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

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

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

Instructions:

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

Solid Waste Monitoring Data Submittal Information

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

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	March 17-19, 2015

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, PG — Senior Hydrogeologist — 336-852-4903

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

Signature — Date: 6-25-15

Affix NC Licensed/ Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 1963 GEOLOGIST DAVID YATES REEDY II 6-25-15

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

WATER QUALITY MONITORING REPORT

FIRST SEMI-ANNUAL 2015 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

June 2015

0839-650614.102

A world of capabilities delivered locally

June 29, 2015 0839-650614.102

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, FIRST SEMI-ANNUAL 2015 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 March 17 - 19, 2015, 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 a sample was not collected at that location.

During the March 2015 event, three 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, cadmium and mercury were determined to be below the statistically calculated background concentrations and no further action is warranted.

At the closed MSW facility, two NC Appendix I volatile organic compounds (VOCs) were reported at concentrations above their respective SWSLs and NC 2L Standards in samples from one or more downgradient compliance monitoring wells during the March 2015 event; benzene in the samples from MW-7 and AMW-1D and 1,4-dichlorobenzene in the sample from MW-7 were detected above SWSLs and groundwater standards. 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. The concentrations of iron and manganese were determined to be below the statistically calculated background concentrations and no further action is warranted.

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 the sample from MW-13 during the March 2015 event. No NC Appendix I constituents were detected at concentrations that exceeded applicable standards in surface water monitoring points during the March 2015 sampling event.

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 approved by NC DENR on May 22, 2013, and is in the process of preparing a 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 September 2015. If you have any questions, please contact the undersigned at 336-852-4903.

Sincerely,
GOLDER ASSOCIATES NC, INC.

David "Dusty" Y. Reedy II, PG
Senior Hydrogeologist

Rachel P. Kirkman, PG
Associate and Senior Consultant

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

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

Greg Wiggins, Manager, Solid Waste Department, 191 Transfer Station Drive, Hendersonville, NC 28791. 828-694-7982 gwiggins@hendersoncountync.org

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1.0 INTRODUCTION

This report summarizes the monitoring results from the March 17 - 19, 2015, 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 (NC DENR).

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); an active transfer station, and a customer convenience center. 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 NC DENR on September 26, 2008. NC DENR 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 NC DENR and submitted a Groundwater Assessment Work Plan to NC DENR 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. 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, NC DENR 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 NC DENR 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 NC DENR 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 NC DENR on April 15, 2013. The ACM was approved by NC DENR 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 NC DENR 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, NC DENR 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 NC DENR 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, NC DENR 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 March 2015 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 March 2015 groundwater surface contour map, the average hydraulic gradient in the shallow aquifer underlying the MSW landfill was calculated to be approximately 0.084 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 73 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 March 2015 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 March 2015 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 NC DENR, 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 March 2015 Groundwater and Surface Water Monitoring Event

Personnel from Golder visited the facility on March 17 - 19, 2015, 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 March 2015 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 March 2015 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 March 20, 2015, in good condition and properly preserved. Groundwater samples from the compliance MSW wells were analyzed for the NC Appendix II list of constituents and the assessment wells were analyzed for the NC Appendix I list of constituents and mercury. Groundwater samples from the closed C&D facility were analyzed for the NC Appendix I list of constituents, 2,4-D, tetrahydrofuran, and indicator parameters specified in Title 15A NCAC 13B.0566. Surface water samples BR-1, BR-2, BR-3, and SW-1, were analyzed for the NC Appendix I list of constituents. Surface water sample TSW-2 was analyzed for the NC Appendix I VOC list only.

2.5 March 2015 Sampling Results for the Closed MSW Landfill

Analytical results for the March 2015 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, three NC Appendix I inorganic constituents (barium, 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 March 2015 monitoring event. Additionally, mercury was detected in the sample from assessment well AMW-2S at a concentration above the SWSL. Four NC Appendix I VOCs (benzene; chlorobenzene; 1,4-dichlorobenzene; and cis-1,2-dichloroethene) were detected above their respective SWSLs in one or more downgradient monitoring wells at the closed MSW landfill during the March 2015 event.

Analytical results for the March 2015 surface water samples at the closed MSW landfill are summarized in Table 6 with available historical data and the field parameters are summarized in Table 7. As presented, two NC Appendix I inorganic constituents (barium and zinc) were detected above SWSLs in samples from surface water monitoring points during the sampling event. No NC Appendix I organic constituents were detected above SWSLs in samples from surface water monitoring points.

As presented on Table 4, three inorganic constituents (barium, beryllium, and zinc) were detected at the TVA Landfill at concentrations above their respective SWSLs in the sample collected from MW-9 during the March 2015 event. No NC Appendix I organic constituents were detected above SWSLs in the sample from MW-9 during the event.

2.6 March 2015 Sampling Results for the Closed C&D Landfill

Analytical results for the March 2015 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.

Three NC Appendix I inorganic constituent (barium, beryllium, and zinc) were reported to be present in the sample from MW-11 at concentrations above their respective SWSLs during the event. Additionally, mercury was detected above the SWSL in the sample from MW-12. The indicator parameter iron was reported at concentrations above the SWSL in samples collected from upgradient well MW-10 and downgradient wells MW-11 and MW-12. Indicator parameter manganese was reported at concentrations above the SWSL in samples collected from MW-11, MW-12, and MW-13. Three NC Appendix I VOCs (acetone, trichlorofluoromethane, and vinyl chloride) were detected in samples from downgradient wells above their respective SWSLs during the March 2015 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 March 2015 groundwater and surface water sampling event. In addition to the field blank, a laboratory-prepared trip blank accompanied the volatile sample containers for the March 2015 sampling event to and from the laboratory. ENCO analyzed the field blank for the NC Appendix II list of parameters plus. The trip blank was analyzed for NC Appendix II VOCs and tetrahydrofuran.

A review of the laboratory data was performed by Golder (Appendix B). Copper was detected in the field blank during the March 2015 groundwater and surface water sampling event and based on an evaluation of the laboratory data, detections of copper from the following samples are considered blank-qualified: MW-5, MW-9, MW-11, and MW-12.

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 4, 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 (GPSs) in samples from monitoring wells at the MSW landfill during the March 2015 monitoring event. Barium was reported in the sample collected from MW-8 and cadmium was reported in the sample from MW-7 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 Standards or GPSs. 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 for the second consecutive event.

As presented on Table 4, two 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 March 2015 event. Benzene was reported in the samples from MW-7 and AMW-1D and 1,4-dichlorobenzene was reported in the sample from MW-7 at concentrations above their respective SWSLs and NC 2L Standards. Vinyl chloride was detected in samples from MW-7 and AMW-1D at estimated concentrations below the SWSL, but above the NC 2L Standard. These detected constituents and concentrations are generally consistent with reported concentrations during recent events at the closed MSW landfill.

As presented in Table 5, silver was detected in surface water sample BR-2 at an estimated concentration below the SWSL, but above the applicable surface water standard during the March 2015 event. As presented in Table 4, cobalt and vanadium were detected at the TVA Landfill at estimated concentrations below their respective SWSLs, but above their GPSs in the sample from MW-9 during the event.

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

As presented in Table 8, no NC Appendix I inorganic constituents were reported in samples collected from one or more downgradient monitoring wells at concentrations that exceeded their SWSLs and applicable groundwater standards at the C&D landfill during the March 2015 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. Vanadium was reported in the samples from upgradient well MW-10 and downgradient wells MW-11 and MW-12 at concentrations below the SWSL, but above the GWPS during the March 2015 event. Cobalt and vanadium have been detected at similar concentrations in samples from these wells 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 MW-10 and downgradient monitoring wells MW-11 and MW-12. The indicator parameter manganese was reported at concentrations above the SWSL and NC 2L Standard in samples collected from all three of the C&D 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 8, vinyl chloride was reported at a concentration that exceeded the SWSL and NC 2L Standard in the sample from MW-13 during the March 2015 event at the closed C&D landfill. Vinyl chloride was also detected below the SWSL, but above the NC 2L Standard in the samples from downgradient monitoring wells MW-11 and MW-12. No other Appendix I VOCs were detected at concentrations above groundwater protection standards in samples collected from wells at the C&D landfill during the March 2015 groundwater sampling event.

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 March 2015 event. The concentrations of barium in the sample collected from MW-8, cadmium in the sample from MW-7, 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, cadmium, and mercury were determined to be below the statistically calculated background concentrations during this event, and therefore; no further action is required.

As discussed above, two inorganic constituents (iron and manganese) were reported above their respective SWSLs and applicable water quality standards in samples from one or more downgradient wells for the C&D landfill during the March 2015 event. The concentrations of iron in the samples collected from MW-11 and MW-12 and manganese in the samples from MW-11, MW-12, and MW-13 were statistically evaluated to determine if the reported concentrations exceeded the facility background concentrations. The statistical worksheets are presented as Appendix C. The concentrations of iron and manganese were determined to be below the statistically calculated background concentrations during this event, and therefore; no further action is required.

5.0 CONCLUSIONS

Due to the continued presence of VOCs above applicable groundwater standards, Henderson County will continue to monitor the uppermost aquifer beneath the MSW in accordance with the requirements of the Assessment Monitoring Program as outlined in Title 15A NCAC 13B.1634. Henderson County is also continuing with groundwater assessment activities as presented in the Work Plan, approved by NC DENR on December 18, 2009. An ACM was approved by NC DENR on May 22, 2013, and is preparing a Corrective Action Plan.

An Alternate Source Demonstration (ASD) was submitted to NC DENR 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 NC DENR 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 September 2015.

6.0 REFERENCES

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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
03/17/15	2332.78	57.04	2189.98	14.26	2190.34	20.32	2210.90	24.97	2179.80	13.29	2176.77	14.00	2169.61	8.05	2173.51	4.07	2200.96	5.46	2200.62	5.14	2174.61	8.16	2172.62	9.45
MEAN	*2332.21*	*57.61*	*2190.20*	*14.04*	*2190.84*	*19.82*	*2209.89*	*25.98*	*2179.16*	*13.93*	*2175.93*	*14.84*	*2169.45*	*8.21*	*2172.62*	*4.96*	*2200.17*	*6.25*	*2200.15*	*5.61*	*2173.54*	*9.23*	*2171.80*	*10.27*
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*	*2200.96*	*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*	*5.46*	*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	--	--
03/17/15	2367.64	36.91	2262.72	45.00	2249.97	50.12	2251.60	44.73	2245.25	14.34
MEAN	*2368.98*	*35.57*	*2262.01*	*40.72*	*2249.08*	*51.01*	*2250.89*	*47.26*	*2244.20*	*15.65*
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

March 2015							
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	1420	2320 / 2200	0.0845	0.15	1.26E-04	73.60
i_2	SSW	1673	2340 / 2200	0.0837	0.15	1.26E-04	72.89
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
	ug/L	03/18/15	0.220	6	ND	ND	ND	0.661 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
	ug/L	03/18/15	5.40	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Barium	ug/L	12/05/94	--	100	134	237	378	528	--	--	--	--	207	--
NC 2L = 700 ug/L	ug/L	02/14/95	--	100	ND	416	439	601	--	--	--	--	205	--
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
	ug/L	03/18/15	1.00	100	42.3 J	27.4 J	535	**710**	538	11.0 J	11.7 J	2.26 J	226	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	
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**	3.2	ND	2.33	1.54	ND
	ug/L	10/29/08	--	1	**4.60**	**5.96**	2.23	**10.2**	**10.7**	**5.45**	**10.7**	2.23	**11.2**	ND
	ug/L	03/24/09	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
	ug/L	03/18/15	0.100	1	0.125 J	ND	0.514 J	0.344 J	0.992 J	ND	ND	ND	1.54	ND
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
	ug/L	03/18/15	0.360	1	ND	ND	**2.18**	ND	1.63	ND	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
	ug/L	03/18/15	1.40	10	ND	ND	7.41 J	2.76 J	2.45 J	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	
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
	ug/L	03/18/15	1.10	10	ND	ND	**2.67 J**	**5.00 J**	**7.67 J**	ND	**1.78 J**	ND	**1.67 J**	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
	ug/L	03/18/15	1.60	10	2.54 B	ND	ND	ND	ND	ND	ND	ND	2.90 B	1.74 J
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
	ug/L	03/18/15	2.10	10	ND	ND	3.32 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	
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
	ug/L	03/18/15	0.170	0.2	ND	ND	ND	ND	ND	ND	**1.49**	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
	ug/L	03/18/15	1.80	50	ND	ND	2.55 J	ND	2.22 J	ND	ND	ND	ND	ND
Selenium	ug/L	12/05/94	--	10	ND	ND	ND	ND	--	--	--	--	ND	--
NC 2L = 20 ug/L	ug/L	02/14/95	--	10	ND	ND	ND	ND	--	--	--	--	ND	--
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
	ug/L	03/18/15	5.00	10	ND	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	
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
	ug/L	03/18/15	1.90	10	ND	ND	4.00 J	ND	2.05 J	ND	ND	ND	ND	ND
Thallium	ug/L	12/05/94	--	5.5	ND	ND	ND	ND	--	--	--	--	ND	--
NC 2L = 0.28 ug/L	ug/L	02/14/95	--	5.5	ND	ND	ND	ND	--	--	--	--	ND	--
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
	ug/L	03/18/15	0.110	5.5	ND	ND	**0.281 J**	**0.605 J**	**0.514 J**	ND	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	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/18/15	2.10	100	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	
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
	ug/L	03/18/15	1.40	25	ND	ND	ND	ND	ND	ND	**7.02** J	ND	**1.53** J	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
	ug/L	03/18/15	3.80	10	5.35 J	7.19 J	9.75 J	21.7	4.58 J	6.15 J	6.87 J	ND	12.2	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
	ug/L	03/18/15	1.2	100	ND	29 J	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	
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
	ug/L	03/18/15	3.5	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
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
	ug/L	03/18/15	0.15	1	ND	ND	**1.3**	ND	ND	**1.2**	0.60 J	ND	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
	ug/L	03/18/15	1.5	100	ND	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	
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
	ug/L	03/18/15	0.17	1	ND	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
	ug/L	03/18/15	0.17	3	ND	ND	10	ND	1.4 J	6.4	2.2 J	ND	ND	ND
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
	ug/L	03/18/15	0.23	10	ND	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	
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
	ug/L	03/18/15	0.19	5	ND	ND	0.77 J	ND	ND	0.71 J	ND	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
	ug/L	03/18/15	0.19	1	ND	ND	**14**	ND	0.46 J	4.0	1.4	ND	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	09/18/14	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/18/15	0.20	5	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	
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
	ug/L	03/18/15	0.13	5	ND	ND	0.47 J	ND	ND	0.76 J	0.77 J	ND	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
	ug/L	03/18/15	0.21	1	ND	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
	ug/L	03/18/15	0.21	5	ND	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	
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
	ug/L	03/18/15	0.15	5	ND	ND	5.3	0.63 J	ND	1.2 J	1.2 J	ND	ND	ND
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	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
	ug/L	03/18/15	0.21	5	ND	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
	ug/L	03/18/15	0.10	1	ND	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	
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
	ug/L	03/18/15	0.13	1	ND	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
	ug/L	03/18/15	0.88	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
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
	ug/L	03/18/15	0.27	10	ND	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	
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
	ug/L	03/18/15	0.23	1	ND	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
	ug/L	03/18/15	1.3	100	ND	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
	ug/L	03/18/15	1.1	100	ND	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	
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
	ug/L	03/18/15	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
	ug/L	03/18/15	0.17	1	ND	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
	ug/L	03/18/15	0.14	1	ND	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	
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
	ug/L	03/18/15	0.12	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
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
	ug/L	03/18/15	0.15	1	ND	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
	ug/L	03/18/15	0.14	1	ND	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	
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
	ug/L	03/18/15	0.24	1	ND	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
	ug/L	03/18/15	0.95	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
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
	ug/L	03/18/15	0.32	1	ND	ND	**0.88 J**	ND	ND	**0.46 J**	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	
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
	ug/L	03/18/15	0.45	5	ND	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	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/18/15	1.4	10	ND	ND	ND	ND	--	--	--	--	--	ND
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	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/18/15	2.1	10	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	
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	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	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	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/18/15	1.3	10	ND	ND	ND	ND	--	--	--	--	--	ND
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
	ug/L	03/18/15	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	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/18/15	3.1	10	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	
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	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/18/15	1.4	10	ND	ND	ND	ND	--	--	--	--	--	ND
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	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/18/15	1.6	10	ND	ND	ND	ND	--	--	--	--	--	ND
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
	ug/L	03/18/15	0.27	2	ND	ND	ND	ND	--	--	--	--	--	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	--
	S.U.	03/18/15	5.71	6.25	5.93	6.17	6.36	6.20	6.21	6.23	4.97
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	--
	uS/cm	03/18/15	191	157	716	805	548	700	310	143	160
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	--
	Celsius	03/18/15	14.2	12.7	16.2	16.5	14.8	14.7	10.9	13.8	13.5
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	--
	NTU	03/18/15	71.3	28.5	61.2	23.1	31.8	2.43	43.2	3.15	12.1

Notes:

NTU = Nephelometric Turbidity Units
uS/cm = microsiemens per centimeter
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
	ug/L	03/18/15	0.220	6	ND	0.681 J	0.230 J	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
	ug/L	03/18/15	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
	ug/L	03/18/15	1.00	100	49.7 J	251	169	41.0 J	--	--	ND
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
	ug/L	03/18/15	0.100	1	ND	ND	0.163 J	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
	ug/L	03/18/15	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
	ug/L	03/18/15	1.40	10	ND	2.23 J	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
	ug/L	03/18/15	1.10	10	2.58 J	5.51 J	2.75 J	1.62 J	--	--	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
	ug/L	03/18/15	1.60	10	ND	ND	ND	ND	--	--	1.74 J

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
	ug/L	03/18/15	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
	ug/L	03/18/15	1.80	50	ND	2.24 J	1.99 J	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	
	ug/L	03/18/15	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	
	ug/L	03/18/15	1.90	10	ND		**2.16**	**J**	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	5.5	ND	ND	ND	ND	--	--	ND
	ug/L	03/18/15	0.110	5.5	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
	ug/L	03/18/15	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
	ug/L	03/18/15	3.80	10	ND	4.48 J	34.2	3.83 J	--	--	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
	ug/L	03/18/15	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	
	ug/L	03/18/15	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	
	ug/L	03/18/15	0.17	3	ND		0.70	J	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
	ug/L	03/18/15	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
	ug/L	03/18/15	0.19	5	ND	0.60 J	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
	ug/L	03/18/15	0.19	1	ND	2.2	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
	ug/L	03/18/15	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
	ug/L	03/18/15	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
	ug/L	03/18/15	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
	ug/L	03/18/15	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
	ug/L	03/18/15	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
	ug/L	03/18/15	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
	ug/L	03/18/15	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
	ug/L	03/18/15	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
	ug/L	03/18/15	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
	S.U.	03/18/15	6.86	7.16	6.88	7.52	dry	6.69
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
	uS/cm	03/18/15	323	366	2766	297	dry	2516
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
	Celsius	03/15/15	12.7	13.0	14.0	8.97	dry	9.55
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
	NTU	03/18/15	10.4	6.35	3.19	11.1	dry	7.45
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
	mV	03/18/15	26.8	-40.9	7.0	76.0	dry	53.4
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
	mg/L	03/18/15	11.15	9.01	8.17	10.03	dry	8.71

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
	ug/L	03/18/15	0.220	6	0.653 J	0.742 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	--
	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
	ug/L	03/18/15	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
	ug/L	03/18/15	1.00	100	8.07 J	155	22.4 J	14.5 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	
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
	ug/L	03/18/15	0.100	1	0.143 J	1.37	0.135 J	ND	ND
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
	ug/L	03/18/15	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
	ug/L	03/18/15	1.40	10	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	
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
	ug/L	03/18/15	1.10	10	ND	**1.29 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
	ug/L	03/18/15	1.60	10	ND	4.30 B	1.95 B	ND	1.74 J
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
	ug/L	03/18/15	2.10	10	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	
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
	ug/L	03/18/15	0.170	0.2	ND	ND	0.227	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
	ug/L	03/18/15	1.80	50	ND	14.3 J	ND	ND	ND
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
	ug/L	03/18/15	5.00	10	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	
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
	ug/L	03/18/15	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
	ug/L	03/18/15	0.110	5.5	0.251 J	0.202 J	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
	ug/L	03/18/15	1.40	25	**1.62 J**	**2.39 J**	**1.87 J**	ND	ND
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
	ug/L	03/18/15	3.80	10	ND	265	9.40 J	5.27 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	
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
	ug/L	03/18/15	22.0	300	**659**	**5720**	**880**	214 J	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
	ug/L	03/18/15	1.10	50	24.4 J	**593**	**124**	**74.0**	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
	ug/L	03/18/15	1.2	100	ND	160	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
	ug/L	03/18/15	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
	ug/L	03/18/15	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
	ug/L	03/18/15	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
	ug/L	03/18/15	0.19	1	ND	ND	ND	0.55 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
	ug/L	03/18/15	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
	ug/L	03/18/15	0.21	5	ND	ND		1.7	J	2.4	J	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
	ug/L	03/18/15	0.15	5	ND	0.53	J	1.6	J	2.5	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	
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
	ug/L	03/18/15	0.13	1	ND	ND	ND	ND	ND
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
	ug/L	03/18/15	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
	ug/L	03/18/15	1.3	100	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	
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
	ug/L	03/18/15	0.17	1	ND	ND	0.46 J	ND	ND
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
	ug/L	03/18/15	0.14	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	
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
	ug/L	03/18/15	0.12	1	ND	ND	ND	ND	ND
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
	ug/L	03/18/15	0.15	1	ND	ND	ND	0.41 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	
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
	ug/L	03/18/15	0.24	1	ND	ND	ND	1.5	ND
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
	ug/L	03/18/15	0.32	1	ND	**0.85 J**	**0.86 J**	**2.5**	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	
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
	ug/L	03/18/15	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
	ug/L	03/18/15	0.80	--	ND	9.8	6.3	6.8	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
	ug/L	03/18/15	0.27	2	ND	ND	ND	0.82 J	ND
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
	mg/L	03/18/15	2.2	--	2.3 J	60	19	5.6	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	
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
	mg/L	03/18/15	10	--	38	330	210	150	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
	mg/L	03/18/15	2.9	250	ND	78 J	25 J	17 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	14	--	ND	84.0	94.0	110	ND
	mg/L	09/18/14	14	--	ND	96	83	110	ND
	mg/L	03/18/15	14	--	14 J	120	130	120	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.

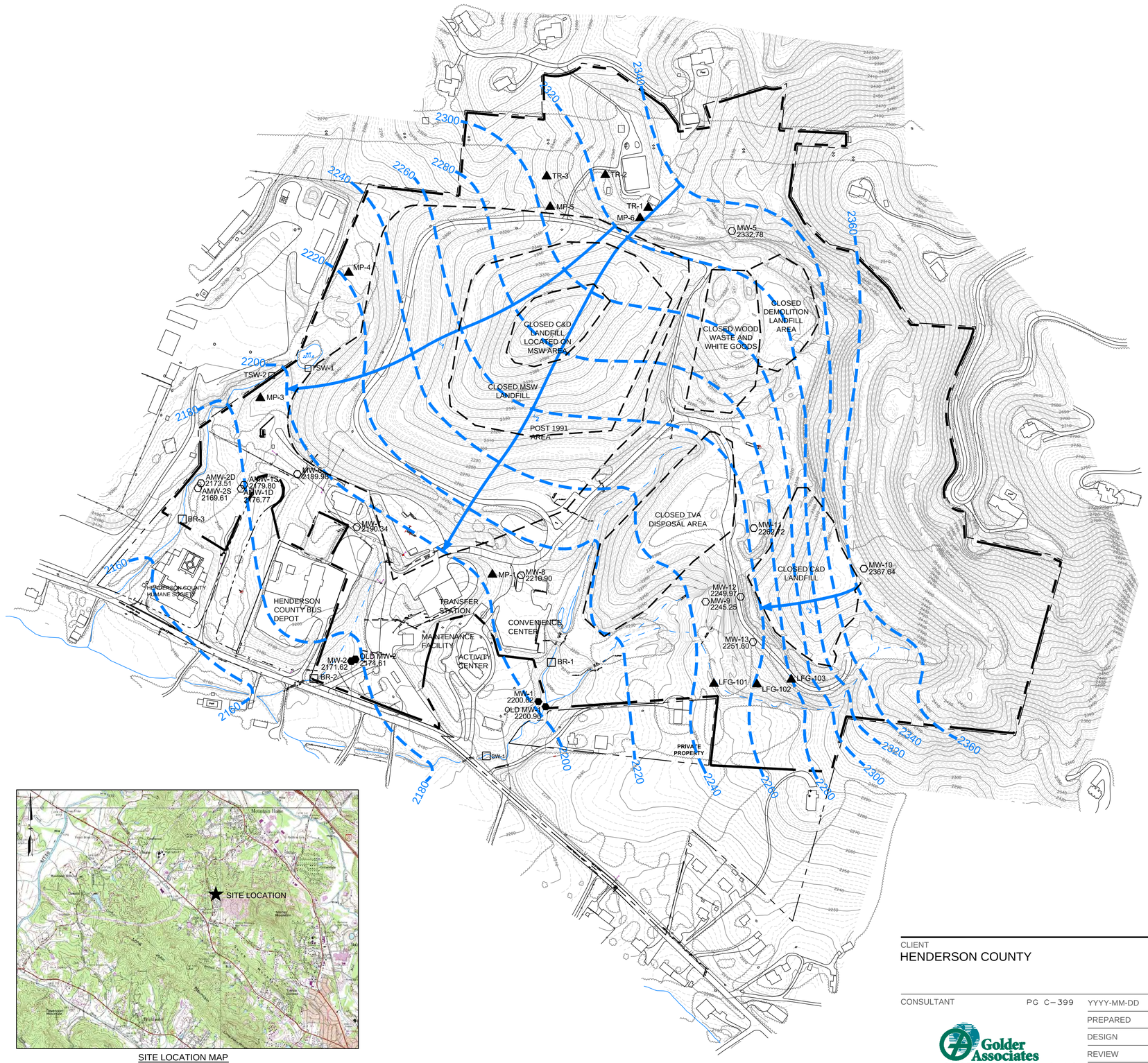
TABLE 9

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
	S.U.	03/18/15	6.31	5.27	5.70	5.73
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
	uS/cm	03/18/15	40	1034	367	277
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
	Celsius	03/18/15	14.2	14.2	14.4	13.6
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
	NTU	03/18/15	14.2	46.9	43.2	11.7

Notes:
NTU = Nephelometric Turbidity Units
uS/cm = microsiemens per centimeter
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 MARCH 17, 2015.
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 NC, INC.

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

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

TITLE
GROUNDWATER SURFACE CONTOUR MAP
MARCH 17, 2015

PROJECT No.	PHASE	Rev.	DRAWING
0839650614	102	0	1

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

1 in

Path: ---- | File Name: 0839650614D01.dwg

APPENDIX A
GROUNDWATER AND SURFACE WATER SAMPLING LOGS

DATE: 3-18-15

Golder Associates

GROUNDWATER SAMPLING LOG

Project Name: Henderson County LF **Project No./** '0839650614.102
Well ID: MW-5 (Background) **A. Stoddard, D. Childress**
Well Diameter: 2 inches **Int. Depth to Water:** 57.04 feet
Depth to Bottom: 74.00 feet **Total Water Column:** 16.960 feet
Well Volume: 2.760 gallons **3x Well Volume:** 8.28 gallons
Well Location: On hill above green waste area
Equipmer ~~YSI Pro I YSI ProPlus~~, water level meter, Hach 2100Q turbidimeter, disposable bailer, Oakton 10

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Temp. (°C)	Vol. (gallons)
1250	5.86	0.181	0.27	14.5	0
1258	5.55	0.1696	71000	14.3	2.76
1305	5.605	0.1607	71000	14.2	5.52
1314	5.62	0.156	71000	14.1	8.28
	Allow to Recharge @ 1314				
1455	5.71	0.191	71.3	14.2	—
	Sampled @ 1455				

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

Signature: Amanda Stoddard **Date:** 3-18-15

QA/QC Sign Off: Paul K Reed **Date:** 5-20-15

DATE: 3-18-15

Golder Associates

GROUNDWATER SAMPLING LOG

Project Name: Henderson County LF
Project No./ '0839650614.102
Well ID: MW-6
A. Stoddard, D. Childress
Well Diameter: 2 inches
Int. Depth to Water: 14.26 feet
Depth to Bottom: 19.26 feet
Total Water Column: 5.00 feet
Well Volume: 0.80 gallons
3x Well Volume: 2.40 gallons
Well Location: Along entrance road, behind fence
Equipmer ~~YSI Pro I YSI ProPlus~~, water level meter, Hach 2100Q turbidimeter, disposable bailer, Oakton 10

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Temp. (°C)	Vol. (gallons)
1418	6.40	0.152	236	14.4	0
1426	5.91	0.156	>1000	14.0	0.80
1433	5.91	0.143	>1000	14.4	1.60
1437	6.92	0.136	>1000	14.1	2.40
	Allow to Recharge @ 1437				
3-19-15 0835	6.25	0.157	28.5	12.7	—
	Sampled @ 0835				

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

Signature: Anna Stoddard **Date:** 3-19-15

QA/QC Sign Off: [signature] **Date:** 5-20-15

DATE: 3-19-15

Golder Associates

GROUNDWATER SAMPLING LOG

Project Name: Henderson County LF
Project No./ '0839650614.102
Well ID: MW-7
A. Stoddard, D. Childress
Well Diameter: 2 inches
Int. Depth to Water: 20.32 feet
Depth to Bottom: 28.11 feet
Total Water Column: 7.79 feet
Well Volume: 1.26 gallons
3x Well Volume: 3.78 gallons
Well Location: Next to saltshed
Equipmer ~~YSI Pro I~~ *YSI ProPlus, water level meter, Hach 2100Q turbidimeter, disposable bailer*

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Temp. (°C)	Vol. (gallons)
0750	5.93	0.587	7.19	15.6	0
0752	5.93	0.615	20.9	16.0	1.26
0755	6.02	0.700	41.0	15.9	2.52
0800	5.93	0.716	61.2	16.2	3.78
		sampled @ 0800			

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

Signature: Anne Stoddard **Date:** 3-19-15

QA/QC Sign Off: Molly Reap **Date:** 5-20-15

DATE: 3-18-15

Golder Associates

GROUNDWATER SAMPLING LOG

Project Name: Henderson County LF
Project No./ '0839650614.102
Well ID: MW-8 (MS/MSD)
A. Stoddard, D. Childress
Well Diameter: 2 inches
Int. Depth to Water: 24.97 feet
Depth to Bottom: 31.30 feet
Total Water Column: 6.33 feet
Well Volume: 1.03 gallons
3x Well Volume: 3.09 gallons
Well Location: Next to tire drop-off area
Equipmer ~~YSI Pro-I YSI ProPlus~~, water level meter, Hach 2100Q turbidimeter, disposable bailer, Oakton 10

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Temp. (°C)	Vol. (gallons)
1330	6.28	0.992	244	16.9	0
1335	6.31	1.030	153	16.1	1.03
1338	6.21	0.993	178	16.1	2.06
1342	6.11	0.904	177	16.3	3.09
	Allow to Recharge @ 1342				
1525	6.17	0.805	23.1	16.5	—
	Sampled @ 1525				

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

Signature: [signature] **Date:** 3-18-15

QA/QC Sign Off: [signature] **Date:** 5-20-15

DATE: 3-18-15

Golder Associates

GROUNDWATER SAMPLING LOG

Project Name: Henderson County LF
Project No./ '0839650614.102
Well ID: MW-9
A. Stoddard, D. Childress
Well Diameter: 2 inches
Int. Depth to Water: 14.34 feet
Depth to Bottom: 27.94 feet
Total Water Column: 13.60 feet
Well Volume: 2.21 gallons
3x Well Volume: 6.63 gallons
Well Location: Down hill from MW-12
Equipmer ~~YSI Pro I~~ *~~YSI ProPlus~~, water level meter, Hach 2100Q turbidimeter, disposable bailer, Oakton 10*

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Temp. (°C)	Vol. (gallons)
1138	4.83	0.182	20.9	13.2	0
1143	4.75	0.180	143	13.1	2.21
1147	4.86	0.170	39.9	13.2	4.42
1152	4.97	0.160	12.1	13.5	6.63
		Sampled @ 1152			

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

Signature: Anna Stoddard **Date:** 3-18-15

QA/QC Sign Off: [signature] **Date:** 5-20-15

DATE: 3-17-15

Golder Associates

GROUNDWATER SAMPLING LOG

Project Name: *Henderson County LF* **Project No./** '0839650614.102
Well ID: MW-10 **A. Stoddard**, D. Childress
Well Diameter: 2 inches **Int. Depth to Water:** 36.91 feet
Depth to Bottom: 40.00 feet **Total Water Column:** 3.09 feet
Well Volume: 0.50 gallons **3x Well Volume:** 1.50 gallons
Well Location: On hill above convenience center
Equipmer ~~YSI Pro-I YSI ProPlus~~, *water level meter, Hach 2100Q turbidimeter, disposable bailer*, YSI 556

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Temp. (°C)	Vol. (gallons)
0815	7.07	0.077	177	12.6	0
0818	7.71	0.034	71000	13.3	0.50
0820	6.89	0.032	71000	13.3	1.00
0823	6.51	0.030	725	13.3	1.5
	Allow to Recharge @0823				
1100	6.31	0.040	14.2	14.2	—
		Sampled 1100			

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

Signature: [signature] **Date:** 3-17-15

QA/QC Sign Off: [signature] **Date:** 5-20-15

DATE: 3-18-15

GROUNDWATER SAMPLING LOG

Project Name: Henderson
Project No./Phase No.: 083960500.14
Well ID: MW-11
Sampler(s): A. Stoddard
Well Diameter: 2 inches
Initial Depth to Water: 45.00 feet
Depth to Bottom: 58.49 feet
Water Column Thickness: 13.49 feet
Pumping Rate: 200 mL/min.
System Volume: ~~1000~~ 500 mL
Well Location: ~~538~~ Flush mount
Equipment: YSI ~~ProPlus,~~ Hach 2100Q turbidimeter, WL meter,
Pump Type: portable bladder

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Dis O_2 (mg/L)	Temp. (°C)	ORP (millivolts)	DTW (feet)
0945	5.50	0.048	98.0	0.00	13.4	98.5	45.07
0949	5.33	0.838	206	1.81	14.6	99.2	46.91
0953	5.30	0.955	188	0.75	14.7	98.5	47.00
0957	5.29	1.025	87.0	0.51	14.4	103.8	47.01
1001	5.28	1.037	64.2	0.47	14.2	105.5	47.03
1005	5.27	1.034	46.9	0.44	14.2	107.3	47.05
			Sampled @ 1005				

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

Signature: [signature] **Date:** 3-18-15

QA/QC Sign Off: [signature] **Date:** 5-20-15

DATE: 3-18-15

Golder Associates

GROUNDWATER SAMPLING LOG

Project Name: *Henderson County LF* **Project No./** '0839650614.102
Well ID: MW-12 **A. Stoddard, D. Childress**
Well Diameter: 2 inches **Int. Depth to Water:** 50.12 feet
Depth to Bottom: ~~62.00~~ 61.67 feet **Total Water Column:** ~~11.88~~ feet 11.55
Well Volume: ~~2.90~~ 1.88 gallons **3x Well Volume:** ~~8.705~~ .64 gallons
Well Location: Along access road to convenience center
Equipmer ~~YSI Pro I~~ *YSI ProPlus, water level meter, Hach 2100Q turbidimeter, disposable bailer* YSI 556

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Temp. (°C)	Vol. (gallons)	
1025	5.55	0.252	37.4	14.2	~~2.90~~	0
1037	5.02	0.310	142	14.4	~~2.90~~	1.88
1041	5.72	0.386	91.8	14.4	~~5.80~~	3.76
1046	5.80	0.388	96.0	14.4	~~5.70~~	5.64
	Allow to Recharge @ 1046					
1115	5.70	0.307	43.2	14.4	—	
		sampled 1115				

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

Signature: Anna Stoddard **Date:** 3-18-15

QA/QC Sign Off: [signature] **Date:** 5-20-15

Golder Associates

DATE: 3-18-15

GROUNDWATER SAMPLING LOG

Project Name: *Henderson County LF* **Project No./** '0839650614.102
Well ID: MW-13 **A. Stoddard**
Well Diameter: 2 inches **Int. Depth to Water:** 44.73 feet
Depth to Bottom: 91.11 feet **Total Water Column:** 46.38 feet
Well Volume: 7.50 gallons **3x Well Volume:** 22.50 gallons
Well Location: Uphill along entrance road to convenience center
Equipmer YSI Pro I *YSI ProPlus, water level meter, Hach 2100Q turbidimeter, disposable bailer*

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Temp. (°C)	Vol. (gallons)
0842	5.90	0.259	7.18	13.0	0
0902	5.76	0.263	4.29	13.54	7.50
0921	5.75	0.201	12.77	13.1	15.00
0940	5.73	0.217	11.7	13.6	22.50
		SAMPLED @ 0940			

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

Signature: [signature] **Date:** 3-18-15

QA/QC Sign Off: [signature] **Date:** 5-20-15

DATE: 3-17-15

GROUNDWATER SAMPLING LOG

Project Name: Henderson County LF
Project No./ '0839650614.102
Well ID: AMW-18
A. Stoddard D. Childress
Well Diameter: 2 inches
Int. Depth to Water: 13.29 feet
Depth to Bottom: 29.01 feet
Total Water Column: 29.01 feet
Well Volume: 2.526 gallons
3x Well Volume: 7.68 gallons
Well Location: Nested with AMW-1D behind animal Shelter
Equipmer YSI Pro I *YSI ProPlus, water level meter, Hach 2100Q turbidimeter, disposable bailer*

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Temp. (°C)	Vol. (gallons)
1022	6.10	0.223	1.105	14.9	0
1028	5.91	0.281	14.0	14.3	2.52
1031	6.03	0.428	18.7	14.2	5.12
1037	6.36	0.548	31.8	14.8	7.68
		sampled @ 1037			

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

Signature: [signature] **Date:** 3-17-15

QA/QC Sign Off: [signature] **Date:** 5-20-15

DATE: 3-17-15

Golder Associates

GROUNDWATER SAMPLING LOG

Project Name: *Henderson County LF* **Project No./** '0839650614.102
Well ID: AMW-1D **A. Stoddard** D. Childress
Well Diameter: 2 inches **Int. Depth to Water:** 14.00 feet
Depth to Bottom: 62.88 feet **Total Water Column:** 48.88 feet
Well Volume: 7.96 gallons **3x Well Volume:** _____ gallons
Well Location: In clearing along entrance Road near animal Shelter
Equipmer YSI Pro I *YSI ProPlus, water level meter, Hach 2100Q turbidimeter, disposable bailer*

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Temp. (°C)	Vol. (gallons)
1616	6.56	0.793	1.73	15.5	0
1633	5.99	0.612	2.26	14.80	7.96
1655	6.33	0.730	3.39	15.5	15.92
1711	6.20	0.700	2.43	15.7	23.88
		Sampled @			

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

Signature: Anna Stoddard **Date:** 3-17-15

QA/QC Sign Off: Paul G Rady **Date:** 5-20-15

DATE: 3-18-15

Golder Associates

GROUNDWATER SAMPLING LOG

Project Name: *Henderson County LF* **Project No./** '0839650614.102
Well ID: AMW-23 **A. Stoddard** D. Childress
Well Diameter: 2 inches **Int. Depth to Water:** 8.05 feet
Depth to Bottom: 25.30 feet **Total Water Column:** 17.25 feet
Well Volume: 2.80 gallons **3x Well Volume:** 8.40 gallons
Well Location: In treeline behind animal shelter
Equipmer YSI Pro I *YSI ProPlus, water level meter, Hach 2100Q turbidimeter, disposable bailer*

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Temp. (°C)	Vol. (gallons)
1645	6.88	0.225	4.80	10.8	0
1650	6.26	0.251	82.4	10.8	2.80
1655	6.14	0.318	45.0	11.2	5.60
1700	6.21	0.310	43.2	10.9	8.40
		sampled @ 1700			

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

Signature: Anna Stoddard **Date:** 3-18-15

QA/QC Sign Off: Paul G Reed **Date:** 3-20-15

DATE: 3-18-15

Golder Associates

GROUNDWATER SAMPLING LOG

Project Name: Henderson County LF **Project No./** '0839650614.102
Well ID: AMW-2D **A. Stoddard** D. Cardross
Well Diameter: 2 inches **Int. Depth to Water:** 4.07 feet
Depth to Bottom: 84.05 feet **Total Water Column:** 79.98 feet
Well Volume: 13.00 gallons **3x Well Volume:** 39.00 gallons
Well Location: Nested with AMW-2S in woods behind animal shelter
Equipmer ~~YSI Pro I~~ YSI ProPlus, water level meter, Hach 2100Q turbidimeter, disposable bailer, Oakton 10

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Temp. (°C)	Vol. (gallons)
1640	8.160	0.147	0.83	9.96	0
1700	6.63	0.142	3.75	13.6	13.00
1728	6.59	0.146	3.95	13.5	26.00
1750	6.23	0.143	3.15	13.8	39.00
	sampled @ 1750				

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

Signature: Anne Stoddard **Date:** 3-18-15

QA/QC Sign Off: [signature] **Date:** 5-20-15

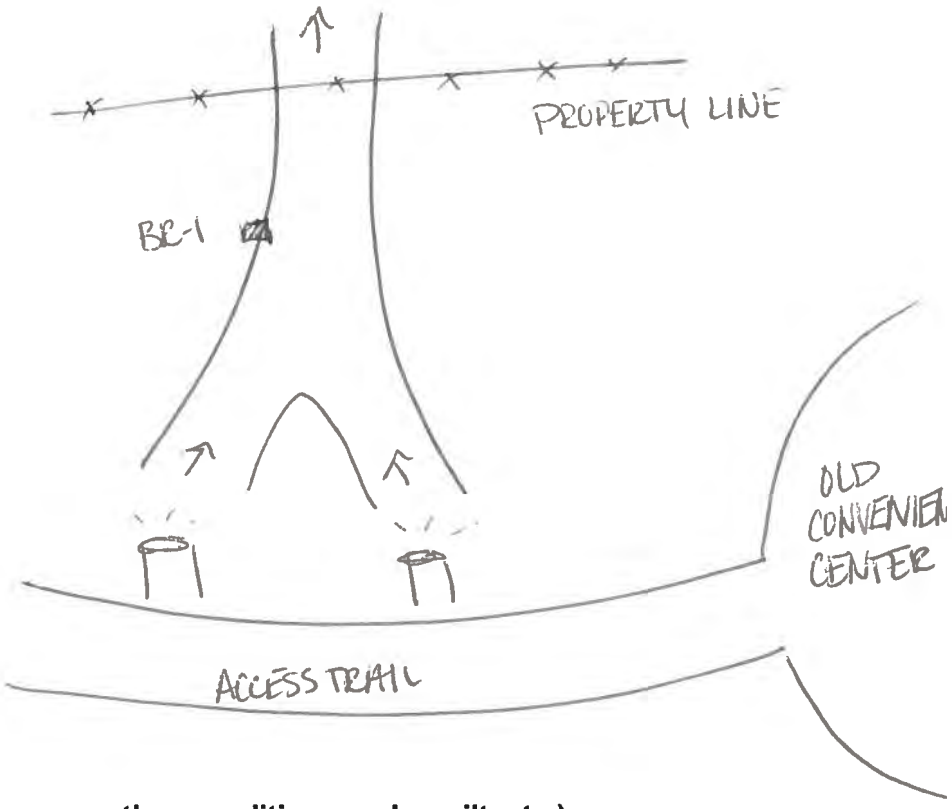
DATE: 3-18-15

SURFACE WATER SAMPLING LOG

Project Name: Henderson County LF **Project No./Phase No.:** 0839650614.102
Sample ID: BR-1 **Sampler(s):** A. Stoddard, D. Childress
Sampling Location:
Equipment: YSI ProPlus, Hach 2100Q Turbidimeter

Time	1550
pH s.u.	6.86
Cond. mS/cm	0.323
Turb. ntu	10.4
Dis. O_2 mg/L	11.15
Temp. °C	12.7
ORP mv	216.8

Surface Water Sampling Location Sketch



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

Signature: Andrew Stoddard **Date:** 3-18-15

QA/QC Sign Off: [signature] **Date:** 5-20-15

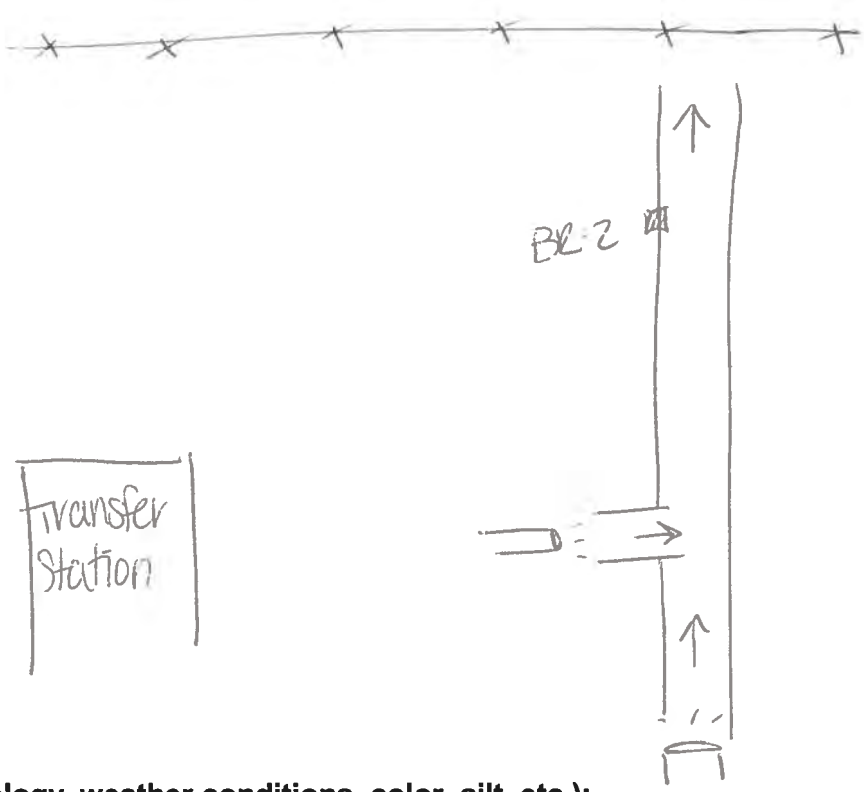
DATE: 3-18-15

SURFACE WATER SAMPLING LOG

Project Name: *Henderson County LF* **Project No./Phase No.:** *0839650614.102*
Sample ID: ~~BR-2~~ **Sampler(s):** *A. Stoddard*
Sampling Location: stream exiting property near old entrance
Equipment: *YSI ProPlus, Hach 2100Q Turbidimeter*

Time	1615
pH s.u.	7.16
Cond. mS/cm	0.346
Turb. ntu	6.35
Dis. O_2 mg/L	9.01
Temp. °C	13.0
ORP mv	-40.9

Surface Water Sampling Location Sketch



Comments (sample methodology, weather conditions, color, silt, etc.):
SDS, cloudy, calm

Signature: Anne Stoddard **Date:** 3-18-15

QA/QC Sign Off: [signature] **Date:** 5-20-15

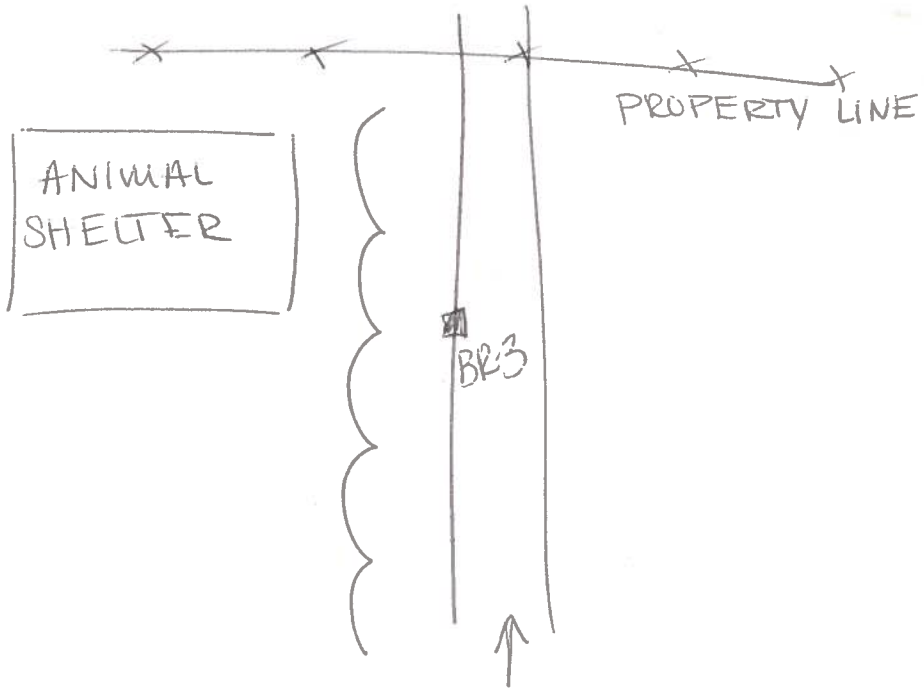
DATE: 3-17-15

SURFACE WATER SAMPLING LOG

Project Name: Henderson County LF **Project No./Phase No.:** 0839650614.102
Sample ID: BR-3 **Sampler(s):** A. Stoddard
Sampling Location: In woods behind animal shelter @ property line
Equipment: YSI ProPlus, Hach 2100Q Turbidimeter

Time	1720
pH s.u.	6.88
Cond. mS/cm	2.766
Turb. ntu	3.19
Dis. O_2 mg/L	8.17
Temp. °C	14.0
ORP mv	7.0

Surface Water Sampling Location Sketch



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

Signature: Laura Stoddard **Date:** 3-17-15

QA/QC Sign Off: Phil Reedy **Date:** 5-20-15

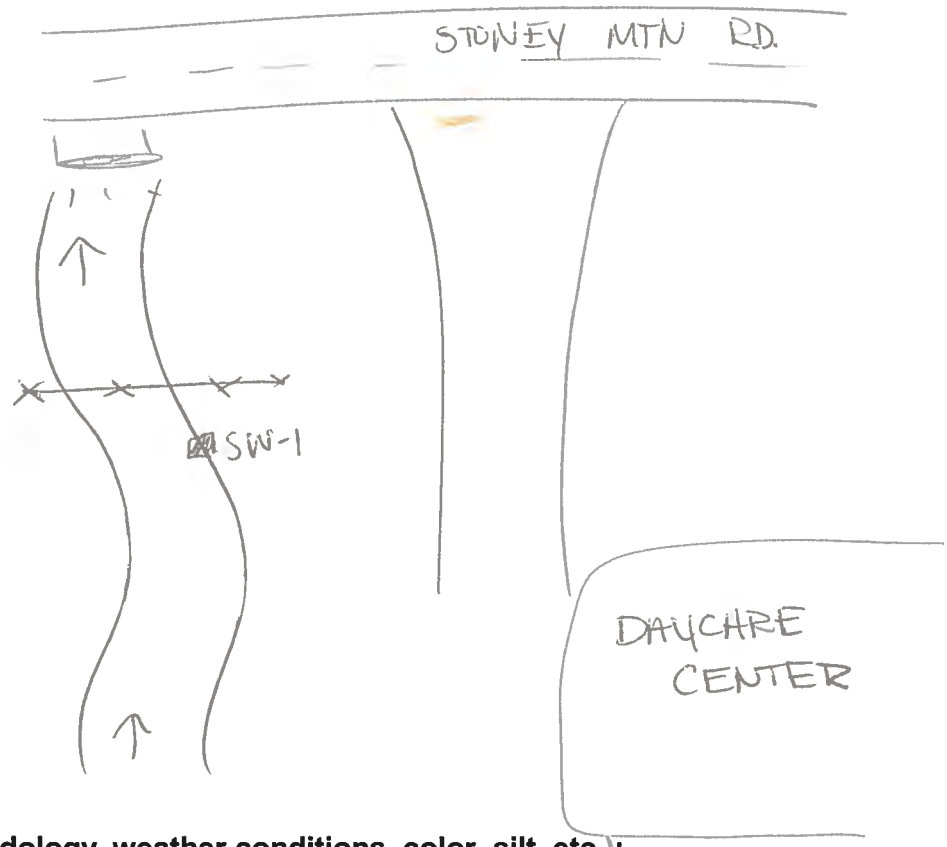
DATE: 3-19-15

SURFACE WATER SAMPLING LOG

Project Name: *Henderson County LF* **Project No./Phase No.:** *0839650614.102*
Sample ID: SW-1 **Sampler(s):** *A. Stoddard*
Sampling Location: Stream exiting property near school building
Equipment: *YSI ProPlus, Hach 2100Q Turbidimeter*

Time	1125
pH s.u.	7.52
Cond. mS/cm	0.297
Turb. ntu	11.1
Dis. O_2 mg/L	10.03
Temp. °C	8.97
ORP mv	76.0

Surface Water Sampling Location Sketch



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

Signature: [signature] **Date:** 3-19-15

QA/QC Sign Off: [signature] **Date:** 5.2015

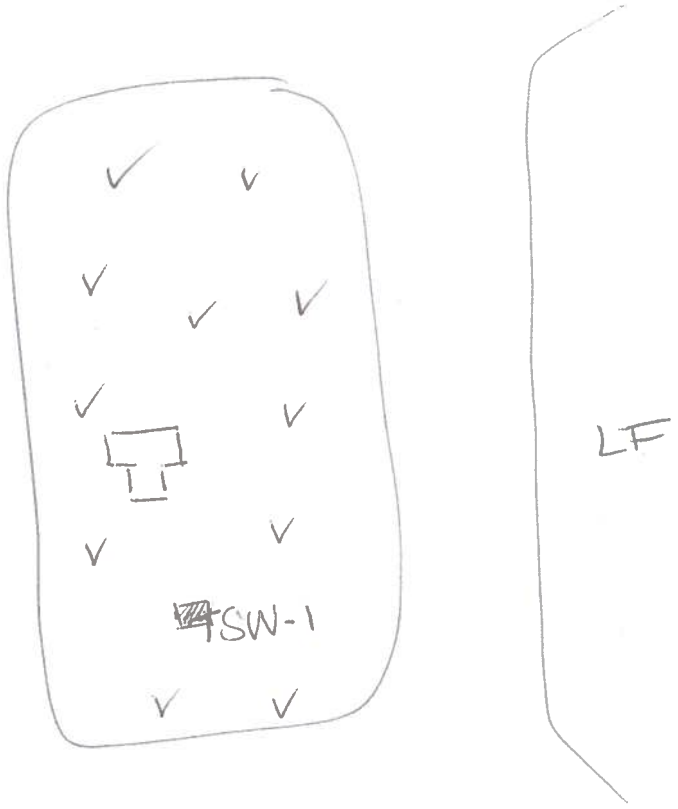
DATE: 3-19-15

SURFACE WATER SAMPLING LOG

Project Name: Henderson County LF **Project No./Phase No.:** 0839650614.102
Sample ID: TSW-1 **Sampler(s):** A. Stoddard
Sampling Location: Wetland Sed pond
Equipment: YSI ProPlus, Hach 2100Q Turbidimeter

Time	0925
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.):
40's, cloudy, raining
DRY/ NO FLOW, NOT SAMPLED

Signature: Anne Stoddard **Date:** 3-19-15

QA/QC Sign Off: [signature] **Date:** 5-20-15

DATE: 3-19-15

SURFACE WATER SAMPLING LOG

Project Name: Henderson County LF **Project No./Phase No.:** 0839650614.102
Sample ID: TSW-2 **Sampler(s):** A. Stoddard
Sampling Location: Stream below TSW-1
Equipment: YSI ProPlus, Hach 2100Q Turbidimeter

Time	0910
pH s.u.	6.69
Cond. mS/cm	2.516
Turb. ntu	7.45
Dis. O_2 mg/L	8.71
Temp. °C	9.55
ORP mv	53.4

Surface Water Sampling Location Sketch

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

Signature: Anne Stoddard **Date:** 3-19-15

QA/QC Sign Off: [signature] **Date:** 5-20-15

APPENDIX B

MARCH 2015 GROUNDWATER AND SURFACE WATER CERTIFICATE-OF-ANALYSIS, CHAIN-OF-CUSTODY FORMS AND LABORATORY DATA REVIEW

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

www.encolabs.com

Wednesday, May 20, 2015

Golder Associates, Inc. (GO007)

Attn: Dusty Reedy

5B Oak Branch Drive

Greensboro, NC 27407

RE: Laboratory Results for
Project Number: 08396506014.102, Project Name/Desc: Henderson Co. LF
ENCO Workorder(s): C502186

Dear Dusty Reedy,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Friday, March 20, 2015.

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 122.

www.encolabs.com

PROJECT NARRATIVE

Date: 20 May 2015
Client: Golder Associates, Inc. (GO007)
Project: Henderson Co. LF
Lab ID: C502186

Overview

This report is an amendment to the original report dated 03 April 2015 for this work order. This report was revised, at the client's request to remove the extraneous analyses from TSW-2.

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 Trichloroethene was outside of control limits for the 8260B MS and/or MSD samples. The QC batches were approved based on acceptable LCS recovery of this analyte.

Precision between duplicate spikes of 2,4,5-TP (Silvex) and 2,4-D exceeded acceptance criteria for the 8151A MS and MSD samples; however, the individual recoveries were within control limits. The QC batches were approved based on acceptable LCS recovery of these analytes and completeness of the QC data.

The spike recoveries of Manganese and Mercury were outside of control limits for the 6010C and 7470A (respectively) MS, MSD, and/or Post spike samples. The QC batches were approved based on acceptable LSC recovery of these elements.

The spike recovery of Sulfide was outside of control limits for the MS and MSD samples. The QC batch was approved based on acceptable LCS recovery of this analyte.

The 8270D Continuing Calibration Verification sample (CCV) exhibited a high bias for 3-Nitroanaline and Hexachloropropene; however, these analytes were not detected in the associated samples, reducing the impact of the deviations. The CCV exhibited a low bias for 1-Naphthylamine, 2-Naphthylamine, and 4-Aminobiphenyl. The reported results should be considered minimum estimates.

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

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 4501-MW5 (Background)	Lab ID: C502186-01	Sampled: 03/18/15 14:55	Received: 03/20/15 11:30

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	09/14/15		03/24/15	10:04	3/26/2015 13:25
EPA 6020A	09/14/15		03/24/15	10:14	3/31/2015 12:10
EPA 7470A	04/15/15		04/01/15	10:21	4/1/2015 16:26
EPA 8081B	03/25/15	05/04/15	03/25/15	08:45	3/27/2015 14:53
EPA 8082A	03/17/16	05/04/15	03/25/15	08:45	3/27/2015 14:53
EPA 8151A	03/25/15	05/04/15	03/25/15	10:45	4/1/2015 22:34
EPA 8260B	04/01/15		03/30/15	16:18	3/31/2015 13:15
EPA 8270D	03/25/15	05/03/15	03/24/15	10:47	3/27/2015 03:27
EPA 9014	04/01/15		03/23/15	10:30	3/23/2015 17:27
SM 4500S2 D-2000	03/25/15		03/23/15	15:45	3/23/2015 16:10

Client ID: 4501-MW6	Lab ID: C502186-02	Sampled: 03/19/15 08:35	Received: 03/20/15 11:30

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	09/15/15		03/24/15	10:04	3/26/2015 13:35
EPA 6020A	09/15/15		03/24/15	10:14	3/31/2015 12:14
EPA 7470A	04/16/15		04/01/15	10:21	4/1/2015 16:28
EPA 8081B	03/26/15	05/04/15	03/25/15	08:45	3/27/2015 15:20
EPA 8082A	03/18/16	05/04/15	03/25/15	08:45	3/27/2015 15:20
EPA 8151A	03/26/15	05/04/15	03/25/15	10:45	4/1/2015 22:59
EPA 8260B	04/02/15		03/30/15	17:17	3/30/2015 21:01
EPA 8270D	03/26/15	05/03/15	03/24/15	10:47	3/27/2015 03:55
EPA 9014	04/02/15		03/23/15	10:30	3/23/2015 17:34
SM 4500S2 D-2000	03/26/15		03/23/15	15:45	3/23/2015 16:10

Client ID: 4501-MW7	Lab ID: C502186-03	Sampled: 03/19/15 08:00	Received: 03/20/15 11:30

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	09/15/15		03/24/15	10:04	3/26/2015 13:38
EPA 6020A	09/15/15		03/24/15	10:14	3/31/2015 12:17
EPA 7470A	04/16/15		04/01/15	10:21	4/1/2015 16:30
EPA 8081B	03/26/15	05/04/15	03/25/15	08:45	3/27/2015 15:33
EPA 8082A	03/18/16	05/04/15	03/25/15	08:45	3/27/2015 15:33
EPA 8151A	03/26/15	05/04/15	03/25/15	10:45	4/1/2015 23:25
EPA 8260B	04/02/15		03/30/15	17:17	3/30/2015 21:31
EPA 8270D	03/26/15	05/03/15	03/24/15	10:47	3/27/2015 04:22
EPA 9014	04/02/15		03/23/15	10:30	3/23/2015 17:36
SM 4500S2 D-2000	03/26/15		03/23/15	15:45	3/23/2015 16:10

Client ID: 4501-MW8 (MS/MSD)	Lab ID: C502186-04	Sampled: 03/18/15 15:25	Received: 03/20/15 11:30

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	09/14/15		03/24/15	10:04	3/26/2015 13:06
EPA 6020A	09/14/15		03/24/15	10:14	3/31/2015 11:36
EPA 7470A	04/15/15		04/01/15	10:21	4/1/2015 16:00
EPA 8081B	03/25/15	05/04/15	03/25/15	08:45	3/27/2015 15:46
EPA 8082A	03/17/16	05/04/15	03/25/15	08:45	3/27/2015 15:46
EPA 8151A	03/25/15	05/04/15	03/25/15	10:45	4/1/2015 19:08
EPA 8260B	04/01/15		03/31/15	15:21	4/1/2015 12:53
EPA 8270D	03/25/15	05/02/15	03/23/15	14:47	3/27/2015 02:59
EPA 9014	04/01/15		03/23/15	13:05	3/23/2015 17:21
SM 4500S2 D-2000	03/25/15		03/23/15	15:45	3/23/2015 16:10

Client ID: 4501-MW9	Lab ID: C502186-05	Sampled: 03/18/15 11:52	Received: 03/20/15 11:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	09/14/15	03/24/15	10:04	3/26/2015 13:40
EPA 6020A	09/14/15	03/24/15	10:14	3/31/2015 12:21
EPA 8260B	04/01/15	03/30/15	16:18	3/31/2015 13:45

Client ID: 4501-AMW1S	Lab ID: C502186-06	Sampled: 03/17/15 16:37	Received: 03/20/15 11:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	09/13/15	03/24/15	10:04	3/26/2015 13:43
EPA 6020A	09/13/15	03/24/15	10:14	3/31/2015 12:25
EPA 7470A	04/14/15	04/01/15	10:21	4/1/2015 16:33
EPA 8260B	03/31/15	03/27/15	14:08	3/28/2015 04:16

Client ID: 4501-AMW1D	Lab ID: C502186-07	Sampled: 03/17/15 17:11	Received: 03/20/15 11:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	09/13/15	03/24/15	10:04	3/26/2015 13:46
EPA 6020A	09/13/15	03/24/15	10:14	3/31/2015 12:28
EPA 7470A	04/14/15	04/01/15	10:21	4/1/2015 16:35
EPA 8260B	03/31/15	03/27/15	14:08	3/28/2015 04:45

Client ID: 4501-AMW2S	Lab ID: C502186-08	Sampled: 03/18/15 17:00	Received: 03/20/15 11:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	09/14/15	03/24/15	10:04	3/26/2015 13:48
EPA 6020A	09/14/15	03/24/15	10:14	3/31/2015 12:32
EPA 7470A	04/15/15	04/01/15	10:21	4/1/2015 16:37
EPA 8260B	04/01/15	03/30/15	16:18	3/31/2015 14:14

Client ID: 4501-AMW2D	Lab ID: C502186-09	Sampled: 03/18/15 17:50	Received: 03/20/15 11:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	09/14/15	03/24/15 10:04	3/26/2015 13:51
EPA 6020A	09/14/15	03/24/15 10:14	3/31/2015 12:36
EPA 7470A	04/15/15	04/01/15 10:21	4/1/2015 16:39
EPA 8260B	04/01/15	03/30/15 16:18	3/31/2015 14:43

Client ID: 4501-BR1	Lab ID: C502186-10	Sampled: 03/18/15 15:50	Received: 03/20/15 11:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	09/14/15	03/24/15 10:04	3/26/2015 13:53
EPA 6020A	09/14/15	03/24/15 10:14	3/31/2015 12:39
EPA 8260B	04/01/15	03/30/15 16:18	3/31/2015 15:12

Client ID: 4501-BR2	Lab ID: C502186-11	Sampled: 03/18/15 16:15	Received: 03/20/15 11:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	09/14/15	03/24/15 10:04	3/26/2015 13:56
EPA 6020A	09/14/15	03/24/15 10:14	3/31/2015 12:55
EPA 8260B	04/01/15	03/30/15 16:18	3/31/2015 15:41

Client ID: 4501-BR3	Lab ID: C502186-12	Sampled: 03/17/15 17:20	Received: 03/20/15 11:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	09/13/15	03/24/15 10:04	3/26/2015 13:58
EPA 6020A	09/13/15	03/24/15 10:14	3/31/2015 12:59
EPA 8260B	03/31/15	03/27/15 14:08	3/28/2015 05:15

Client ID: 4501-SW1	Lab ID: C502186-13	Sampled: 03/19/15 11:25	Received: 03/20/15 11:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	09/15/15	03/24/15 10:04	3/26/2015 14:09
EPA 6020A	09/15/15	03/24/15 10:14	3/31/2015 13:03
EPA 8260B	04/02/15	03/30/15 17:17	3/30/2015 22:00

Client ID: 4501-TSW2	Lab ID: C502186-14	Sampled: 03/19/15 09:10	Received: 03/20/15 11:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	04/02/15	03/30/15 17:17	3/30/2015 22:29

Client ID: 4501-Field Blank	Lab ID: C502186-15	Sampled: 03/19/15 11:35	Received: 03/20/15 11:30

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	09/15/15		03/24/15	10:04	3/26/2015 14:14
EPA 6020A	09/15/15		03/24/15	10:14	3/31/2015 13:10
EPA 7470A	04/16/15		04/01/15	10:21	4/1/2015 16:41
EPA 8081B	03/26/15	05/04/15	03/25/15	08:45	3/27/2015 16:00
EPA 8082A	03/18/16	05/04/15	03/25/15	08:45	3/27/2015 16:00
EPA 8151A	03/26/15	05/04/15	03/25/15	10:45	4/1/2015 23:51
EPA 8260B	04/02/15		03/30/15	17:17	3/30/2015 22:59
EPA 8270D	03/26/15	05/03/15	03/24/15	10:47	3/27/2015 04:50
EPA 9014	04/02/15		03/23/15	13:05	3/23/2015 17:38
SM 4500S2 D-2000	03/26/15		03/23/15	15:45	3/23/2015 16:10

Client ID: 4501-Trip Blank	Lab ID: C502186-16	Sampled: 03/17/15 16:37	Received: 03/20/15 11:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260B	03/31/15	03/27/15	14:08	3/28/2015 01:49

NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: 4501-MW5 (Background) **Lab ID: C502186-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	42.3	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.125	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Copper - Total	2.54	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Zinc - Total	5.35	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4501-MW6 **Lab ID: C502186-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Acetone	29	J	1	1.2	5.0	100	ug/L	EPA 8260B	
Barium - Total	27.4	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Zinc - Total	7.19	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4501-MW7 **Lab ID: C502186-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	0.47	J	1	0.13	1.0	5	ug/L	EPA 8260B	
1,2-Dichlorobenzene	0.77	J	1	0.19	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	14		1	0.19	1.0	1	ug/L	EPA 8260B	
Barium - Total	535		1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	1.3		1	0.15	1.0	1	ug/L	EPA 8260B	
Beryllium - Total	0.514	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Cadmium - Total	2.18		1	0.360	1.00	1	ug/L	EPA 6010C	
Chlorobenzene	10		1	0.17	1.0	3	ug/L	EPA 8260B	
Chromium - Total	7.41	J	1	1.40	10.0	10	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	5.3		1	0.15	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	2.67	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Lead - Total	3.32	J	1	3.10	10.0	10	ug/L	EPA 6010C	
Nickel - Total	2.55	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Silver - Total	4.00	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Thallium - Total	0.281	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Vinyl chloride	0.88	J	1	0.32	1.0	1	ug/L	EPA 8260B	
Zinc - Total	9.75	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4501-MW8 (MS/MSD) **Lab ID: C502186-04**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	0.661	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	710		1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.344	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Chromium - Total	2.76	J	1	1.40	10.0	10	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	0.63	J	1	0.15	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	5.00	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Thallium - Total	0.605	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Zinc - Total	21.7		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4501-MW9 **Lab ID: C502186-05**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	226		1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	1.54		1	0.100	1.00	1	ug/L	EPA 6010C	
Cobalt - Total	1.67	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	2.90	J	1	1.60	10.0	10	ug/L	EPA 6010C	

Client ID: 4501-MW9								Lab ID: C502186-05	
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Vanadium - Total	1.53	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	12.2		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4501-AMW1S								Lab ID: C502186-06	
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
1,4-Dichlorobenzene	0.46	J	1	0.19	1.0	1	ug/L	EPA 8260B	
Barium - Total	538		1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.992	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Cadmium - Total	1.63		1	0.360	1.00	1	ug/L	EPA 6010C	
Chlorobenzene	1.4	J	1	0.17	1.0	3	ug/L	EPA 8260B	
Chromium - Total	2.45	J	1	1.40	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	7.67	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Nickel - Total	2.22	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Silver - Total	2.05	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Thallium - Total	0.514	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Zinc - Total	4.58	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4501-AMW1D								Lab ID: C502186-07	
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
1,1-Dichloroethane	0.76	J	1	0.13	1.0	5	ug/L	EPA 8260B	
1,2-Dichlorobenzene	0.71	J	1	0.19	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	4.0		1	0.19	1.0	1	ug/L	EPA 8260B	
Barium - Total	11.0	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	1.2		1	0.15	1.0	1	ug/L	EPA 8260B	
Chlorobenzene	6.4		1	0.17	1.0	3	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	1.2	J	1	0.15	1.0	5	ug/L	EPA 8260B	
Vinyl chloride	0.46	J	1	0.32	1.0	1	ug/L	EPA 8260B	
Zinc - Total	6.15	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4501-AMW2S								Lab ID: C502186-08	
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
1,1-Dichloroethane	0.77	J	1	0.13	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	1.4		1	0.19	1.0	1	ug/L	EPA 8260B	
Barium - Total	11.7	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	0.60	J	1	0.15	1.0	1	ug/L	EPA 8260B	
Chlorobenzene	2.2	J	1	0.17	1.0	3	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	1.2	J	1	0.15	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	1.78	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Mercury - Total	1.49		1	0.170	0.200	0.2	ug/L	EPA 7470A	
Vanadium - Total	7.02	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	6.87	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4501-AMW2D								Lab ID: C502186-09	
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Barium - Total	2.26	J	1	1.00	10.0	100	ug/L	EPA 6010C	

Client ID: 4501-BR1								Lab ID: C502186-10	
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Barium - Total	49.7	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Cobalt - Total	2.58	J	1	1.10	10.0	10	ug/L	EPA 6010C	

Client ID: 4501-BR2							Lab ID: C502186-11		
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
1,2-Dichlorobenzene	0.60	J	1	0.19	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	2.2		1	0.19	1.0	1	ug/L	EPA 8260B	
Antimony - Total	0.681	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	251		1	1.00	10.0	100	ug/L	EPA 6010C	
Chlorobenzene	0.70	J	1	0.17	1.0	3	ug/L	EPA 8260B	
Chromium - Total	2.23	J	1	1.40	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	5.51	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Nickel - Total	2.24	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Silver - Total	2.16	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Zinc - Total	4.48	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4501-BR3							Lab ID: C502186-12		
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Antimony - Total	0.230	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	169		1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.163	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Cobalt - Total	2.75	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Nickel - Total	1.99	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Zinc - Total	34.2		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4501-SW1							Lab ID: C502186-13		
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Barium - Total	41.0	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Cobalt - Total	1.62	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Zinc - Total	3.83	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4501-Field Blank							Lab ID: C502186-15		
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Copper - Total	1.74	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Manganese - Total	1.34	J	1	1.10	10.0	50	ug/L	EPA 6010C	

ANALYTICAL RESULTS

Description: 4501-MW5 (Background) | **Lab Sample ID:** C502186-01 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/18/15 14:55 | **Work Order:** C502186

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	03/31/15 13:15	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	03/31/15 13:15	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	03/31/15 13:15	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/31/15 13:15	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	03/31/15 13:15	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/31/15 13:15	MSZ	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	03/31/15 13:15	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/31/15 13:15	MSZ	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	03/31/15 13:15	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/31/15 13:15	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/31/15 13:15	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	03/31/15 13:15	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	03/31/15 13:15	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	03/31/15 13:15	MSZ	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	03/31/15 13:15	MSZ	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	03/31/15 13:15	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	03/31/15 13:15	MSZ	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	03/31/15 13:15	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/31/15 13:15	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/31/15 13:15	MSZ	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	03/31/15 13:15	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/31/15 13:15	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/31/15 13:15	MSZ	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	03/31/15 13:15	MSZ	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	03/31/15 13:15	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/31/15 13:15	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/31/15 13:15	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	03/31/15 13:15	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/31/15 13:15	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	03/31/15 13:15	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	03/31/15 13:15	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/31/15 13:15	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/31/15 13:15	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	03/31/15 13:15	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	03/31/15 13:15	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	03/31/15 13:15	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/31/15 13:15	MSZ	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	03/31/15 13:15	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	03/31/15 13:15	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	03/31/15 13:15	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	03/31/15 13:15	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	03/31/15 13:15	MSZ	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	03/31/15 13:15	MSZ	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	03/31/15 13:15	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/31/15 13:15	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/31/15 13:15	MSZ	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	03/31/15 13:15	MSZ	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	03/31/15 13:15	MSZ	

Description: 4501-MW5 (Background) | **Lab Sample ID:** C502186-01 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/18/15 14:55 | **Work Order:** C502186

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
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	03/31/15 13:15	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/31/15 13:15	MSZ	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	03/31/15 13:15	MSZ	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	03/31/15 13:15	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	03/31/15 13:15	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/31/15 13:15	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/31/15 13:15	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/31/15 13:15	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/31/15 13:15	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/31/15 13:15	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/31/15 13:15	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	03/31/15 13:15	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/31/15 13:15	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	03/31/15 13:15	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	03/31/15 13:15	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*54*	*1*	*50.0*	*107 %*	*53-136*	*5C31029*	*EPA 8260B*	*03/31/15 13:15*	*MSZ*	
Dibromofluoromethane	*51*	*1*	*50.0*	*102 %*	*67-129*	*5C31029*	*EPA 8260B*	*03/31/15 13:15*	*MSZ*	
Toluene-d8	*55*	*1*	*50.0*	*111 %*	*59-134*	*5C31029*	*EPA 8260B*	*03/31/15 13:15*	*MSZ*	

Description: 4501-MW5 (Background) **Lab Sample ID:** C502186-01 **Received:** 03/20/15 11:30

Matrix: Ground Water **Sampled:** 03/18/15 14:55 **Work Order:** C502186

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
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	03/27/15 03:27	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	03/27/15 03:27	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	03/27/15 03:27	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	03/27/15 03:27	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	03/27/15 03:27	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	03/27/15 03:27	DFM	QV-02
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	03/27/15 03:27	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/27/15 03:27	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/27/15 03:27	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/27/15 03:27	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 03:27	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	03/27/15 03:27	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	03/27/15 03:27	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/27/15 03:27	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	03/27/15 03:27	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	03/27/15 03:27	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/27/15 03:27	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/27/15 03:27	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	03/27/15 03:27	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	03/27/15 03:27	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/27/15 03:27	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	03/27/15 03:27	DFM	QV-02
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	03/27/15 03:27	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/27/15 03:27	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	03/27/15 03:27	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	03/27/15 03:27	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	03/27/15 03:27	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 03:27	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	03/27/15 03:27	DFM	QV-01
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	03/27/15 03:27	DFM	QV-02
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/27/15 03:27	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	03/27/15 03:27	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	03/27/15 03:27	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	03/27/15 03:27	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	03/27/15 03:27	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	03/27/15 03:27	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	03/27/15 03:27	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/27/15 03:27	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/27/15 03:27	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/27/15 03:27	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 03:27	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	03/27/15 03:27	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 03:27	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 03:27	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/27/15 03:27	DFM	
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	03/27/15 03:27	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 03:27	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	03/27/15 03:27	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/27/15 03:27	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/27/15 03:27	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 03:27	DFM	

Description: 4501-MW5 (Background) | **Lab Sample ID:** C502186-01 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/18/15 14:55 | **Work Order:** C502186

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	03/27/15 03:27	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	03/27/15 03:27	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/27/15 03:27	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	03/27/15 03:27	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/27/15 03:27	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	03/27/15 03:27	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/27/15 03:27	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	03/27/15 03:27	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	03/27/15 03:27	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/27/15 03:27	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	03/27/15 03:27	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	03/27/15 03:27	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/27/15 03:27	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	03/27/15 03:27	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	03/27/15 03:27	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	03/27/15 03:27	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	03/27/15 03:27	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/27/15 03:27	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/27/15 03:27	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 03:27	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/27/15 03:27	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	03/27/15 03:27	DFM	QV-01
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	03/27/15 03:27	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	03/27/15 03:27	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 03:27	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 03:27	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	03/27/15 03:27	DFM	
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	03/27/15 03:27	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/27/15 03:27	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	03/27/15 03:27	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/27/15 03:27	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	03/27/15 03:27	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 03:27	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/27/15 03:27	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	03/27/15 03:27	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	03/27/15 03:27	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	03/27/15 03:27	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	03/27/15 03:27	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 03:27	DFM	
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 03:27	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/27/15 03:27	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	03/27/15 03:27	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/27/15 03:27	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 03:27	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	03/27/15 03:27	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	03/27/15 03:27	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/27/15 03:27	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/27/15 03:27	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/27/15 03:27	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/27/15 03:27	DFM	

Description: 4501-MW5 (Background) | **Lab Sample ID:** C502186-01 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/18/15 14:55 | **Work Order:** C502186

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
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	03/27/15 03:27	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/27/15 03:27	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	03/27/15 03:27	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*82*	*1*	*100*	*82 %*	*10-179*	*5C23026*	*EPA 8270D*	*03/27/15 03:27*	*DFM*	
2-Fluorobiphenyl	*34*	*1*	*50.0*	*68 %*	*10-149*	*5C23026*	*EPA 8270D*	*03/27/15 03:27*	*DFM*	
2-Fluorophenol	*52*	*1*	*100*	*52 %*	*10-110*	*5C23026*	*EPA 8270D*	*03/27/15 03:27*	*DFM*	
Nitrobenzene-d5	*34*	*1*	*50.0*	*67 %*	*10-149*	*5C23026*	*EPA 8270D*	*03/27/15 03:27*	*DFM*	
Phenol-d5	*46*	*1*	*100*	*46 %*	*10-88*	*5C23026*	*EPA 8270D*	*03/27/15 03:27*	*DFM*	
Terphenyl-d14	*40*	*1*	*50.0*	*80 %*	*10-188*	*5C23026*	*EPA 8270D*	*03/27/15 03:27*	*DFM*	

Description: 4501-MW5 (Background) | **Lab Sample ID:** C502186-01 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/18/15 14:55 | **Work Order:** C502186

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

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	03/27/15 14:53	MWC	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	03/27/15 14:53	MWC	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	03/27/15 14:53	MWC	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	03/27/15 14:53	MWC	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	03/27/15 14:53	MWC	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	03/27/15 14:53	MWC	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	03/27/15 14:53	MWC	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	03/27/15 14:53	MWC	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	03/27/15 14:53	MWC	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	03/27/15 14:53	MWC	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	03/27/15 14:53	MWC	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	03/27/15 14:53	MWC	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	03/27/15 14:53	MWC	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	03/27/15 14:53	MWC	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	03/27/15 14:53	MWC	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	03/27/15 14:53	MWC	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	03/27/15 14:53	MWC	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	03/27/15 14:53	MWC	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	03/27/15 14:53	MWC	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	03/27/15 14:53	MWC	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	03/27/15 14:53	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.1*	*1*	*1.00*	*111 %*	*44-134*	*5C25001*	*EPA 8081B*	*03/27/15 14:53*	*MWC*	
Decachlorobiphenyl	*0.95*	*1*	*1.00*	*95 %*	*37-149*	*5C25001*	*EPA 8081B*	*03/27/15 14:53*	*MWC*	

Description: 4501-MW5 (Background) | **Lab Sample ID:** C502186-01 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/18/15 14:55 | **Work Order:** C502186

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

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.43	U	ug/L	1	0.43	0.50	2	EPA 8082A	03/27/15 14:53	MWC	
PCB-1221 [11104-28-2] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	03/27/15 14:53	MWC	
PCB-1232 [11141-16-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	03/27/15 14:53	MWC	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	03/27/15 14:53	MWC	
PCB-1254 [11097-69-1] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	03/27/15 14:53	MWC	
PCB-1260 [11096-82-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	03/27/15 14:53	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.1*	*1*	*1.00*	*111 %*	*45-151*	*5C25002*	*EPA 8082A*	*03/27/15 14:53*	*MWC*	
Decachlorobiphenyl	*0.95*	*1*	*1.00*	*95 %*	*42-159*	*5C25002*	*EPA 8082A*	*03/27/15 14:53*	*MWC*	

Description: 4501-MW5 (Background) | **Lab Sample ID:** C502186-01 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/18/15 14:55 | **Work Order:** C502186

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	04/01/15 16:26	T1D	

Description: 4501-MW5 (Background) **Lab Sample ID:** C502186-01 **Received:** 03/20/15 11:30

Matrix: Ground Water **Sampled:** 03/18/15 14:55 **Work Order:** C502186

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	03/31/15 12:10	VLO	
Arsenic [7440-38-2] ^	6.80	U	ug/L	1	6.80	10.0	10	EPA 6010C	03/26/15 13:25	JDH	
Barium [7440-39-3] ^	**42.3**	J	ug/L	1	1.00	10.0	100	EPA 6010C	03/26/15 13:25	JDH	
Beryllium [7440-41-7] ^	**0.125**	J	ug/L	1	0.100	1.00	1	EPA 6010C	03/26/15 13:25	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/26/15 13:25	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	03/26/15 13:25	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	03/26/15 13:25	JDH	
Copper [7440-50-8] ^	**2.54**	J	ug/L	1	1.60	10.0	10	EPA 6010C	03/26/15 13:25	JDH	
Lead [7439-92-1] ^	3.10	U	ug/L	1	3.10	10.0	10	EPA 6010C	03/26/15 13:25	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	03/26/15 13:25	JDH	
Selenium [7782-49-2] ^	5.00	U	ug/L	1	5.00	10.0	10	EPA 6010C	03/26/15 13:25	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/26/15 13:25	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/31/15 12:10	VLO	
Tin [7440-31-5] ^	2.40	U	ug/L	1	2.40	10.0	100	EPA 6010C	03/26/15 13:25	JDH	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	03/26/15 13:25	JDH	
Zinc [7440-66-6] ^	**5.35**	J	ug/L	1	3.80	10.0	10	EPA 6010C	03/26/15 13:25	JDH	

Description: 4501-MW5 (Background) **Lab Sample ID:** C502186-01 **Received:** 03/20/15 11:30

Matrix: Ground Water **Sampled:** 03/18/15 14:55 **Work Order:** C502186

Project: Henderson Co. LF **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
Cyanide (total) [57-12-5] ^	4.9	U	ug/L	1	4.9	10	10	EPA 9014	03/23/15 17:27	AJB	
Sulfide [18496-25-8] ^	10	U	ug/L	1	10	100	1000	SM 4500S2 D-2000	03/23/15 16:10	JOC	

Description: 4501-MW5 (Background) | **Lab Sample ID:** C502186-01 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/18/15 14:55 | **Work Order:** C502186

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
2,4,5-T [93-76-5] ^	0.28	U	ug/L	1	0.28	0.50	2	EPA 8151A	04/01/15 22:34	rc	
2,4,5-TP (Silvex) [93-72-1] ^	0.44	U	ug/L	1	0.44	0.50	2	EPA 8151A	04/01/15 22:34	rc	
2,4-D [94-75-7] ^	0.27	U	ug/L	1	0.27	0.50	2	EPA 8151A	04/01/15 22:34	rc	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	04/01/15 22:34	rc	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	04/01/15 22:34	rc	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*1.7*	*1*	*2.00*	*84 %*	*48-151*	*5C25005*	*EPA 8151A*	*04/01/15 22:34*	*rc*	

Description: 4501-MW6 **Lab Sample ID:** C502186-02 **Received:** 03/20/15 11:30

Matrix: Ground Water **Sampled:** 03/19/15 08:35 **Work Order:** C502186

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	03/30/15 21:01	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	03/30/15 21:01	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	03/30/15 21:01	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/30/15 21:01	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	03/30/15 21:01	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/30/15 21:01	MSZ	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	03/30/15 21:01	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/30/15 21:01	MSZ	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	03/30/15 21:01	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/30/15 21:01	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/30/15 21:01	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	03/30/15 21:01	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	03/30/15 21:01	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	03/30/15 21:01	MSZ	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	03/30/15 21:01	MSZ	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	03/30/15 21:01	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	03/30/15 21:01	MSZ	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	03/30/15 21:01	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/30/15 21:01	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/30/15 21:01	MSZ	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	03/30/15 21:01	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/30/15 21:01	MSZ	
Acetone [67-64-1] ^	**29**	J	ug/L	1	1.2	5.0	100	EPA 8260B	03/30/15 21:01	MSZ	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	03/30/15 21:01	MSZ	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	03/30/15 21:01	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/30/15 21:01	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/30/15 21:01	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	03/30/15 21:01	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/30/15 21:01	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	03/30/15 21:01	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	03/30/15 21:01	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/30/15 21:01	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/30/15 21:01	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	03/30/15 21:01	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	03/30/15 21:01	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	03/30/15 21:01	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/30/15 21:01	MSZ	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	03/30/15 21:01	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	03/30/15 21:01	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	03/30/15 21:01	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	03/30/15 21:01	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	03/30/15 21:01	MSZ	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	03/30/15 21:01	MSZ	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	03/30/15 21:01	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/30/15 21:01	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/30/15 21:01	MSZ	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	03/30/15 21:01	MSZ	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	03/30/15 21:01	MSZ	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	03/30/15 21:01	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/30/15 21:01	MSZ	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	03/30/15 21:01	MSZ	

Description: 4501-MW6 | **Lab Sample ID:** C502186-02 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/19/15 08:35 | **Work Order:** C502186

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
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	03/30/15 21:01	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	03/30/15 21:01	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/30/15 21:01	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/30/15 21:01	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/30/15 21:01	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/30/15 21:01	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/30/15 21:01	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/30/15 21:01	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	03/30/15 21:01	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/30/15 21:01	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	03/30/15 21:01	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	03/30/15 21:01	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*93 %*	*53-136*	*5C30035*	*EPA 8260B*	*03/30/15 21:01*	*MSZ*	
Dibromofluoromethane	*55*	*1*	*50.0*	*110 %*	*67-129*	*5C30035*	*EPA 8260B*	*03/30/15 21:01*	*MSZ*	
Toluene-d8	*53*	*1*	*50.0*	*106 %*	*59-134*	*5C30035*	*EPA 8260B*	*03/30/15 21:01*	*MSZ*	

Description: 4501-MW6 **Lab Sample ID:** C502186-02 **Received:** 03/20/15 11:30

Matrix: Ground Water **Sampled:** 03/19/15 08:35 **Work Order:** C502186

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
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	03/27/15 03:55	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	03/27/15 03:55	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	03/27/15 03:55	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	03/27/15 03:55	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	03/27/15 03:55	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	03/27/15 03:55	DFM	QV-02
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	03/27/15 03:55	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/27/15 03:55	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/27/15 03:55	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/27/15 03:55	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 03:55	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	03/27/15 03:55	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	03/27/15 03:55	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/27/15 03:55	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	03/27/15 03:55	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	03/27/15 03:55	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/27/15 03:55	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/27/15 03:55	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	03/27/15 03:55	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	03/27/15 03:55	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/27/15 03:55	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	03/27/15 03:55	DFM	QV-02
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	03/27/15 03:55	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/27/15 03:55	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	03/27/15 03:55	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	03/27/15 03:55	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	03/27/15 03:55	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 03:55	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	03/27/15 03:55	DFM	QV-01
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	03/27/15 03:55	DFM	QV-02
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/27/15 03:55	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	03/27/15 03:55	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	03/27/15 03:55	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	03/27/15 03:55	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	03/27/15 03:55	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	03/27/15 03:55	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	03/27/15 03:55	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/27/15 03:55	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/27/15 03:55	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/27/15 03:55	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 03:55	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	03/27/15 03:55	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 03:55	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 03:55	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/27/15 03:55	DFM	
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	03/27/15 03:55	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 03:55	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	03/27/15 03:55	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/27/15 03:55	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/27/15 03:55	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 03:55	DFM	

Description: 4501-MW6 **Lab Sample ID:** C502186-02 **Received:** 03/20/15 11:30

Matrix: Ground Water **Sampled:** 03/19/15 08:35 **Work Order:** C502186

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	03/27/15 03:55	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	03/27/15 03:55	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/27/15 03:55	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	03/27/15 03:55	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/27/15 03:55	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	03/27/15 03:55	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/27/15 03:55	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	03/27/15 03:55	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	03/27/15 03:55	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/27/15 03:55	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	03/27/15 03:55	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	03/27/15 03:55	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/27/15 03:55	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	03/27/15 03:55	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	03/27/15 03:55	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	03/27/15 03:55	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	03/27/15 03:55	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/27/15 03:55	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/27/15 03:55	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 03:55	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/27/15 03:55	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	03/27/15 03:55	DFM	QV-01
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	03/27/15 03:55	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	03/27/15 03:55	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 03:55	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 03:55	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	03/27/15 03:55	DFM	
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	03/27/15 03:55	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/27/15 03:55	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	03/27/15 03:55	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/27/15 03:55	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	03/27/15 03:55	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 03:55	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/27/15 03:55	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	03/27/15 03:55	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	03/27/15 03:55	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	03/27/15 03:55	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	03/27/15 03:55	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 03:55	DFM	
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 03:55	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/27/15 03:55	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	03/27/15 03:55	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/27/15 03:55	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 03:55	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	03/27/15 03:55	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	03/27/15 03:55	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/27/15 03:55	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/27/15 03:55	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/27/15 03:55	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/27/15 03:55	DFM	

Description: 4501-MW6 | **Lab Sample ID:** C502186-02 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/19/15 08:35 | **Work Order:** C502186

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
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	03/27/15 03:55	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/27/15 03:55	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	03/27/15 03:55	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*71*	*1*	*100*	*71 %*	*10-179*	*5C23026*	*EPA 8270D*	*03/27/15 03:55*	*DFM*	
2-Fluorobiphenyl	*35*	*1*	*50.0*	*70 %*	*10-149*	*5C23026*	*EPA 8270D*	*03/27/15 03:55*	*DFM*	
2-Fluorophenol	*50*	*1*	*100*	*50 %*	*10-110*	*5C23026*	*EPA 8270D*	*03/27/15 03:55*	*DFM*	
Nitrobenzene-d5	*32*	*1*	*50.0*	*65 %*	*10-149*	*5C23026*	*EPA 8270D*	*03/27/15 03:55*	*DFM*	
Phenol-d5	*44*	*1*	*100*	*44 %*	*10-88*	*5C23026*	*EPA 8270D*	*03/27/15 03:55*	*DFM*	
Terphenyl-d14	*35*	*1*	*50.0*	*70 %*	*10-188*	*5C23026*	*EPA 8270D*	*03/27/15 03:55*	*DFM*	

Description: 4501-MW6 | **Lab Sample ID:** C502186-02 | **Received:** 03/20/15 11:30

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

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	03/27/15 15:20	MWC	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	03/27/15 15:20	MWC	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	03/27/15 15:20	MWC	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	03/27/15 15:20	MWC	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	03/27/15 15:20	MWC	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	03/27/15 15:20	MWC	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	03/27/15 15:20	MWC	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	03/27/15 15:20	MWC	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	03/27/15 15:20	MWC	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	03/27/15 15:20	MWC	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	03/27/15 15:20	MWC	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	03/27/15 15:20	MWC	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	03/27/15 15:20	MWC	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	03/27/15 15:20	MWC	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	03/27/15 15:20	MWC	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	03/27/15 15:20	MWC	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	03/27/15 15:20	MWC	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	03/27/15 15:20	MWC	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	03/27/15 15:20	MWC	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	03/27/15 15:20	MWC	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	03/27/15 15:20	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.96*	*1*	*1.00*	*96 %*	*44-134*	*5C25001*	*EPA 8081B*	*03/27/15 15:20*	*MWC*	
Decachlorobiphenyl	*0.83*	*1*	*1.00*	*83 %*	*37-149*	*5C25001*	*EPA 8081B*	*03/27/15 15:20*	*MWC*	

Description: 4501-MW6 | **Lab Sample ID:** C502186-02 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/19/15 08:35 | **Work Order:** C502186

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

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.43	U	ug/L	1	0.43	0.50	2	EPA 8082A	03/27/15 15:20	MWC	
PCB-1221 [11104-28-2] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	03/27/15 15:20	MWC	
PCB-1232 [11141-16-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	03/27/15 15:20	MWC	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	03/27/15 15:20	MWC	
PCB-1254 [11097-69-1] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	03/27/15 15:20	MWC	
PCB-1260 [11096-82-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	03/27/15 15:20	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.96*	*1*	*1.00*	*96 %*	*45-151*	*5C25002*	*EPA 8082A*	*03/27/15 15:20*	*MWC*	
Decachlorobiphenyl	*0.83*	*1*	*1.00*	*83 %*	*42-159*	*5C25002*	*EPA 8082A*	*03/27/15 15:20*	*MWC*	

Description: 4501-MW6 | **Lab Sample ID:** C502186-02 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/19/15 08:35 | **Work Order:** C502186

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	04/01/15 16:28	T1D	

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Description: 4501-MW6 | **Lab Sample ID:** C502186-02 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/19/15 08:35 | **Work Order:** C502186

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	03/31/15 12:14	VLO	
Arsenic [7440-38-2] ^	6.80	U	ug/L	1	6.80	10.0	10	EPA 6010C	03/26/15 13:35	JDH	
Barium [7440-39-3] ^	**27.4**	J	ug/L	1	1.00	10.0	100	EPA 6010C	03/26/15 13:35	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	03/26/15 13:35	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/26/15 13:35	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	03/26/15 13:35	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	03/26/15 13:35	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	03/26/15 13:35	JDH	
Lead [7439-92-1] ^	3.10	U	ug/L	1	3.10	10.0	10	EPA 6010C	03/26/15 13:35	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	03/26/15 13:35	JDH	
Selenium [7782-49-2] ^	5.00	U	ug/L	1	5.00	10.0	10	EPA 6010C	03/26/15 13:35	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/26/15 13:35	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/31/15 12:14	VLO	
Tin [7440-31-5] ^	2.40	U	ug/L	1	2.40	10.0	100	EPA 6010C	03/26/15 13:35	JDH	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	03/26/15 13:35	JDH	
Zinc [7440-66-6] ^	**7.19**	J	ug/L	1	3.80	10.0	10	EPA 6010C	03/26/15 13:35	JDH	

Description: 4501-MW6 | **Lab Sample ID:** C502186-02 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/19/15 08:35 | **Work Order:** C502186

Project: Henderson Co. LF | **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
Cyanide (total) [57-12-5] ^	4.9	U	ug/L	1	4.9	10	10	EPA 9014	03/23/15 17:34	AJB	
Sulfide [18496-25-8] ^	10	U	ug/L	1	10	100	1000	SM 4500S2 D-2000	03/23/15 16:10	JOC	

Description: 4501-MW6 | **Lab Sample ID:** C502186-02 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/19/15 08:35 | **Work Order:** C502186

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
2,4,5-T [93-76-5] ^	0.28	U	ug/L	1	0.28	0.50	2	EPA 8151A	04/01/15 22:59	rc	
2,4,5-TP (Silvex) [93-72-1] ^	0.44	U	ug/L	1	0.44	0.50	2	EPA 8151A	04/01/15 22:59	rc	
2,4-D [94-75-7] ^	0.27	U	ug/L	1	0.27	0.50	2	EPA 8151A	04/01/15 22:59	rc	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	04/01/15 22:59	rc	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	04/01/15 22:59	rc	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*1.6*	*1*	*2.00*	*81 %*	*48-151*	*5C25005*	*EPA 8151A*	*04/01/15 22:59*	*rc*	

Description: 4501-MW7 | **Lab Sample ID:** C502186-03 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/19/15 08:00 | **Work Order:** C502186

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	03/30/15 21:31	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	03/30/15 21:31	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	03/30/15 21:31	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/30/15 21:31	MSZ	
1,1-Dichloroethane [75-34-3] ^	**0.47**	J	ug/L	1	0.13	1.0	5	EPA 8260B	03/30/15 21:31	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/30/15 21:31	MSZ	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	03/30/15 21:31	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/30/15 21:31	MSZ	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	03/30/15 21:31	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/30/15 21:31	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/30/15 21:31	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	**0.77**	J	ug/L	1	0.19	1.0	5	EPA 8260B	03/30/15 21:31	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	03/30/15 21:31	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	03/30/15 21:31	MSZ	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	03/30/15 21:31	MSZ	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	03/30/15 21:31	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	**14**		ug/L	1	0.19	1.0	1	EPA 8260B	03/30/15 21:31	MSZ	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	03/30/15 21:31	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/30/15 21:31	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/30/15 21:31	MSZ	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	03/30/15 21:31	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/30/15 21:31	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/30/15 21:31	MSZ	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	03/30/15 21:31	MSZ	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	03/30/15 21:31	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/30/15 21:31	MSZ	
Benzene [71-43-2] ^	**1.3**		ug/L	1	0.15	1.0	1	EPA 8260B	03/30/15 21:31	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	03/30/15 21:31	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/30/15 21:31	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	03/30/15 21:31	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	03/30/15 21:31	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/30/15 21:31	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/30/15 21:31	MSZ	
Chlorobenzene [108-90-7] ^	**10**		ug/L	1	0.17	1.0	3	EPA 8260B	03/30/15 21:31	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	03/30/15 21:31	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	03/30/15 21:31	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/30/15 21:31	MSZ	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	03/30/15 21:31	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	**5.3**		ug/L	1	0.15	1.0	5	EPA 8260B	03/30/15 21:31	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	03/30/15 21:31	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	03/30/15 21:31	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	03/30/15 21:31	MSZ	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	03/30/15 21:31	MSZ	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	03/30/15 21:31	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/30/15 21:31	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/30/15 21:31	MSZ	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	03/30/15 21:31	MSZ	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	03/30/15 21:31	MSZ	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	03/30/15 21:31	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/30/15 21:31	MSZ	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	03/30/15 21:31	MSZ	

Description: 4501-MW7 | **Lab Sample ID:** C502186-03 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/19/15 08:00 | **Work Order:** C502186

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
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	03/30/15 21:31	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	03/30/15 21:31	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/30/15 21:31	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/30/15 21:31	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/30/15 21:31	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/30/15 21:31	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/30/15 21:31	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/30/15 21:31	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	03/30/15 21:31	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/30/15 21:31	MSZ	
Vinyl chloride [75-01-4] ^	**0.88**	J	ug/L	1	0.32	1.0	1	EPA 8260B	03/30/15 21:31	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	03/30/15 21:31	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*90 %*	*53-136*	*5C30035*	*EPA 8260B*	*03/30/15 21:31*	*MSZ*	
Dibromofluoromethane	*53*	*1*	*50.0*	*106 %*	*67-129*	*5C30035*	*EPA 8260B*	*03/30/15 21:31*	*MSZ*	
Toluene-d8	*52*	*1*	*50.0*	*104 %*	*59-134*	*5C30035*	*EPA 8260B*	*03/30/15 21:31*	*MSZ*	

Description: 4501-MW7 | **Lab Sample ID:** C502186-03 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/19/15 08:00 | **Work Order:** C502186

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
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	03/27/15 04:22	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	03/27/15 04:22	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	03/27/15 04:22	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	03/27/15 04:22	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	03/27/15 04:22	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	03/27/15 04:22	DFM	QV-02
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	03/27/15 04:22	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/27/15 04:22	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/27/15 04:22	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/27/15 04:22	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 04:22	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	03/27/15 04:22	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	03/27/15 04:22	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/27/15 04:22	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	03/27/15 04:22	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	03/27/15 04:22	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/27/15 04:22	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/27/15 04:22	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	03/27/15 04:22	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	03/27/15 04:22	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/27/15 04:22	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	03/27/15 04:22	DFM	QV-02
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	03/27/15 04:22	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/27/15 04:22	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	03/27/15 04:22	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	03/27/15 04:22	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	03/27/15 04:22	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 04:22	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	03/27/15 04:22	DFM	QV-01
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	03/27/15 04:22	DFM	QV-02
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/27/15 04:22	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	03/27/15 04:22	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	03/27/15 04:22	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	03/27/15 04:22	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	03/27/15 04:22	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	03/27/15 04:22	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	03/27/15 04:22	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/27/15 04:22	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/27/15 04:22	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/27/15 04:22	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 04:22	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	03/27/15 04:22	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 04:22	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 04:22	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/27/15 04:22	DFM	
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	03/27/15 04:22	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 04:22	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	03/27/15 04:22	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/27/15 04:22	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/27/15 04:22	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 04:22	DFM	

Description: 4501-MW7 | **Lab Sample ID:** C502186-03 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/19/15 08:00 | **Work Order:** C502186

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	03/27/15 04:22	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	03/27/15 04:22	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/27/15 04:22	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	03/27/15 04:22	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/27/15 04:22	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	03/27/15 04:22	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/27/15 04:22	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	03/27/15 04:22	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	03/27/15 04:22	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/27/15 04:22	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	03/27/15 04:22	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	03/27/15 04:22	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/27/15 04:22	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	03/27/15 04:22	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	03/27/15 04:22	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	03/27/15 04:22	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	03/27/15 04:22	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/27/15 04:22	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/27/15 04:22	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 04:22	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/27/15 04:22	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	03/27/15 04:22	DFM	QV-01
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	03/27/15 04:22	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	03/27/15 04:22	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 04:22	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 04:22	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	03/27/15 04:22	DFM	
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	03/27/15 04:22	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/27/15 04:22	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	03/27/15 04:22	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/27/15 04:22	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	03/27/15 04:22	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 04:22	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/27/15 04:22	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	03/27/15 04:22	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	03/27/15 04:22	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	03/27/15 04:22	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	03/27/15 04:22	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 04:22	DFM	
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 04:22	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/27/15 04:22	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	03/27/15 04:22	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/27/15 04:22	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 04:22	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	03/27/15 04:22	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	03/27/15 04:22	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/27/15 04:22	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/27/15 04:22	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/27/15 04:22	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/27/15 04:22	DFM	

Description: 4501-MW7 | **Lab Sample ID:** C502186-03 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/19/15 08:00 | **Work Order:** C502186

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
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	03/27/15 04:22	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/27/15 04:22	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	03/27/15 04:22	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*83*	*1*	*100*	*83 %*	*10-179*	*5C23026*	*EPA 8270D*	*03/27/15 04:22*	*DFM*	
2-Fluorobiphenyl	*40*	*1*	*50.0*	*81 %*	*10-149*	*5C23026*	*EPA 8270D*	*03/27/15 04:22*	*DFM*	
2-Fluorophenol	*61*	*1*	*100*	*61 %*	*10-110*	*5C23026*	*EPA 8270D*	*03/27/15 04:22*	*DFM*	
Nitrobenzene-d5	*38*	*1*	*50.0*	*75 %*	*10-149*	*5C23026*	*EPA 8270D*	*03/27/15 04:22*	*DFM*	
Phenol-d5	*53*	*1*	*100*	*53 %*	*10-88*	*5C23026*	*EPA 8270D*	*03/27/15 04:22*	*DFM*	
Terphenyl-d14	*40*	*1*	*50.0*	*79 %*	*10-188*	*5C23026*	*EPA 8270D*	*03/27/15 04:22*	*DFM*	

Description: 4501-MW7 | **Lab Sample ID:** C502186-03 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/19/15 08:00 | **Work Order:** C502186

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

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	03/27/15 15:33	MWC	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	03/27/15 15:33	MWC	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	03/27/15 15:33	MWC	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	03/27/15 15:33	MWC	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	03/27/15 15:33	MWC	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	03/27/15 15:33	MWC	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	03/27/15 15:33	MWC	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	03/27/15 15:33	MWC	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	03/27/15 15:33	MWC	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	03/27/15 15:33	MWC	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	03/27/15 15:33	MWC	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	03/27/15 15:33	MWC	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	03/27/15 15:33	MWC	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	03/27/15 15:33	MWC	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	03/27/15 15:33	MWC	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	03/27/15 15:33	MWC	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	03/27/15 15:33	MWC	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	03/27/15 15:33	MWC	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	03/27/15 15:33	MWC	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	03/27/15 15:33	MWC	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	03/27/15 15:33	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.2*	*1*	*1.00*	*121 %*	*44-134*	*5C25001*	*EPA 8081B*	*03/27/15 15:33*	*MWC*	
Decachlorobiphenyl	*0.83*	*1*	*1.00*	*83 %*	*37-149*	*5C25001*	*EPA 8081B*	*03/27/15 15:33*	*MWC*	

Description: 4501-MW7 | **Lab Sample ID:** C502186-03 | **Received:** 03/20/15 11:30
Matrix: Ground Water | **Sampled:** 03/19/15 08:00 | **Work Order:** C502186
Project: Henderson Co. LF | **Sampled By:** A. Stoddard

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.43	U	ug/L	1	0.43	0.50	2	EPA 8082A	03/27/15 15:33	MWC	
PCB-1221 [11104-28-2] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	03/27/15 15:33	MWC	
PCB-1232 [11141-16-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	03/27/15 15:33	MWC	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	03/27/15 15:33	MWC	
PCB-1254 [11097-69-1] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	03/27/15 15:33	MWC	
PCB-1260 [11096-82-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	03/27/15 15:33	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.2*	*1*	*1.00*	*121 %*	*45-151*	*5C25002*	*EPA 8082A*	*03/27/15 15:33*	*MWC*	
Decachlorobiphenyl	*0.83*	*1*	*1.00*	*83 %*	*42-159*	*5C25002*	*EPA 8082A*	*03/27/15 15:33*	*MWC*	

Description: 4501-MW7 | **Lab Sample ID:** C502186-03 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/19/15 08:00 | **Work Order:** C502186

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	04/01/15 16:30	T1D	

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Description: 4501-MW7 | **Lab Sample ID:** C502186-03 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/19/15 08:00 | **Work Order:** C502186

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	03/31/15 12:17	VLO	
Arsenic [7440-38-2] ^	6.80	U	ug/L	1	6.80	10.0	10	EPA 6010C	03/26/15 13:38	JDH	
Barium [7440-39-3] ^	**535**		ug/L	1	1.00	10.0	100	EPA 6010C	03/26/15 13:38	JDH	
Beryllium [7440-41-7] ^	**0.514**	J	ug/L	1	0.100	1.00	1	EPA 6010C	03/26/15 13:38	JDH	
Cadmium [7440-43-9] ^	**2.18**		ug/L	1	0.360	1.00	1	EPA 6010C	03/26/15 13:38	JDH	
Chromium [7440-47-3] ^	**7.41**	J	ug/L	1	1.40	10.0	10	EPA 6010C	03/26/15 13:38	JDH	
Cobalt [7440-48-4] ^	**2.67**	J	ug/L	1	1.10	10.0	10	EPA 6010C	03/26/15 13:38	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	03/26/15 13:38	JDH	
Lead [7439-92-1] ^	**3.32**	J	ug/L	1	3.10	10.0	10	EPA 6010C	03/26/15 13:38	JDH	
Nickel [7440-02-0] ^	**2.55**	J	ug/L	1	1.80	10.0	50	EPA 6010C	03/26/15 13:38	JDH	
Selenium [7782-49-2] ^	5.00	U	ug/L	1	5.00	10.0	10	EPA 6010C	03/26/15 13:38	JDH	
Silver [7440-22-4] ^	**4.00**	J	ug/L	1	1.90	10.0	10	EPA 6010C	03/26/15 13:38	JDH	
Thallium [7440-28-0] ^	**0.281**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/31/15 12:17	VLO	
Tin [7440-31-5] ^	2.40	U	ug/L	1	2.40	10.0	100	EPA 6010C	03/26/15 13:38	JDH	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	03/26/15 13:38	JDH	
Zinc [7440-66-6] ^	**9.75**	J	ug/L	1	3.80	10.0	10	EPA 6010C	03/26/15 13:38	JDH	

Description: 4501-MW7 | **Lab Sample ID:** C502186-03 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/19/15 08:00 | **Work Order:** C502186

Project: Henderson Co. LF | **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
Cyanide (total) [57-12-5] ^	4.9	U	ug/L	1	4.9	10	10	EPA 9014	03/23/15 17:36	AJB	
Sulfide [18496-25-8] ^	10	U	ug/L	1	10	100	1000	SM 4500S2 D-2000	03/23/15 16:10	JOC	

Description: 4501-MW7 | **Lab Sample ID:** C502186-03 | **Received:** 03/20/15 11:30
Matrix: Ground Water | **Sampled:** 03/19/15 08:00 | **Work Order:** C502186
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
2,4,5-T [93-76-5] ^	0.28	U	ug/L	1	0.28	0.50	2	EPA 8151A	04/01/15 23:25	rc	
2,4,5-TP (Silvex) [93-72-1] ^	0.44	U	ug/L	1	0.44	0.50	2	EPA 8151A	04/01/15 23:25	rc	
2,4-D [94-75-7] ^	0.27	U	ug/L	1	0.27	0.50	2	EPA 8151A	04/01/15 23:25	rc	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	04/01/15 23:25	rc	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	04/01/15 23:25	rc	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*2.0*	*1*	*2.00*	*98 %*	*48-151*	*5C25005*	*EPA 8151A*	*04/01/15 23:25*	*rc*	

Description: 4501-MW8 (MS/MSD) | **Lab Sample ID:** C502186-04 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/18/15 15:25 | **Work Order:** C502186

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	04/01/15 12:53	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	04/01/15 12:53	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	04/01/15 12:53	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	04/01/15 12:53	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	04/01/15 12:53	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	04/01/15 12:53	MSZ	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	04/01/15 12:53	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	04/01/15 12:53	MSZ	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	04/01/15 12:53	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/01/15 12:53	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	04/01/15 12:53	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	04/01/15 12:53	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	04/01/15 12:53	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	04/01/15 12:53	MSZ	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	04/01/15 12:53	MSZ	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	04/01/15 12:53	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	04/01/15 12:53	MSZ	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	04/01/15 12:53	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	04/01/15 12:53	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	04/01/15 12:53	MSZ	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	04/01/15 12:53	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/01/15 12:53	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	04/01/15 12:53	MSZ	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	04/01/15 12:53	MSZ	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	04/01/15 12:53	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	04/01/15 12:53	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/01/15 12:53	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	04/01/15 12:53	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	04/01/15 12:53	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	04/01/15 12:53	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	04/01/15 12:53	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/01/15 12:53	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	04/01/15 12:53	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	04/01/15 12:53	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	04/01/15 12:53	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	04/01/15 12:53	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	04/01/15 12:53	MSZ	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	04/01/15 12:53	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	**0.63**	J	ug/L	1	0.15	1.0	5	EPA 8260B	04/01/15 12:53	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/01/15 12:53	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	04/01/15 12:53	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	04/01/15 12:53	MSZ	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	04/01/15 12:53	MSZ	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	04/01/15 12:53	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	04/01/15 12:53	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	04/01/15 12:53	MSZ	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	04/01/15 12:53	MSZ	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	04/01/15 12:53	MSZ	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	04/01/15 12:53	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	04/01/15 12:53	MSZ	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	04/01/15 12:53	MSZ	

Description: 4501-MW8 (MS/MSD) | **Lab Sample ID:** C502186-04 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/18/15 15:25 | **Work Order:** C502186

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
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	04/01/15 12:53	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	04/01/15 12:53	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	04/01/15 12:53	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	04/01/15 12:53	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	04/01/15 12:53	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/01/15 12:53	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	04/01/15 12:53	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	04/01/15 12:53	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	04/01/15 12:53	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	04/01/15 12:53	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	04/01/15 12:53	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	04/01/15 12:53	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*55*	*1*	*50.0*	*110 %*	*53-136*	*5C31033*	*EPA 8260B*	*04/01/15 12:53*	*MSZ*	
Dibromofluoromethane	*52*	*1*	*50.0*	*104 %*	*67-129*	*5C31033*	*EPA 8260B*	*04/01/15 12:53*	*MSZ*	
Toluene-d8	*54*	*1*	*50.0*	*109 %*	*59-134*	*5C31033*	*EPA 8260B*	*04/01/15 12:53*	*MSZ*	

Description: 4501-MW8 (MS/MSD) | **Lab Sample ID:** C502186-04 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/18/15 15:25 | **Work Order:** C502186

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
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	03/27/15 02:59	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	03/27/15 02:59	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	03/27/15 02:59	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	03/27/15 02:59	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	03/27/15 02:59	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	03/27/15 02:59	DFM	QV-02
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	03/27/15 02:59	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/27/15 02:59	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/27/15 02:59	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/27/15 02:59	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 02:59	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	03/27/15 02:59	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	03/27/15 02:59	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/27/15 02:59	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	03/27/15 02:59	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	03/27/15 02:59	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/27/15 02:59	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/27/15 02:59	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	03/27/15 02:59	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	03/27/15 02:59	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/27/15 02:59	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	03/27/15 02:59	DFM	QV-02
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	03/27/15 02:59	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/27/15 02:59	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	03/27/15 02:59	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	03/27/15 02:59	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	03/27/15 02:59	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 02:59	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	03/27/15 02:59	DFM	QV-01
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	03/27/15 02:59	DFM	QV-02
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/27/15 02:59	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	03/27/15 02:59	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	03/27/15 02:59	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	03/27/15 02:59	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	03/27/15 02:59	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	03/27/15 02:59	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	03/27/15 02:59	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/27/15 02:59	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/27/15 02:59	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/27/15 02:59	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 02:59	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	03/27/15 02:59	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 02:59	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 02:59	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/27/15 02:59	DFM	
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	03/27/15 02:59	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 02:59	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	03/27/15 02:59	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/27/15 02:59	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/27/15 02:59	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 02:59	DFM	

Description: 4501-MW8 (MS/MSD) **Lab Sample ID:** C502186-04 **Received:** 03/20/15 11:30

Matrix: Ground Water **Sampled:** 03/18/15 15:25 **Work Order:** C502186

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	03/27/15 02:59	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	03/27/15 02:59	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/27/15 02:59	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	03/27/15 02:59	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/27/15 02:59	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	03/27/15 02:59	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/27/15 02:59	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	03/27/15 02:59	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	03/27/15 02:59	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/27/15 02:59	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	03/27/15 02:59	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	03/27/15 02:59	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/27/15 02:59	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	03/27/15 02:59	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	03/27/15 02:59	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	03/27/15 02:59	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	03/27/15 02:59	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/27/15 02:59	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/27/15 02:59	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 02:59	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/27/15 02:59	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	03/27/15 02:59	DFM	QV-01
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	03/27/15 02:59	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	03/27/15 02:59	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 02:59	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 02:59	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	03/27/15 02:59	DFM	
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	03/27/15 02:59	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/27/15 02:59	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	03/27/15 02:59	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/27/15 02:59	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	03/27/15 02:59	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 02:59	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/27/15 02:59	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	03/27/15 02:59	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	03/27/15 02:59	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	03/27/15 02:59	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	03/27/15 02:59	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 02:59	DFM	
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 02:59	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/27/15 02:59	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	03/27/15 02:59	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/27/15 02:59	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 02:59	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	03/27/15 02:59	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	03/27/15 02:59	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/27/15 02:59	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/27/15 02:59	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/27/15 02:59	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/27/15 02:59	DFM	

Description: 4501-MW8 (MS/MSD) | **Lab Sample ID:** C502186-04 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/18/15 15:25 | **Work Order:** C502186

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
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	03/27/15 02:59	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/27/15 02:59	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	03/27/15 02:59	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*98*	*1*	*100*	*98 %*	*10-179*	*5C23026*	*EPA 8270D*	*03/27/15 02:59*	*DFM*	
2-Fluorobiphenyl	*41*	*1*	*50.0*	*82 %*	*10-149*	*5C23026*	*EPA 8270D*	*03/27/15 02:59*	*DFM*	
2-Fluorophenol	*60*	*1*	*100*	*60 %*	*10-110*	*5C23026*	*EPA 8270D*	*03/27/15 02:59*	*DFM*	
Nitrobenzene-d5	*41*	*1*	*50.0*	*82 %*	*10-149*	*5C23026*	*EPA 8270D*	*03/27/15 02:59*	*DFM*	
Phenol-d5	*53*	*1*	*100*	*53 %*	*10-88*	*5C23026*	*EPA 8270D*	*03/27/15 02:59*	*DFM*	
Terphenyl-d14	*37*	*1*	*50.0*	*74 %*	*10-188*	*5C23026*	*EPA 8270D*	*03/27/15 02:59*	*DFM*	

Description: 4501-MW8 (MS/MSD) | **Lab Sample ID:** C502186-04 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/18/15 15:25 | **Work Order:** C502186

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

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	03/27/15 15:46	MWC	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	03/27/15 15:46	MWC	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	03/27/15 15:46	MWC	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	03/27/15 15:46	MWC	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	03/27/15 15:46	MWC	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	03/27/15 15:46	MWC	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	03/27/15 15:46	MWC	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	03/27/15 15:46	MWC	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	03/27/15 15:46	MWC	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	03/27/15 15:46	MWC	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	03/27/15 15:46	MWC	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	03/27/15 15:46	MWC	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	03/27/15 15:46	MWC	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	03/27/15 15:46	MWC	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	03/27/15 15:46	MWC	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	03/27/15 15:46	MWC	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	03/27/15 15:46	MWC	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	03/27/15 15:46	MWC	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	03/27/15 15:46	MWC	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	03/27/15 15:46	MWC	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	03/27/15 15:46	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.95*	*1*	*1.00*	*95 %*	*44-134*	*5C25001*	*EPA 8081B*	*03/27/15 15:46*	*MWC*	
Decachlorobiphenyl	*0.87*	*1*	*1.00*	*87 %*	*37-149*	*5C25001*	*EPA 8081B*	*03/27/15 15:46*	*MWC*	

Description: 4501-MW8 (MS/MSD) | **Lab Sample ID:** C502186-04 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/18/15 15:25 | **Work Order:** C502186

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

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.43	U	ug/L	1	0.43	0.50	2	EPA 8082A	03/27/15 15:46	MWC	
PCB-1221 [11104-28-2] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	03/27/15 15:46	MWC	
PCB-1232 [11141-16-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	03/27/15 15:46	MWC	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	03/27/15 15:46	MWC	
PCB-1254 [11097-69-1] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	03/27/15 15:46	MWC	
PCB-1260 [11096-82-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	03/27/15 15:46	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.95*	*1*	*1.00*	*95 %*	*45-151*	*5C25002*	*EPA 8082A*	*03/27/15 15:46*	*MWC*	
Decachlorobiphenyl	*0.87*	*1*	*1.00*	*87 %*	*42-159*	*5C25002*	*EPA 8082A*	*03/27/15 15:46*	*MWC*	

Description: 4501-MW8 (MS/MSD) | **Lab Sample ID:** C502186-04 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/18/15 15:25 | **Work Order:** C502186

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	04/01/15 16:00	T1D	

Description: 4501-MW8 (MS/MSD) | **Lab Sample ID:** C502186-04 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/18/15 15:25 | **Work Order:** C502186

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] ^	**0.661**	J	ug/L	1	0.220	2.00	6	EPA 6020A	03/31/15 11:36	VLO	
Arsenic [7440-38-2] ^	6.80	U	ug/L	1	6.80	10.0	10	EPA 6010C	03/26/15 13:06	JDH	
Barium [7440-39-3] ^	**710**		ug/L	1	1.00	10.0	100	EPA 6010C	03/26/15 13:06	JDH	
Beryllium [7440-41-7] ^	**0.344**	J	ug/L	1	0.100	1.00	1	EPA 6010C	03/26/15 13:06	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/26/15 13:06	JDH	
Chromium [7440-47-3] ^	**2.76**	J	ug/L	1	1.40	10.0	10	EPA 6010C	03/26/15 13:06	JDH	
Cobalt [7440-48-4] ^	**5.00**	J	ug/L	1	1.10	10.0	10	EPA 6010C	03/26/15 13:06	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	03/26/15 13:06	JDH	
Lead [7439-92-1] ^	3.10	U	ug/L	1	3.10	10.0	10	EPA 6010C	03/26/15 13:06	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	03/26/15 13:06	JDH	
Selenium [7782-49-2] ^	5.00	U	ug/L	1	5.00	10.0	10	EPA 6010C	03/26/15 13:06	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/26/15 13:06	JDH	
Thallium [7440-28-0] ^	**0.605**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/31/15 11:36	VLO	
Tin [7440-31-5] ^	2.40	U	ug/L	1	2.40	10.0	100	EPA 6010C	03/26/15 13:06	JDH	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	03/26/15 13:06	JDH	
Zinc [7440-66-6] ^	**21.7**		ug/L	1	3.80	10.0	10	EPA 6010C	03/26/15 13:06	JDH	

Description: 4501-MW8 (MS/MSD) | **Lab Sample ID:** C502186-04 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/18/15 15:25 | **Work Order:** C502186

Project: Henderson Co. LF | **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
Cyanide (total) [57-12-5] ^	4.9	U	ug/L	1	4.9	10	10	EPA 9014	03/23/15 17:21	AJB	
Sulfide [18496-25-8] ^	10	U	ug/L	1	10	100	1000	SM 4500S2 D-2000	03/23/15 16:10	JOC	

Description: 4501-MW8 (MS/MSD) | **Lab Sample ID:** C502186-04 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/18/15 15:25 | **Work Order:** C502186

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
2,4,5-T [93-76-5] ^	0.28	U	ug/L	1	0.28	0.50	2	EPA 8151A	04/01/15 19:08	rc	
2,4,5-TP (Silvex) [93-72-1] ^	0.44	U	ug/L	1	0.44	0.50	2	EPA 8151A	04/01/15 19:08	rc	
2,4-D [94-75-7] ^	0.27	U	ug/L	1	0.27	0.50	2	EPA 8151A	04/01/15 19:08	rc	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	04/01/15 19:08	rc	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	04/01/15 19:08	rc	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*2.2*	*1*	*2.00*	*109 %*	*48-151*	*5C25005*	*EPA 8151A*	*04/01/15 19:08*	*rc*	

Description: 4501-MW9 | **Lab Sample ID:** C502186-05 | **Received:** 03/20/15 11:30

Matrix: Surface Water | **Sampled:** 03/18/15 11:52 | **Work Order:** C502186

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	03/31/15 13:45	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	03/31/15 13:45	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	03/31/15 13:45	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/31/15 13:45	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	03/31/15 13:45	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/31/15 13:45	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/31/15 13:45	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/31/15 13:45	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/31/15 13:45	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	03/31/15 13:45	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	03/31/15 13:45	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	03/31/15 13:45	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	03/31/15 13:45	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/31/15 13:45	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/31/15 13:45	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/31/15 13:45	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/31/15 13:45	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/31/15 13:45	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/31/15 13:45	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	03/31/15 13:45	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/31/15 13:45	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	03/31/15 13:45	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	03/31/15 13:45	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/31/15 13:45	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/31/15 13:45	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	03/31/15 13:45	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	03/31/15 13:45	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	03/31/15 13:45	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/31/15 13:45	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	03/31/15 13:45	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	03/31/15 13:45	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	03/31/15 13:45	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	03/31/15 13:45	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/31/15 13:45	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/31/15 13:45	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/31/15 13:45	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	03/31/15 13:45	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/31/15 13:45	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/31/15 13:45	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/31/15 13:45	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/31/15 13:45	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/31/15 13:45	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/31/15 13:45	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	03/31/15 13:45	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/31/15 13:45	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	03/31/15 13:45	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	03/31/15 13:45	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*53*	*1*	*50.0*	*106 %*	*53-136*	*5C31029*	*EPA 8260B*	*03/31/15 13:45*	*MSZ*	
Dibromofluoromethane	*53*	*1*	*50.0*	*105 %*	*67-129*	*5C31029*	*EPA 8260B*	*03/31/15 13:45*	*MSZ*	

Description: 4501-MW9 | **Lab Sample ID:** C502186-05 | **Received:** 03/20/15 11:30
Matrix: Surface Water | **Sampled:** 03/18/15 11:52 | **Work Order:** C502186
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
Surrogates	***Results***	***DF***	***Spike Lvl***	***% Rec***	***% Rec Limits***		***Batch***	***Method***	***Analyzed***	***By***	**Notes**
Toluene-d8	*57*	*1*	*50.0*	*115 %*	*59-134*		*5C31029*	*EPA 8260B*	*03/31/15 13:45*	*MSZ*	

Description: 4501-MW9 | **Lab Sample ID:** C502186-05 | **Received:** 03/20/15 11:30

Matrix: Surface Water | **Sampled:** 03/18/15 11:52 | **Work Order:** C502186

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	03/31/15 12:21	VLO	
Arsenic [7440-38-2] ^	6.80	U	ug/L	1	6.80	10.0	10	EPA 6010C	03/26/15 13:40	JDH	
Barium [7440-39-3] ^	**226**		ug/L	1	1.00	10.0	100	EPA 6010C	03/26/15 13:40	JDH	
Beryllium [7440-41-7] ^	**1.54**		ug/L	1	0.100	1.00	1	EPA 6010C	03/26/15 13:40	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/26/15 13:40	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	03/26/15 13:40	JDH	
Cobalt [7440-48-4] ^	**1.67**	J	ug/L	1	1.10	10.0	10	EPA 6010C	03/26/15 13:40	JDH	
Copper [7440-50-8] ^	**2.90**	J	ug/L	1	1.60	10.0	10	EPA 6010C	03/26/15 13:40	JDH	
Lead [7439-92-1] ^	3.10	U	ug/L	1	3.10	10.0	10	EPA 6010C	03/26/15 13:40	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	03/26/15 13:40	JDH	
Selenium [7782-49-2] ^	5.00	U	ug/L	1	5.00	10.0	10	EPA 6010C	03/26/15 13:40	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/26/15 13:40	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/31/15 12:21	VLO	
Vanadium [7440-62-2] ^	**1.53**	J	ug/L	1	1.40	10.0	25	EPA 6010C	03/26/15 13:40	JDH	
Zinc [7440-66-6] ^	**12.2**		ug/L	1	3.80	10.0	10	EPA 6010C	03/26/15 13:40	JDH	

Description: 4501-AMW1S | **Lab Sample ID:** C502186-06 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/17/15 16:37 | **Work Order:** C502186

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	03/28/15 04:16	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	03/28/15 04:16	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	03/28/15 04:16	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/28/15 04:16	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	03/28/15 04:16	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/28/15 04:16	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/28/15 04:16	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/28/15 04:16	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/28/15 04:16	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	03/28/15 04:16	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	03/28/15 04:16	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	03/28/15 04:16	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	**0.46**	J	ug/L	1	0.19	1.0	1	EPA 8260B	03/28/15 04:16	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/28/15 04:16	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/28/15 04:16	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/28/15 04:16	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/28/15 04:16	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/28/15 04:16	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/28/15 04:16	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	03/28/15 04:16	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/28/15 04:16	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	03/28/15 04:16	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	03/28/15 04:16	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/28/15 04:16	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/28/15 04:16	MSZ	
Chlorobenzene [108-90-7] ^	**1.4**	J	ug/L	1	0.17	1.0	3	EPA 8260B	03/28/15 04:16	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	03/28/15 04:16	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	03/28/15 04:16	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/28/15 04:16	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	03/28/15 04:16	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	03/28/15 04:16	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	03/28/15 04:16	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	03/28/15 04:16	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/28/15 04:16	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/28/15 04:16	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/28/15 04:16	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	03/28/15 04:16	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/28/15 04:16	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/28/15 04:16	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/28/15 04:16	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/28/15 04:16	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/28/15 04:16	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/28/15 04:16	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	03/28/15 04:16	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/28/15 04:16	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	03/28/15 04:16	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	03/28/15 04:16	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*48*	*1*	*50.0*	*95 %*	*53-136*	*5C27025*	*EPA 8260B*	*03/28/15 04:16*	*MSZ*	
Dibromofluoromethane	*58*	*1*	*50.0*	*116 %*	*67-129*	*5C27025*	*EPA 8260B*	*03/28/15 04:16*	*MSZ*	

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

Lab Sample ID: C502186-06
Sampled: 03/17/15 16:37
Sampled By: A. Stoddard

Received: 03/20/15 11:30
Work Order: C502186

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
Surrogates	***Results***	***DF***	***Spike Lvl***	***% Rec***	***% Rec Limits***		***Batch***	***Method***	***Analyzed***	***By***	**Notes**
Toluene-d8	*56*	*1*	*50.0*	*111 %*	*59-134*		*5C27025*	*EPA 8260B*	*03/28/15 04:16*	*MSZ*	

Description: 4501-AMW1S | **Lab Sample ID:** C502186-06 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/17/15 16:37 | **Work Order:** C502186

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	04/01/15 16:33	T1D	

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

Lab Sample ID: C502186-06
Sampled: 03/17/15 16:37
Sampled By: A. Stoddard

Received: 03/20/15 11:30
Work Order: C502186

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	03/31/15 12:25	VLO	
Arsenic [7440-38-2] ^	6.80	U	ug/L	1	6.80	10.0	10	EPA 6010C	03/26/15 13:43	JDH	
Barium [7440-39-3] ^	**538**		ug/L	1	1.00	10.0	100	EPA 6010C	03/26/15 13:43	JDH	
Beryllium [7440-41-7] ^	**0.992**	J	ug/L	1	0.100	1.00	1	EPA 6010C	03/26/15 13:43	JDH	
Cadmium [7440-43-9] ^	**1.63**		ug/L	1	0.360	1.00	1	EPA 6010C	03/26/15 13:43	JDH	
Chromium [7440-47-3] ^	**2.45**	J	ug/L	1	1.40	10.0	10	EPA 6010C	03/26/15 13:43	JDH	
Cobalt [7440-48-4] ^	**7.67**	J	ug/L	1	1.10	10.0	10	EPA 6010C	03/26/15 13:43	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	03/26/15 13:43	JDH	
Lead [7439-92-1] ^	3.10	U	ug/L	1	3.10	10.0	10	EPA 6010C	03/26/15 13:43	JDH	
Nickel [7440-02-0] ^	**2.22**	J	ug/L	1	1.80	10.0	50	EPA 6010C	03/26/15 13:43	JDH	
Selenium [7782-49-2] ^	5.00	U	ug/L	1	5.00	10.0	10	EPA 6010C	03/26/15 13:43	JDH	
Silver [7440-22-4] ^	**2.05**	J	ug/L	1	1.90	10.0	10	EPA 6010C	03/26/15 13:43	JDH	
Thallium [7440-28-0] ^	**0.514**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/31/15 12:25	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	03/26/15 13:43	JDH	
Zinc [7440-66-6] ^	**4.58**	J	ug/L	1	3.80	10.0	10	EPA 6010C	03/26/15 13:43	JDH	

Description: 4501-AMW1D | **Lab Sample ID:** C502186-07 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/17/15 17:11 | **Work Order:** C502186

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	03/28/15 04:45	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	03/28/15 04:45	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	03/28/15 04:45	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/28/15 04:45	MSZ	
1,1-Dichloroethane [75-34-3] ^	**0.76**	J	ug/L	1	0.13	1.0	5	EPA 8260B	03/28/15 04:45	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/28/15 04:45	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/28/15 04:45	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/28/15 04:45	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/28/15 04:45	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	**0.71**	J	ug/L	1	0.19	1.0	5	EPA 8260B	03/28/15 04:45	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	03/28/15 04:45	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	03/28/15 04:45	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	**4.0**		ug/L	1	0.19	1.0	1	EPA 8260B	03/28/15 04:45	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/28/15 04:45	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/28/15 04:45	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/28/15 04:45	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/28/15 04:45	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/28/15 04:45	MSZ	
Benzene [71-43-2] ^	**1.2**		ug/L	1	0.15	1.0	1	EPA 8260B	03/28/15 04:45	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	03/28/15 04:45	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/28/15 04:45	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	03/28/15 04:45	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	03/28/15 04:45	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/28/15 04:45	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/28/15 04:45	MSZ	
Chlorobenzene [108-90-7] ^	**6.4**		ug/L	1	0.17	1.0	3	EPA 8260B	03/28/15 04:45	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	03/28/15 04:45	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	03/28/15 04:45	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/28/15 04:45	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	**1.2**	J	ug/L	1	0.15	1.0	5	EPA 8260B	03/28/15 04:45	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	03/28/15 04:45	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	03/28/15 04:45	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	03/28/15 04:45	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/28/15 04:45	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/28/15 04:45	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/28/15 04:45	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	03/28/15 04:45	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/28/15 04:45	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/28/15 04:45	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/28/15 04:45	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/28/15 04:45	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/28/15 04:45	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/28/15 04:45	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	03/28/15 04:45	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/28/15 04:45	MSZ	
Vinyl chloride [75-01-4] ^	**0.46**	J	ug/L	1	0.32	1.0	1	EPA 8260B	03/28/15 04:45	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	03/28/15 04:45	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*93 %*	*53-136*	*5C27025*	*EPA 8260B*	*03/28/15 04:45*	*MSZ*	
Dibromofluoromethane	*59*	*1*	*50.0*	*118 %*	*67-129*	*5C27025*	*EPA 8260B*	*03/28/15 04:45*	*MSZ*	

Description: 4501-AMW1D | **Lab Sample ID:** C502186-07 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/17/15 17:11 | **Work Order:** C502186

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
Surrogates	***Results***	***DF***	***Spike Lvl***	***% Rec***	***% Rec Limits***		***Batch***	***Method***	***Analyzed***	***By***	**Notes**
Toluene-d8	*54*	*1*	*50.0*	*108 %*	*59-134*		*5C27025*	*EPA 8260B*	*03/28/15 04:45*	*MSZ*	

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

Lab Sample ID: C502186-07
Sampled: 03/17/15 17:11
Sampled By: A. Stoddard

Received: 03/20/15 11:30
Work Order: C502186

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	04/01/15 16:35	T1D	

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

Lab Sample ID: C502186-07
Sampled: 03/17/15 17:11
Sampled By: A. Stoddard

Received: 03/20/15 11:30
Work Order: C502186

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	03/31/15 12:28	VLO	
Arsenic [7440-38-2] ^	6.80	U	ug/L	1	6.80	10.0	10	EPA 6010C	03/26/15 13:46	JDH	
Barium [7440-39-3] ^	**11.0**	J	ug/L	1	1.00	10.0	100	EPA 6010C	03/26/15 13:46	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	03/26/15 13:46	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/26/15 13:46	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	03/26/15 13:46	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	03/26/15 13:46	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	03/26/15 13:46	JDH	
Lead [7439-92-1] ^	3.10	U	ug/L	1	3.10	10.0	10	EPA 6010C	03/26/15 13:46	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	03/26/15 13:46	JDH	
Selenium [7782-49-2] ^	5.00	U	ug/L	1	5.00	10.0	10	EPA 6010C	03/26/15 13:46	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/26/15 13:46	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/31/15 12:28	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	03/26/15 13:46	JDH	
Zinc [7440-66-6] ^	**6.15**	J	ug/L	1	3.80	10.0	10	EPA 6010C	03/26/15 13:46	JDH	

Description: 4501-AMW2S | **Lab Sample ID:** C502186-08 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/18/15 17:00 | **Work Order:** C502186

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	03/31/15 14:14	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	03/31/15 14:14	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	03/31/15 14:14	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/31/15 14:14	MSZ	
1,1-Dichloroethane [75-34-3] ^	**0.77**	J	ug/L	1	0.13	1.0	5	EPA 8260B	03/31/15 14:14	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/31/15 14:14	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/31/15 14:14	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/31/15 14:14	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/31/15 14:14	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	03/31/15 14:14	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	03/31/15 14:14	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	03/31/15 14:14	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	**1.4**		ug/L	1	0.19	1.0	1	EPA 8260B	03/31/15 14:14	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/31/15 14:14	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/31/15 14:14	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/31/15 14:14	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/31/15 14:14	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/31/15 14:14	MSZ	
Benzene [71-43-2] ^	**0.60**	J	ug/L	1	0.15	1.0	1	EPA 8260B	03/31/15 14:14	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	03/31/15 14:14	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/31/15 14:14	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	03/31/15 14:14	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	03/31/15 14:14	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/31/15 14:14	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/31/15 14:14	MSZ	
Chlorobenzene [108-90-7] ^	**2.2**	J	ug/L	1	0.17	1.0	3	EPA 8260B	03/31/15 14:14	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	03/31/15 14:14	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	03/31/15 14:14	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/31/15 14:14	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	**1.2**	J	ug/L	1	0.15	1.0	5	EPA 8260B	03/31/15 14:14	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	03/31/15 14:14	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	03/31/15 14:14	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	03/31/15 14:14	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/31/15 14:14	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/31/15 14:14	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/31/15 14:14	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	03/31/15 14:14	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/31/15 14:14	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/31/15 14:14	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/31/15 14:14	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/31/15 14:14	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/31/15 14:14	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/31/15 14:14	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	03/31/15 14:14	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/31/15 14:14	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	03/31/15 14:14	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	03/31/15 14:14	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*55*	*1*	*50.0*	*111 %*	*53-136*	*5C31029*	*EPA 8260B*	*03/31/15 14:14*	*MSZ*	
Dibromofluoromethane	*52*	*1*	*50.0*	*103 %*	*67-129*	*5C31029*	*EPA 8260B*	*03/31/15 14:14*	*MSZ*	

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

Lab Sample ID: C502186-08
Sampled: 03/18/15 17:00
Sampled By: A. Stoddard

Received: 03/20/15 11:30
Work Order: C502186

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
Surrogates	***Results***	***DF***	***Spike Lvl***	***% Rec***	***% Rec Limits***		***Batch***	***Method***	***Analyzed***	***By***	**Notes**
Toluene-d8	*56*	*1*	*50.0*	*112 %*	*59-134*		*5C31029*	*EPA 8260B*	*03/31/15 14:14*	*MSZ*	

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

Lab Sample ID: C502186-08
Sampled: 03/18/15 17:00
Sampled By: A. Stoddard

Received: 03/20/15 11:30
Work Order: C502186

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] ^	**1.49**		ug/L	1	0.170	0.200	0.2	EPA 7470A	04/01/15 16:37	T1D	

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

Lab Sample ID: C502186-08
Sampled: 03/18/15 17:00
Sampled By: A. Stoddard

Received: 03/20/15 11:30
Work Order: C502186

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	03/31/15 12:32	VLO	
Arsenic [7440-38-2] ^	6.80	U	ug/L	1	6.80	10.0	10	EPA 6010C	03/26/15 13:48	JDH	
Barium [7440-39-3] ^	**11.7**	J	ug/L	1	1.00	10.0	100	EPA 6010C	03/26/15 13:48	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	03/26/15 13:48	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/26/15 13:48	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	03/26/15 13:48	JDH	
Cobalt [7440-48-4] ^	**1.78**	J	ug/L	1	1.10	10.0	10	EPA 6010C	03/26/15 13:48	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	03/26/15 13:48	JDH	
Lead [7439-92-1] ^	3.10	U	ug/L	1	3.10	10.0	10	EPA 6010C	03/26/15 13:48	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	03/26/15 13:48	JDH	
Selenium [7782-49-2] ^	5.00	U	ug/L	1	5.00	10.0	10	EPA 6010C	03/26/15 13:48	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/26/15 13:48	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/31/15 12:32	VLO	
Vanadium [7440-62-2] ^	**7.02**	J	ug/L	1	1.40	10.0	25	EPA 6010C	03/26/15 13:48	JDH	
Zinc [7440-66-6] ^	**6.87**	J	ug/L	1	3.80	10.0	10	EPA 6010C	03/26/15 13:48	JDH	

Description: 4501-AMW2D | **Lab Sample ID:** C502186-09 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/18/15 17:50 | **Work Order:** C502186

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	03/31/15 14:43	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	03/31/15 14:43	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	03/31/15 14:43	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/31/15 14:43	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	03/31/15 14:43	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/31/15 14:43	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/31/15 14:43	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/31/15 14:43	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/31/15 14:43	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	03/31/15 14:43	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	03/31/15 14:43	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	03/31/15 14:43	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	03/31/15 14:43	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/31/15 14:43	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/31/15 14:43	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/31/15 14:43	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/31/15 14:43	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/31/15 14:43	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/31/15 14:43	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	03/31/15 14:43	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/31/15 14:43	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	03/31/15 14:43	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	03/31/15 14:43	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/31/15 14:43	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/31/15 14:43	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	03/31/15 14:43	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	03/31/15 14:43	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	03/31/15 14:43	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/31/15 14:43	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	03/31/15 14:43	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	03/31/15 14:43	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	03/31/15 14:43	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	03/31/15 14:43	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/31/15 14:43	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/31/15 14:43	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/31/15 14:43	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	03/31/15 14:43	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/31/15 14:43	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/31/15 14:43	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/31/15 14:43	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/31/15 14:43	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/31/15 14:43	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/31/15 14:43	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	03/31/15 14:43	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/31/15 14:43	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	03/31/15 14:43	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	03/31/15 14:43	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*55*	*1*	*50.0*	*111 %*	*53-136*	*5C31029*	*EPA 8260B*	*03/31/15 14:43*	*MSZ*	
Dibromofluoromethane	*52*	*1*	*50.0*	*104 %*	*67-129*	*5C31029*	*EPA 8260B*	*03/31/15 14:43*	*MSZ*	

Description: 4501-AMW2D | **Lab Sample ID:** C502186-09 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/18/15 17:50 | **Work Order:** C502186

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
Surrogates	***Results***	***DF***	***Spike Lvl***	***% Rec***	***% Rec Limits***		***Batch***	***Method***	***Analyzed***	***By***	**Notes**
Toluene-d8	*56*	*1*	*50.0*	*111 %*	*59-134*		*5C31029*	*EPA 8260B*	*03/31/15 14:43*	*MSZ*	

Description: 4501-AMW2D | **Lab Sample ID:** C502186-09 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/18/15 17:50 | **Work Order:** C502186

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	04/01/15 16:39	T1D	

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

Lab Sample ID: C502186-09
Sampled: 03/18/15 17:50
Sampled By: A. Stoddard

Received: 03/20/15 11:30
Work Order: C502186

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	03/31/15 12:36	VLO	
Arsenic [7440-38-2] ^	6.80	U	ug/L	1	6.80	10.0	10	EPA 6010C	03/26/15 13:51	JDH	
Barium [7440-39-3] ^	**2.26**	J	ug/L	1	1.00	10.0	100	EPA 6010C	03/26/15 13:51	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	03/26/15 13:51	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/26/15 13:51	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	03/26/15 13:51	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	03/26/15 13:51	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	03/26/15 13:51	JDH	
Lead [7439-92-1] ^	3.10	U	ug/L	1	3.10	10.0	10	EPA 6010C	03/26/15 13:51	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	03/26/15 13:51	JDH	
Selenium [7782-49-2] ^	5.00	U	ug/L	1	5.00	10.0	10	EPA 6010C	03/26/15 13:51	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/26/15 13:51	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/31/15 12:36	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	03/26/15 13:51	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	03/26/15 13:51	JDH	

Description: 4501-BR1 **Lab Sample ID:** C502186-10 **Received:** 03/20/15 11:30

Matrix: Surface Water **Sampled:** 03/18/15 15:50 **Work Order:** C502186

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	03/31/15 15:12	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	03/31/15 15:12	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	03/31/15 15:12	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/31/15 15:12	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	03/31/15 15:12	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/31/15 15:12	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/31/15 15:12	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/31/15 15:12	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/31/15 15:12	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	03/31/15 15:12	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	03/31/15 15:12	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	03/31/15 15:12	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	03/31/15 15:12	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/31/15 15:12	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/31/15 15:12	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/31/15 15:12	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/31/15 15:12	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/31/15 15:12	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/31/15 15:12	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	03/31/15 15:12	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/31/15 15:12	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	03/31/15 15:12	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	03/31/15 15:12	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/31/15 15:12	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/31/15 15:12	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	03/31/15 15:12	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	03/31/15 15:12	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	03/31/15 15:12	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/31/15 15:12	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	03/31/15 15:12	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	03/31/15 15:12	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	03/31/15 15:12	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	03/31/15 15:12	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/31/15 15:12	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/31/15 15:12	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/31/15 15:12	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	03/31/15 15:12	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/31/15 15:12	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/31/15 15:12	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/31/15 15:12	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/31/15 15:12	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/31/15 15:12	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/31/15 15:12	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	03/31/15 15:12	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/31/15 15:12	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	03/31/15 15:12	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	03/31/15 15:12	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*56*	*1*	*50.0*	*112 %*	*53-136*	*5C31029*	*EPA 8260B*	*03/31/15 15:12*	*MSZ*	
Dibromofluoromethane	*51*	*1*	*50.0*	*102 %*	*67-129*	*5C31029*	*EPA 8260B*	*03/31/15 15:12*	*MSZ*	

Description: 4501-BR1 | **Lab Sample ID:** C502186-10 | **Received:** 03/20/15 11:30
Matrix: Surface Water | **Sampled:** 03/18/15 15:50 | **Work Order:** C502186
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
Surrogates	***Results***	***DF***	***Spike Lvl***	***% Rec***	***% Rec Limits***		***Batch***	***Method***	***Analyzed***	***By***	**Notes**
Toluene-d8	*55*	*1*	*50.0*	*110 %*	*59-134*		*5C31029*	*EPA 8260B*	*03/31/15 15:12*	*MSZ*	

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Description: 4501-BR1 | **Lab Sample ID:** C502186-10 | **Received:** 03/20/15 11:30

Matrix: Surface Water | **Sampled:** 03/18/15 15:50 | **Work Order:** C502186

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	03/31/15 12:39	VLO	
Arsenic [7440-38-2] ^	6.80	U	ug/L	1	6.80	10.0	10	EPA 6010C	03/26/15 13:53	JDH	
Barium [7440-39-3] ^	**49.7**	J	ug/L	1	1.00	10.0	100	EPA 6010C	03/26/15 13:53	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	03/26/15 13:53	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/26/15 13:53	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	03/26/15 13:53	JDH	
Cobalt [7440-48-4] ^	**2.58**	J	ug/L	1	1.10	10.0	10	EPA 6010C	03/26/15 13:53	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	03/26/15 13:53	JDH	
Lead [7439-92-1] ^	3.10	U	ug/L	1	3.10	10.0	10	EPA 6010C	03/26/15 13:53	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	03/26/15 13:53	JDH	
Selenium [7782-49-2] ^	5.00	U	ug/L	1	5.00	10.0	10	EPA 6010C	03/26/15 13:53	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/26/15 13:53	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/31/15 12:39	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	03/26/15 13:53	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	03/26/15 13:53	JDH	

Description: 4501-BR2 | **Lab Sample ID:** C502186-11 | **Received:** 03/20/15 11:30

Matrix: Surface Water | **Sampled:** 03/18/15 16:15 | **Work Order:** C502186

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	03/31/15 15:41	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	03/31/15 15:41	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	03/31/15 15:41	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/31/15 15:41	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	03/31/15 15:41	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/31/15 15:41	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/31/15 15:41	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/31/15 15:41	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/31/15 15:41	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	**0.60**	J	ug/L	1	0.19	1.0	5	EPA 8260B	03/31/15 15:41	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	03/31/15 15:41	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	03/31/15 15:41	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	**2.2**		ug/L	1	0.19	1.0	1	EPA 8260B	03/31/15 15:41	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/31/15 15:41	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/31/15 15:41	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/31/15 15:41	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/31/15 15:41	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/31/15 15:41	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/31/15 15:41	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	03/31/15 15:41	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/31/15 15:41	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	03/31/15 15:41	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	03/31/15 15:41	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/31/15 15:41	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/31/15 15:41	MSZ	
Chlorobenzene [108-90-7] ^	**0.70**	J	ug/L	1	0.17	1.0	3	EPA 8260B	03/31/15 15:41	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	03/31/15 15:41	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	03/31/15 15:41	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/31/15 15:41	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	03/31/15 15:41	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	03/31/15 15:41	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	03/31/15 15:41	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	03/31/15 15:41	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/31/15 15:41	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/31/15 15:41	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/31/15 15:41	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	03/31/15 15:41	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/31/15 15:41	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/31/15 15:41	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/31/15 15:41	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/31/15 15:41	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/31/15 15:41	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/31/15 15:41	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	03/31/15 15:41	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/31/15 15:41	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	03/31/15 15:41	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	03/31/15 15:41	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*56*	*1*	*50.0*	*111 %*	*53-136*	*5C31029*	*EPA 8260B*	*03/31/15 15:41*	*MSZ*	
Dibromofluoromethane	*52*	*1*	*50.0*	*104 %*	*67-129*	*5C31029*	*EPA 8260B*	*03/31/15 15:41*	*MSZ*	

Description: 4501-BR2 | **Lab Sample ID:** C502186-11 | **Received:** 03/20/15 11:30
Matrix: Surface Water | **Sampled:** 03/18/15 16:15 | **Work Order:** C502186
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
Surrogates	***Results***	***DF***	***Spike Lvl***	***% Rec***	***% Rec Limits***		***Batch***	***Method***	***Analyzed***	***By***	**Notes**
Toluene-d8	*54*	*1*	*50.0*	*109 %*	*59-134*		*5C31029*	*EPA 8260B*	*03/31/15 15:41*	*MSZ*	

Description: 4501-BR2 | **Lab Sample ID:** C502186-11 | **Received:** 03/20/15 11:30

Matrix: Surface Water | **Sampled:** 03/18/15 16:15 | **Work Order:** C502186

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] ^	**0.681**	J	ug/L	1	0.220	2.00	6	EPA 6020A	03/31/15 12:55	VLO	
Arsenic [7440-38-2] ^	6.80	U	ug/L	1	6.80	10.0	10	EPA 6010C	03/26/15 13:56	JDH	
Barium [7440-39-3] ^	**251**		ug/L	1	1.00	10.0	100	EPA 6010C	03/26/15 13:56	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	03/26/15 13:56	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/26/15 13:56	JDH	
Chromium [7440-47-3] ^	**2.23**	J	ug/L	1	1.40	10.0	10	EPA 6010C	03/26/15 13:56	JDH	
Cobalt [7440-48-4] ^	**5.51**	J	ug/L	1	1.10	10.0	10	EPA 6010C	03/26/15 13:56	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	03/26/15 13:56	JDH	
Lead [7439-92-1] ^	3.10	U	ug/L	1	3.10	10.0	10	EPA 6010C	03/26/15 13:56	JDH	
Nickel [7440-02-0] ^	**2.24**	J	ug/L	1	1.80	10.0	50	EPA 6010C	03/26/15 13:56	JDH	
Selenium [7782-49-2] ^	5.00	U	ug/L	1	5.00	10.0	10	EPA 6010C	03/26/15 13:56	JDH	
Silver [7440-22-4] ^	**2.16**	J	ug/L	1	1.90	10.0	10	EPA 6010C	03/26/15 13:56	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/31/15 12:55	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	03/26/15 13:56	JDH	
Zinc [7440-66-6] ^	**4.48**	J	ug/L	1	3.80	10.0	10	EPA 6010C	03/26/15 13:56	JDH	

Description: 4501-BR3 | **Lab Sample ID:** C502186-12 | **Received:** 03/20/15 11:30

Matrix: Surface Water | **Sampled:** 03/17/15 17:20 | **Work Order:** C502186

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	03/28/15 05:15	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	03/28/15 05:15	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	03/28/15 05:15	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/28/15 05:15	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	03/28/15 05:15	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/28/15 05:15	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/28/15 05:15	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/28/15 05:15	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/28/15 05:15	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	03/28/15 05:15	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	03/28/15 05:15	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	03/28/15 05:15	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	03/28/15 05:15	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/28/15 05:15	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/28/15 05:15	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/28/15 05:15	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/28/15 05:15	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/28/15 05:15	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/28/15 05:15	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	03/28/15 05:15	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/28/15 05:15	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	03/28/15 05:15	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	03/28/15 05:15	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/28/15 05:15	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/28/15 05:15	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	03/28/15 05:15	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	03/28/15 05:15	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	03/28/15 05:15	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/28/15 05:15	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	03/28/15 05:15	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	03/28/15 05:15	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	03/28/15 05:15	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	03/28/15 05:15	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/28/15 05:15	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/28/15 05:15	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/28/15 05:15	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	03/28/15 05:15	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/28/15 05:15	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/28/15 05:15	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/28/15 05:15	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/28/15 05:15	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/28/15 05:15	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/28/15 05:15	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	03/28/15 05:15	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/28/15 05:15	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	03/28/15 05:15	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	03/28/15 05:15	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*94 %*	*53-136*	*5C27025*	*EPA 8260B*	*03/28/15 05:15*	*MSZ*	
Dibromofluoromethane	*56*	*1*	*50.0*	*113 %*	*67-129*	*5C27025*	*EPA 8260B*	*03/28/15 05:15*	*MSZ*	

Description: 4501-BR3 | **Lab Sample ID:** C502186-12 | **Received:** 03/20/15 11:30
Matrix: Surface Water | **Sampled:** 03/17/15 17:20 | **Work Order:** C502186
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
Surrogates	***Results***	***DF***	***Spike Lvl***	***% Rec***	***% Rec Limits***		***Batch***	***Method***	***Analyzed***	***By***	**Notes**
Toluene-d8	*57*	*1*	*50.0*	*114 %*	*59-134*		*5C27025*	*EPA 8260B*	*03/28/15 05:15*	*MSZ*	

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Description: 4501-BR3 | **Lab Sample ID:** C502186-12 | **Received:** 03/20/15 11:30

Matrix: Surface Water | **Sampled:** 03/17/15 17:20 | **Work Order:** C502186

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] ^	**0.230**	J	ug/L	1	0.220	2.00	6	EPA 6020A	03/31/15 12:59	VLO	
Arsenic [7440-38-2] ^	6.80	U	ug/L	1	6.80	10.0	10	EPA 6010C	03/26/15 13:58	JDH	
Barium [7440-39-3] ^	**169**		ug/L	1	1.00	10.0	100	EPA 6010C	03/26/15 13:58	JDH	
Beryllium [7440-41-7] ^	**0.163**	J	ug/L	1	0.100	1.00	1	EPA 6010C	03/26/15 13:58	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/26/15 13:58	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	03/26/15 13:58	JDH	
Cobalt [7440-48-4] ^	**2.75**	J	ug/L	1	1.10	10.0	10	EPA 6010C	03/26/15 13:58	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	03/26/15 13:58	JDH	
Lead [7439-92-1] ^	3.10	U	ug/L	1	3.10	10.0	10	EPA 6010C	03/26/15 13:58	JDH	
Nickel [7440-02-0] ^	**1.99**	J	ug/L	1	1.80	10.0	50	EPA 6010C	03/26/15 13:58	JDH	
Selenium [7782-49-2] ^	5.00	U	ug/L	1	5.00	10.0	10	EPA 6010C	03/26/15 13:58	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/26/15 13:58	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/31/15 12:59	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	03/26/15 13:58	JDH	
Zinc [7440-66-6] ^	**34.2**		ug/L	1	3.80	10.0	10	EPA 6010C	03/26/15 13:58	JDH	

Description: 4501-SW1 | **Lab Sample ID:** C502186-13 | **Received:** 03/20/15 11:30

Matrix: Surface Water | **Sampled:** 03/19/15 11:25 | **Work Order:** C502186

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	03/30/15 22:00	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	03/30/15 22:00	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	03/30/15 22:00	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/30/15 22:00	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	03/30/15 22:00	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/30/15 22:00	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/30/15 22:00	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/30/15 22:00	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/30/15 22:00	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	03/30/15 22:00	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	03/30/15 22:00	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	03/30/15 22:00	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	03/30/15 22:00	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/30/15 22:00	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/30/15 22:00	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/30/15 22:00	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/30/15 22:00	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/30/15 22:00	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/30/15 22:00	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	03/30/15 22:00	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/30/15 22:00	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	03/30/15 22:00	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	03/30/15 22:00	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/30/15 22:00	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/30/15 22:00	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	03/30/15 22:00	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	03/30/15 22:00	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	03/30/15 22:00	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/30/15 22:00	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	03/30/15 22:00	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	03/30/15 22:00	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	03/30/15 22:00	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	03/30/15 22:00	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/30/15 22:00	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/30/15 22:00	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/30/15 22:00	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	03/30/15 22:00	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/30/15 22:00	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/30/15 22:00	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/30/15 22:00	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/30/15 22:00	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/30/15 22:00	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/30/15 22:00	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	03/30/15 22:00	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/30/15 22:00	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	03/30/15 22:00	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	03/30/15 22:00	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*92 %*	*53-136*	*5C30035*	*EPA 8260B*	*03/30/15 22:00*	*MSZ*	
Dibromofluoromethane	*53*	*1*	*50.0*	*107 %*	*67-129*	*5C30035*	*EPA 8260B*	*03/30/15 22:00*	*MSZ*	

Description: 4501-SW1 | **Lab Sample ID:** C502186-13 | **Received:** 03/20/15 11:30
Matrix: Surface Water | **Sampled:** 03/19/15 11:25 | **Work Order:** C502186
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
Surrogates	***Results***	***DF***	***Spike Lvl***	***% Rec***	***% Rec Limits***		***Batch***	***Method***	***Analyzed***	***By***	**Notes**
Toluene-d8	*52*	*1*	*50.0*	*104 %*	*59-134*		*5C30035*	*EPA 8260B*	*03/30/15 22:00*	*MSZ*	

Description: 4501-SW1 | **Lab Sample ID:** C502186-13 | **Received:** 03/20/15 11:30

Matrix: Surface Water | **Sampled:** 03/19/15 11:25 | **Work Order:** C502186

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	03/31/15 13:03	VLO	
Arsenic [7440-38-2] ^	6.80	U	ug/L	1	6.80	10.0	10	EPA 6010C	03/26/15 14:09	JDH	
Barium [7440-39-3] ^	**41.0**	J	ug/L	1	1.00	10.0	100	EPA 6010C	03/26/15 14:09	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	03/26/15 14:09	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/26/15 14:09	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	03/26/15 14:09	JDH	
Cobalt [7440-48-4] ^	**1.62**	J	ug/L	1	1.10	10.0	10	EPA 6010C	03/26/15 14:09	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	03/26/15 14:09	JDH	
Lead [7439-92-1] ^	3.10	U	ug/L	1	3.10	10.0	10	EPA 6010C	03/26/15 14:09	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	03/26/15 14:09	JDH	
Selenium [7782-49-2] ^	5.00	U	ug/L	1	5.00	10.0	10	EPA 6010C	03/26/15 14:09	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/26/15 14:09	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/31/15 13:03	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	03/26/15 14:09	JDH	
Zinc [7440-66-6] ^	**3.83**	J	ug/L	1	3.80	10.0	10	EPA 6010C	03/26/15 14:09	JDH	

Description: 4501-TSW2 | **Lab Sample ID:** C502186-14 | **Received:** 03/20/15 11:30

Matrix: Surface Water | **Sampled:** 03/19/15 09:10 | **Work Order:** C502186

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	03/30/15 22:29	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	03/30/15 22:29	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	03/30/15 22:29	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/30/15 22:29	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	03/30/15 22:29	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/30/15 22:29	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/30/15 22:29	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/30/15 22:29	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/30/15 22:29	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	03/30/15 22:29	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	03/30/15 22:29	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	03/30/15 22:29	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	03/30/15 22:29	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/30/15 22:29	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/30/15 22:29	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/30/15 22:29	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/30/15 22:29	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/30/15 22:29	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/30/15 22:29	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	03/30/15 22:29	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/30/15 22:29	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	03/30/15 22:29	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	03/30/15 22:29	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/30/15 22:29	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/30/15 22:29	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	03/30/15 22:29	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	03/30/15 22:29	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	03/30/15 22:29	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/30/15 22:29	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	03/30/15 22:29	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	03/30/15 22:29	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	03/30/15 22:29	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	03/30/15 22:29	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/30/15 22:29	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/30/15 22:29	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/30/15 22:29	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	03/30/15 22:29	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/30/15 22:29	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/30/15 22:29	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/30/15 22:29	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/30/15 22:29	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/30/15 22:29	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/30/15 22:29	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	03/30/15 22:29	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/30/15 22:29	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	03/30/15 22:29	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	03/30/15 22:29	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*94 %*	*53-136*	*5C30035*	*EPA 8260B*	*03/30/15 22:29*	*MSZ*	
Dibromofluoromethane	*56*	*1*	*50.0*	*112 %*	*67-129*	*5C30035*	*EPA 8260B*	*03/30/15 22:29*	*MSZ*	

Description: 4501-TSW2 | **Lab Sample ID:** C502186-14 | **Received:** 03/20/15 11:30
Matrix: Surface Water | **Sampled:** 03/19/15 09:10 | **Work Order:** C502186
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
Surrogates	***Results***	***DF***	***Spike Lvl***	***% Rec***	***% Rec Limits***		***Batch***	***Method***	***Analyzed***	***By***	**Notes**
Toluene-d8	*53*	*1*	*50.0*	*105 %*	*59-134*		*5C30035*	*EPA 8260B*	*03/30/15 22:29*	*MSZ*	

Description: 4501-Field Blank | **Lab Sample ID:** C502186-15 | **Received:** 03/20/15 11:30

Matrix: Water | **Sampled:** 03/19/15 11:35 | **Work Order:** C502186

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	03/30/15 22:59	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	03/30/15 22:59	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	03/30/15 22:59	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/30/15 22:59	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	03/30/15 22:59	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/30/15 22:59	MSZ	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	03/30/15 22:59	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/30/15 22:59	MSZ	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	03/30/15 22:59	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/30/15 22:59	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/30/15 22:59	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	03/30/15 22:59	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	03/30/15 22:59	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	03/30/15 22:59	MSZ	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	03/30/15 22:59	MSZ	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	03/30/15 22:59	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	03/30/15 22:59	MSZ	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	03/30/15 22:59	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/30/15 22:59	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/30/15 22:59	MSZ	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	03/30/15 22:59	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/30/15 22:59	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/30/15 22:59	MSZ	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	03/30/15 22:59	MSZ	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	03/30/15 22:59	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/30/15 22:59	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/30/15 22:59	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	03/30/15 22:59	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/30/15 22:59	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	03/30/15 22:59	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	03/30/15 22:59	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/30/15 22:59	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/30/15 22:59	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	03/30/15 22:59	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	03/30/15 22:59	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	03/30/15 22:59	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/30/15 22:59	MSZ	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	03/30/15 22:59	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	03/30/15 22:59	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	03/30/15 22:59	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	03/30/15 22:59	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	03/30/15 22:59	MSZ	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	03/30/15 22:59	MSZ	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	03/30/15 22:59	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/30/15 22:59	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/30/15 22:59	MSZ	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	03/30/15 22:59	MSZ	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	03/30/15 22:59	MSZ	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	03/30/15 22:59	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/30/15 22:59	MSZ	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	03/30/15 22:59	MSZ	

Description: 4501-Field Blank | **Lab Sample ID:** C502186-15 | **Received:** 03/20/15 11:30

Matrix: Water | **Sampled:** 03/19/15 11:35 | **Work Order:** C502186

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
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	03/30/15 22:59	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	03/30/15 22:59	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/30/15 22:59	MSZ	
Tetrahydrofuran [109-99-9] ^	0.80	U	ug/L	1	0.80	1.0		EPA 8260B	03/30/15 22:59	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/30/15 22:59	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/30/15 22:59	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/30/15 22:59	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/30/15 22:59	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/30/15 22:59	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	03/30/15 22:59	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/30/15 22:59	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	03/30/15 22:59	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	03/30/15 22:59	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*93 %*	*53-136*	*5C30035*	*EPA 8260B*	*03/30/15 22:59*	*MSZ*	
Dibromofluoromethane	*55*	*1*	*50.0*	*110 %*	*67-129*	*5C30035*	*EPA 8260B*	*03/30/15 22:59*	*MSZ*	
Toluene-d8	*52*	*1*	*50.0*	*104 %*	*59-134*	*5C30035*	*EPA 8260B*	*03/30/15 22:59*	*MSZ*	

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Description: 4501-Field Blank | **Lab Sample ID:** C502186-15 | **Received:** 03/20/15 11:30

Matrix: Water | **Sampled:** 03/19/15 11:35 | **Work Order:** C502186

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
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	03/27/15 04:50	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	03/27/15 04:50	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	03/27/15 04:50	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	03/27/15 04:50	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	03/27/15 04:50	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	03/27/15 04:50	DFM	QV-02
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	03/27/15 04:50	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/27/15 04:50	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/27/15 04:50	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/27/15 04:50	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 04:50	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	03/27/15 04:50	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	03/27/15 04:50	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/27/15 04:50	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	03/27/15 04:50	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	03/27/15 04:50	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/27/15 04:50	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/27/15 04:50	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	03/27/15 04:50	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	03/27/15 04:50	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/27/15 04:50	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	03/27/15 04:50	DFM	QV-02
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	03/27/15 04:50	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/27/15 04:50	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	03/27/15 04:50	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	03/27/15 04:50	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	03/27/15 04:50	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 04:50	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	03/27/15 04:50	DFM	QV-01
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	03/27/15 04:50	DFM	QV-02
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/27/15 04:50	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	03/27/15 04:50	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	03/27/15 04:50	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	03/27/15 04:50	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	03/27/15 04:50	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	03/27/15 04:50	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	03/27/15 04:50	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/27/15 04:50	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/27/15 04:50	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/27/15 04:50	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 04:50	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	03/27/15 04:50	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 04:50	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 04:50	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/27/15 04:50	DFM	
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	03/27/15 04:50	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 04:50	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	03/27/15 04:50	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/27/15 04:50	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/27/15 04:50	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 04:50	DFM	

Description: 4501-Field Blank | **Lab Sample ID:** C502186-15 | **Received:** 03/20/15 11:30

Matrix: Water | **Sampled:** 03/19/15 11:35 | **Work Order:** C502186

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	03/27/15 04:50	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	03/27/15 04:50	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/27/15 04:50	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	03/27/15 04:50	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/27/15 04:50	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	03/27/15 04:50	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/27/15 04:50	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	03/27/15 04:50	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	03/27/15 04:50	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/27/15 04:50	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	03/27/15 04:50	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	03/27/15 04:50	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/27/15 04:50	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	03/27/15 04:50	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	03/27/15 04:50	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	03/27/15 04:50	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	03/27/15 04:50	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/27/15 04:50	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/27/15 04:50	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 04:50	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/27/15 04:50	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	03/27/15 04:50	DFM	QV-01
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	03/27/15 04:50	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	03/27/15 04:50	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 04:50	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 04:50	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	03/27/15 04:50	DFM	
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	03/27/15 04:50	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/27/15 04:50	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	03/27/15 04:50	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/27/15 04:50	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	03/27/15 04:50	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 04:50	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/27/15 04:50	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	03/27/15 04:50	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	03/27/15 04:50	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	03/27/15 04:50	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	03/27/15 04:50	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 04:50	DFM	
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 04:50	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	03/27/15 04:50	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	03/27/15 04:50	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/27/15 04:50	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	03/27/15 04:50	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	03/27/15 04:50	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	03/27/15 04:50	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/27/15 04:50	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/27/15 04:50	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	03/27/15 04:50	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	03/27/15 04:50	DFM	

Description: 4501-Field Blank | **Lab Sample ID:** C502186-15 | **Received:** 03/20/15 11:30

Matrix: Water | **Sampled:** 03/19/15 11:35 | **Work Order:** C502186

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
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	03/27/15 04:50	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	03/27/15 04:50	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	03/27/15 04:50	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*69*	*1*	*100*	*69 %*	*10-179*	*5C23026*	*EPA 8270D*	*03/27/15 04:50*	*DFM*	
2-Fluorobiphenyl	*40*	*1*	*50.0*	*81 %*	*10-149*	*5C23026*	*EPA 8270D*	*03/27/15 04:50*	*DFM*	
2-Fluorophenol	*58*	*1*	*100*	*58 %*	*10-110*	*5C23026*	*EPA 8270D*	*03/27/15 04:50*	*DFM*	
Nitrobenzene-d5	*37*	*1*	*50.0*	*75 %*	*10-149*	*5C23026*	*EPA 8270D*	*03/27/15 04:50*	*DFM*	
Phenol-d5	*51*	*1*	*100*	*51 %*	*10-88*	*5C23026*	*EPA 8270D*	*03/27/15 04:50*	*DFM*	
Terphenyl-d14	*39*	*1*	*50.0*	*78 %*	*10-188*	*5C23026*	*EPA 8270D*	*03/27/15 04:50*	*DFM*	

Description: 4501-Field Blank | **Lab Sample ID:** C502186-15 | **Received:** 03/20/15 11:30

Matrix: Water | **Sampled:** 03/19/15 11:35 | **Work Order:** C502186

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

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	03/27/15 16:00	MWC	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	03/27/15 16:00	MWC	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	03/27/15 16:00	MWC	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	03/27/15 16:00	MWC	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	03/27/15 16:00	MWC	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	03/27/15 16:00	MWC	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	03/27/15 16:00	MWC	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	03/27/15 16:00	MWC	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	03/27/15 16:00	MWC	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	03/27/15 16:00	MWC	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	03/27/15 16:00	MWC	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	03/27/15 16:00	MWC	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	03/27/15 16:00	MWC	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	03/27/15 16:00	MWC	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	03/27/15 16:00	MWC	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	03/27/15 16:00	MWC	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	03/27/15 16:00	MWC	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	03/27/15 16:00	MWC	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	03/27/15 16:00	MWC	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	03/27/15 16:00	MWC	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	03/27/15 16:00	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.84*	*1*	*1.00*	*84 %*	*44-134*	*5C25001*	*EPA 8081B*	*03/27/15 16:00*	*MWC*	
Decachlorobiphenyl	*0.62*	*1*	*1.00*	*62 %*	*37-149*	*5C25001*	*EPA 8081B*	*03/27/15 16:00*	*MWC*	

Description: 4501-Field Blank | **Lab Sample ID:** C502186-15 | **Received:** 03/20/15 11:30

Matrix: Water | **Sampled:** 03/19/15 11:35 | **Work Order:** C502186

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

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.43	U	ug/L	1	0.43	0.50	2	EPA 8082A	03/27/15 16:00	MWC	
PCB-1221 [11104-28-2] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	03/27/15 16:00	MWC	
PCB-1232 [11141-16-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	03/27/15 16:00	MWC	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	03/27/15 16:00	MWC	
PCB-1254 [11097-69-1] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	03/27/15 16:00	MWC	
PCB-1260 [11096-82-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	03/27/15 16:00	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.84*	*1*	*1.00*	*84 %*	*45-151*	*5C25002*	*EPA 8082A*	*03/27/15 16:00*	*MWC*	
Decachlorobiphenyl	*0.62*	*1*	*1.00*	*62 %*	*42-159*	*5C25002*	*EPA 8082A*	*03/27/15 16:00*	*MWC*	

Description: 4501-Field Blank | **Lab Sample ID:** C502186-15 | **Received:** 03/20/15 11:30

Matrix: Water | **Sampled:** 03/19/15 11:35 | **Work Order:** C502186

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	04/01/15 16:41	T1D	

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Description: 4501-Field Blank | **Lab Sample ID:** C502186-15 | **Received:** 03/20/15 11:30

Matrix: Water | **Sampled:** 03/19/15 11:35 | **Work Order:** C502186

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	03/31/15 13:10	VLO	
Arsenic [7440-38-2] ^	6.80	U	ug/L	1	6.80	10.0	10	EPA 6010C	03/26/15 14:14	JDH	
Barium [7440-39-3] ^	1.00	U	ug/L	1	1.00	10.0	100	EPA 6010C	03/26/15 14:14	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	03/26/15 14:14	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/26/15 14:14	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	03/26/15 14:14	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	03/26/15 14:14	JDH	
Copper [7440-50-8] ^	**1.74**	J	ug/L	1	1.60	10.0	10	EPA 6010C	03/26/15 14:14	JDH	
Iron [7439-89-6] ^	22.0	U	ug/L	1	22.0	50.0	300	EPA 6010C	03/26/15 14:14	JDH	
Lead [7439-92-1] ^	3.10	U	ug/L	1	3.10	10.0	10	EPA 6010C	03/26/15 14:14	JDH	
Manganese [7439-96-5] ^	**1.34**	J	ug/L	1	1.10	10.0	50	EPA 6010C	03/26/15 14:14	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	03/26/15 14:14	JDH	
Selenium [7782-49-2] ^	5.00	U	ug/L	1	5.00	10.0	10	EPA 6010C	03/26/15 14:14	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/26/15 14:14	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/31/15 13:10	VLO	
Tin [7440-31-5] ^	2.40	U	ug/L	1	2.40	10.0	100	EPA 6010C	03/26/15 14:14	JDH	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	03/26/15 14:14	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	03/26/15 14:14	JDH	

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

Lab Sample ID: C502186-15
Sampled: 03/19/15 11:35
Sampled By: A. Stoddard

Received: 03/20/15 11:30
Work Order: C502186

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	4.9	U	ug/L	1	4.9	10	10	EPA 9014	03/23/15 17:38	AJB	
Sulfide [18496-25-8] ^	10	U	ug/L	1	10	100	1000	SM 4500S2 D-2000	03/23/15 16:10	JOC	

Description: 4501-Field Blank | **Lab Sample ID:** C502186-15 | **Received:** 03/20/15 11:30

Matrix: Water | **Sampled:** 03/19/15 11:35 | **Work Order:** C502186

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
2,4,5-T [93-76-5] ^	0.28	U	ug/L	1	0.28	0.50	2	EPA 8151A	04/01/15 23:51	rc	
2,4,5-TP (Silvex) [93-72-1] ^	0.44	U	ug/L	1	0.44	0.50	2	EPA 8151A	04/01/15 23:51	rc	
2,4-D [94-75-7] ^	0.27	U	ug/L	1	0.27	0.50	2	EPA 8151A	04/01/15 23:51	rc	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	04/01/15 23:51	rc	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	04/01/15 23:51	rc	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*1.6*	*1*	*2.00*	*82 %*	*48-151*	*5C25005*	*EPA 8151A*	*04/01/15 23:51*	*rc*	

Description: 4501-Trip Blank | **Lab Sample ID:** C502186-16 | **Received:** 03/20/15 11:30

Matrix: Water | **Sampled:** 03/17/15 16:37 | **Work Order:** C502186

Project: Henderson Co. LF | **Sampled By:** ENCO

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	03/28/15 01:49	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	03/28/15 01:49	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	03/28/15 01:49	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/28/15 01:49	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	03/28/15 01:49	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/28/15 01:49	MSZ	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	03/28/15 01:49	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/28/15 01:49	MSZ	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	03/28/15 01:49	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/28/15 01:49	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/28/15 01:49	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	03/28/15 01:49	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	03/28/15 01:49	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	03/28/15 01:49	MSZ	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	03/28/15 01:49	MSZ	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	03/28/15 01:49	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	03/28/15 01:49	MSZ	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	03/28/15 01:49	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/28/15 01:49	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/28/15 01:49	MSZ	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	03/28/15 01:49	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/28/15 01:49	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/28/15 01:49	MSZ	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	03/28/15 01:49	MSZ	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	03/28/15 01:49	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/28/15 01:49	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/28/15 01:49	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	03/28/15 01:49	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/28/15 01:49	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	03/28/15 01:49	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	03/28/15 01:49	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/28/15 01:49	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/28/15 01:49	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	03/28/15 01:49	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	03/28/15 01:49	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	03/28/15 01:49	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/28/15 01:49	MSZ	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	03/28/15 01:49	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	03/28/15 01:49	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	03/28/15 01:49	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	03/28/15 01:49	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	03/28/15 01:49	MSZ	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	03/28/15 01:49	MSZ	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	03/28/15 01:49	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/28/15 01:49	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/28/15 01:49	MSZ	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	03/28/15 01:49	MSZ	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	03/28/15 01:49	MSZ	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	03/28/15 01:49	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/28/15 01:49	MSZ	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	03/28/15 01:49	MSZ	

Description: 4501-Trip Blank | **Lab Sample ID:** C502186-16 | **Received:** 03/20/15 11:30

Matrix: Water | **Sampled:** 03/17/15 16:37 | **Work Order:** C502186

Project: Henderson Co. LF | **Sampled By:** ENCO

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	03/28/15 01:49	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	03/28/15 01:49	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/28/15 01:49	MSZ	
Tetrahydrofuran [109-99-9] ^	0.80	U	ug/L	1	0.80	1.0		EPA 8260B	03/28/15 01:49	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/28/15 01:49	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/28/15 01:49	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/28/15 01:49	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/28/15 01:49	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/28/15 01:49	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	03/28/15 01:49	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/28/15 01:49	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	03/28/15 01:49	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	03/28/15 01:49	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*92 %*	*53-136*	*5C27025*	*EPA 8260B*	*03/28/15 01:49*	*MSZ*	
Dibromofluoromethane	*58*	*1*	*50.0*	*116 %*	*67-129*	*5C27025*	*EPA 8260B*	*03/28/15 01:49*	*MSZ*	
Toluene-d8	*55*	*1*	*50.0*	*110 %*	*59-134*	*5C27025*	*EPA 8260B*	*03/28/15 01:49*	*MSZ*	

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 5C27025 - EPA 5030B_MS

Blank (5C27025-BLK1) Prepared: 03/27/2015 14:08 Analyzed: 03/27/2015 23:22

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							
1,1-Dichloropropene	0.15	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.14	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							
1,3-Dichlorobenzene	0.15	U	1.0	ug/L							
1,3-Dichloropropane	0.16	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2,2-Dichloropropane	0.28	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
3-Chloropropene	0.11	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acetonitrile	5.0	U	10	ug/L							
Acrolein	4.0	U	10	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							
Chloroprene	0.64	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							
Dichlorodifluoromethane	0.20	U	1.0	ug/L							
Ethyl Methacrylate	0.38	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
Isobutyl alcohol	11	U	50	ug/L							
Methacrylonitrile	4.9	U	10	ug/L							
Methyl Methacrylate	0.51	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 5C27025 - EPA 5030B_MS

Blank (5C27025-BLK1) Continued Prepared: 03/27/2015 14:08 Analyzed: 03/27/2015 23:22

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Methylene chloride	0.23	U	1.0	ug/L							
Naphthalene	0.11	U	1.0	ug/L							
Propionitrile	5.0	U	10	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	*47*			*ug/L*	*50.0*		*94*	*53-136*			
Surrogate: Dibromofluoromethane	*58*			*ug/L*	*50.0*		*115*	*67-129*			
Surrogate: Toluene-d8	*54*			*ug/L*	*50.0*		*108*	*59-134*			

LCS (5C27025-BS1) Prepared: 03/27/2015 14:08 Analyzed: 03/27/2015 23:51

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	25		1.0	ug/L	20.0		125	75-133			
Benzene	22		1.0	ug/L	20.0		111	81-134			
Chlorobenzene	21		1.0	ug/L	20.0		106	83-117			
Toluene	21		1.0	ug/L	20.0		103	71-118			
Trichloroethene	22		1.0	ug/L	20.0		110	74-119			

Matrix Spike (5C27025-MS1) Prepared: 03/27/2015 14:08 Analyzed: 03/28/2015 00:21

Source: C503600-11

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	116	75-133			
Benzene	22		1.0	ug/L	20.0	0.15 U	109	81-134			
Chlorobenzene	21		1.0	ug/L	20.0	0.17 U	104	83-117			
Toluene	20		1.0	ug/L	20.0	0.14 U	102	71-118			
Trichloroethene	22		1.0	ug/L	20.0	0.15 U	109	74-119			

Matrix Spike Dup (5C27025-MSD1) Prepared: 03/27/2015 14:08 Analyzed: 03/28/2015 00:50

Source: C503600-11

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	115	75-133	1	20	
Benzene	21		1.0	ug/L	20.0	0.15 U	106	81-134	2	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.17 U	102	83-117	2	16	
Toluene	20		1.0	ug/L	20.0	0.14 U	102	71-118	0.05	17	
Trichloroethene	21		1.0	ug/L	20.0	0.15 U	105	74-119	4	22	

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 5C27025 - EPA 5030B_MS

Batch 5C30035 - EPA 5030B_MS

Blank (5C30035-BLK1) Prepared: 03/30/2015 17:17 Analyzed: 03/30/2015 17:36

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							
1,1-Dichloropropene	0.15	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.14	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							
1,3-Dichlorobenzene	0.15	U	1.0	ug/L							
1,3-Dichloropropane	0.16	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2,2-Dichloropropane	0.28	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
3-Chloropropene	0.11	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acetonitrile	5.0	U	10	ug/L							
Acrolein	4.0	U	10	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							
Chloroprene	0.64	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							
Dichlorodifluoromethane	0.20	U	1.0	ug/L							
Ethyl Methacrylate	0.38	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							

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Volatile Organic Compounds by GCMS - Quality Control

Batch 5C30035 - EPA 5030B_MS

Blank (5C30035-BLK1) Continued Prepared: 03/30/2015 17:17 Analyzed: 03/30/2015 17:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Isobutyl alcohol	11	U	50	ug/L							
Methacrylonitrile	4.9	U	10	ug/L							
Methyl Methacrylate	0.51	U	1.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
Naphthalene	0.11	U	1.0	ug/L							
Propionitrile	5.0	U	10	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	*46*			*ug/L*	*50.0*		*92*	*53-136*			
Surrogate: Dibromofluoromethane	*53*			*ug/L*	*50.0*		*107*	*67-129*			
Surrogate: Toluene-d8	*51*			*ug/L*	*50.0*		*102*	*59-134*			

LCS (5C30035-BS1) Prepared: 03/30/2015 17:17 Analyzed: 03/30/2015 18:34

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		110	75-133			
Benzene	22		1.0	ug/L	20.0		109	81-134			
Chlorobenzene	22		1.0	ug/L	20.0		112	83-117			
Toluene	21		1.0	ug/L	20.0		103	71-118			
Trichloroethene	24		1.0	ug/L	20.0		118	74-119			

Matrix Spike (5C30035-MS1) Prepared: 03/30/2015 17:17 Analyzed: 03/30/2015 18:05

Source: C503934-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0	0.21 U	107	75-133			
Benzene	20		1.0	ug/L	20.0	0.15 U	102	81-134			
Chlorobenzene	21		1.0	ug/L	20.0	0.17 U	106	83-117			
Toluene	20		1.0	ug/L	20.0	0.14 U	100	71-118			
Trichloroethene	24		1.0	ug/L	20.0	0.15 U	121	74-119			QM-07

Matrix Spike Dup (5C30035-MSD1) Prepared: 03/30/2015 17:17 Analyzed: 03/30/2015 19:04

Source: C503934-07

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	2	20	
Benzene	22		1.0	ug/L	20.0	0.15 U	110	81-134	7	17	

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Volatile Organic Compounds by GCMS - Quality Control

Batch 5C30035 - EPA 5030B_MS

Matrix Spike Dup (5C30035-MSD1) Continued Prepared: 03/30/2015 17:17 Analyzed: 03/30/2015 19:04

Source: C503934-07

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	107	83-117	2	16	
Toluene	21		1.0	ug/L	20.0	0.14 U	105	71-118	5	17	
Trichloroethene	25		1.0	ug/L	20.0	0.15 U	127	74-119	5	22	QM-07

Batch 5C31029 - EPA 5030B_MS

Blank (5C31029-BLK1) Prepared: 03/31/2015 08:17 Analyzed: 03/31/2015 10:50

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							
1,1-Dichloropropene	0.15	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.14	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							
1,3-Dichlorobenzene	0.15	U	1.0	ug/L							
1,3-Dichloropropane	0.16	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2,2-Dichloropropane	0.28	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
3-Chloropropene	0.11	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acetonitrile	5.0	U	10	ug/L							
Acrolein	4.0	U	10	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							
Chloroprene	0.64	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 5C31029 - EPA 5030B_MS

Blank (5C31029-BLK1) Continued Prepared: 03/31/2015 08:17 Analyzed: 03/31/2015 10:50

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							
Dichlorodifluoromethane	0.20	U	1.0	ug/L							
Ethyl Methacrylate	0.38	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
Isobutyl alcohol	11	U	50	ug/L							
Methacrylonitrile	4.9	U	10	ug/L							
Methyl Methacrylate	0.51	U	1.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
Naphthalene	0.11	U	1.0	ug/L							
Propionitrile	5.0	U	10	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	*54*			*ug/L*	*50.0*		*107*	*53-136*			
Surrogate: Dibromofluoromethane	*50*			*ug/L*	*50.0*		*101*	*67-129*			
Surrogate: Toluene-d8	*55*			*ug/L*	*50.0*		*109*	*59-134*			

LCS (5C31029-BS1) Prepared: 03/31/2015 08:17 Analyzed: 03/31/2015 11:19

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		93	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		101	83-117			
Toluene	17		1.0	ug/L	20.0		87	71-118			
Trichloroethene	23		1.0	ug/L	20.0		113	74-119			

Matrix Spike (5C31029-MS1) Prepared: 03/31/2015 08:17 Analyzed: 03/31/2015 11:48

Source: C503934-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	17		1.0	ug/L	20.0	0.21 U	87	75-133			
Benzene	18		1.0	ug/L	20.0	0.15 U	92	81-134			
Chlorobenzene	21		1.0	ug/L	20.0	0.17 U	104	83-117			
Toluene	18		1.0	ug/L	20.0	0.14 U	92	71-118			
Trichloroethene	22		1.0	ug/L	20.0	0.15 U	109	74-119			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 5C31029 - EPA 5030B_MS

Matrix Spike Dup (5C31029-MSD1) Prepared: 03/31/2015 08:17 Analyzed: 03/31/2015 12:17

Source: C503934-10

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	100	75-133	15	20	
Benzene	19		1.0	ug/L	20.0	0.15 U	93	81-134	0.8	17	
Chlorobenzene	19		1.0	ug/L	20.0	0.17 U	95	83-117	9	16	
Toluene	18		1.0	ug/L	20.0	0.14 U	89	71-118	3	17	
Trichloroethene	22		1.0	ug/L	20.0	0.15 U	109	74-119	0.2	22	

Batch 5C31033 - EPA 5030B_MS

Blank (5C31033-BLK1) Prepared: 03/31/2015 15:21 Analyzed: 04/01/2015 10:25

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							
1,1-Dichloropropene	0.15	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.14	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							
1,3-Dichlorobenzene	0.15	U	1.0	ug/L							
1,3-Dichloropropane	0.16	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2,2-Dichloropropane	0.28	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
3-Chloropropene	0.11	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acetonitrile	5.0	U	10	ug/L							
Acrolein	4.0	U	10	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							

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Volatile Organic Compounds by GCMS - Quality Control

Batch 5C31033 - EPA 5030B_MS

Blank (5C31033-BLK1) Continued Prepared: 03/31/2015 15:21 Analyzed: 04/01/2015 10:25

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloromethane	0.13	U	1.0	ug/L							
Chloroprene	0.64	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							
Dichlorodifluoromethane	0.20	U	1.0	ug/L							
Ethyl Methacrylate	0.38	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
Isobutyl alcohol	11	U	50	ug/L							
Methacrylonitrile	4.9	U	10	ug/L							
Methyl Methacrylate	0.51	U	1.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
Naphthalene	0.11	U	1.0	ug/L							
Propionitrile	5.0	U	10	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	*55*			*ug/L*	*50.0*		*110*	*53-136*			
Surrogate: Dibromofluoromethane	*52*			*ug/L*	*50.0*		*105*	*67-129*			
Surrogate: Toluene-d8	*54*			*ug/L*	*50.0*		*108*	*59-134*			

LCS (5C31033-BS1) Prepared: 03/31/2015 15:21 Analyzed: 04/01/2015 10:56

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		99	75-133			
Benzene	18		1.0	ug/L	20.0		91	81-134			
Chlorobenzene	19		1.0	ug/L	20.0		97	83-117			
Toluene	17		1.0	ug/L	20.0		87	71-118			
Trichloroethene	24		1.0	ug/L	20.0		118	74-119			

Matrix Spike (5C31033-MS1) Prepared: 03/31/2015 15:21 Analyzed: 04/01/2015 11:25

Source: C502186-04

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	20		1.0	ug/L	20.0	0.15 U	102	81-134			
Chlorobenzene	22		1.0	ug/L	20.0	0.17 U	109	83-117			
Toluene	20		1.0	ug/L	20.0	0.14 U	98	71-118			

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Volatile Organic Compounds by GCMS - Quality Control

Batch 5C31033 - EPA 5030B_MS

Matrix Spike (5C31033-MS1) Continued Prepared: 03/31/2015 15:21 Analyzed: 04/01/2015 11:25

Source: C502186-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Trichloroethene	25		1.0	ug/L	20.0	0.15 U	124	74-119			QM-07

Matrix Spike Dup (5C31033-MSD1) Prepared: 03/31/2015 15:21 Analyzed: 04/01/2015 11:54

Source: C502186-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.21 U	108	75-133	4	20	
Benzene	20		1.0	ug/L	20.0	0.15 U	98	81-134	4	17	
Chlorobenzene	21		1.0	ug/L	20.0	0.17 U	103	83-117	6	16	
Toluene	20		1.0	ug/L	20.0	0.14 U	98	71-118	0.3	17	
Trichloroethene	23		1.0	ug/L	20.0	0.15 U	117	74-119	7	22	

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 5C23026 - EPA 3510C_MS

Blank (5C23026-BLK1) Prepared: 03/23/2015 14:47 Analyzed: 03/27/2015 01:09

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,4,5-Tetrachlorobenzene	2.0	U	10	ug/L							
1,3,5-Trinitrobenzene	3.0	U	10	ug/L							
1,3-Dinitrobenzene	1.9	U	10	ug/L							
1,4-Naphthoquinone	2.5	U	10	ug/L							
1,4-Phenylenediamine	4.0	U	10	ug/L							
1-Naphthylamine	1.9	U	10	ug/L							QV-02
2,3,4,6-Tetrachlorophenol	2.0	U	10	ug/L							
2,4,5-Trichlorophenol	1.0	U	10	ug/L							
2,4,6-Trichlorophenol	1.1	U	10	ug/L							
2,4-Dichlorophenol	1.4	U	10	ug/L							
2,4-Dimethylphenol	1.3	U	10	ug/L							
2,4-Dinitrophenol	2.6	U	10	ug/L							
2,4-Dinitrotoluene	2.4	U	10	ug/L							
2,6-Dichlorophenol	1.1	U	10	ug/L							
2,6-Dinitrotoluene	1.5	U	10	ug/L							
2-Acetylaminofluorene	2.5	U	10	ug/L							
2-Chloronaphthalene	1.0	U	10	ug/L							
2-Chlorophenol	1.2	U	10	ug/L							
2-Methyl-4,6-dinitrophenol	2.9	U	10	ug/L							
2-Methylnaphthalene	1.5	U	10	ug/L							
2-Methylphenol	1.4	U	10	ug/L							
2-Naphthylamine	3.0	U	10	ug/L							QV-02
2-Nitroaniline	1.5	U	10	ug/L							
2-Nitrophenol	1.1	U	10	ug/L							
3 & 4-Methylphenol	1.6	U	10	ug/L							
3,3'-Dichlorobenzidine	3.3	U	10	ug/L							
3,3'-Dimethylbenzidine	2.2	U	10	ug/L							
3-Methylcholanthrene	1.3	U	10	ug/L							

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 5C23026 - EPA 3510C_MS

Blank (5C23026-BLK1) Continued Prepared: 03/23/2015 14:47 Analyzed: 03/27/2015 01:09

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
3-Nitroaniline	2.1	U	10	ug/L							QV-01
4-Aminobiphenyl	2.1	U	10	ug/L							QV-02
4-Bromophenyl-phenylether	1.0	U	10	ug/L							
4-Chloro-3-methylphenol	1.5	U	10	ug/L							
4-Chloroaniline	1.2	U	10	ug/L							
4-Chlorophenyl-phenylether	1.6	U	10	ug/L							
4-Nitroaniline	3.2	U	10	ug/L							
4-Nitrophenol	2.0	U	10	ug/L							
5-Nitro-o-toluidine	3.2	U	10	ug/L							
7,12-Dimethylbenz(a)anthracene	1.1	U	10	ug/L							
Acenaphthene	1.4	U	10	ug/L							
Acenaphthylene	1.2	U	10	ug/L							
Acetophenone	1.3	U	10	ug/L							
Anthracene	1.6	U	10	ug/L							
Benzo(a)anthracene	1.3	U	10	ug/L							
Benzo(a)pyrene	1.3	U	10	ug/L							
Benzo(b)fluoranthene	1.0	U	10	ug/L							
Benzo(g,h,i)perylene	2.4	U	10	ug/L							
Benzo(k)fluoranthene	1.3	U	10	ug/L							
Benzyl alcohol	1.4	U	10	ug/L							
Bis(2-chloroethoxy)methane	1.4	U	10	ug/L							
Bis(2-chloroethyl)ether	1.2	U	10	ug/L							
Bis(2-chloroisopropyl)ether	1.3	U	10	ug/L							
Bis(2-ethylhexyl)phthalate	1.7	U	5.0	ug/L							
Butylbenzylphthalate	2.0	U	10	ug/L							
Chlorobenzilate	1.0	U	10	ug/L							
Chrysene	2.0	U	10	ug/L							
Diallate	1.0	U	10	ug/L							
Dibenzo(a,h)anthracene	2.3	U	10	ug/L							
Dibenzofuran	1.4	U	10	ug/L							
Diethylphthalate	2.1	U	10	ug/L							
Dimethoate	2.3	U	10	ug/L							
Dimethylphthalate	1.4	U	10	ug/L							
Di-n-butylphthalate	1.5	U	10	ug/L							
Di-n-octylphthalate	3.1	U	10	ug/L							
Disulfoton	1.1	U	10	ug/L							
Ethyl methanesulfonate	1.2	U	10	ug/L							
Famphur	2.7	U	10	ug/L							
Fluoranthene	2.1	U	10	ug/L							
Fluorene	1.7	U	10	ug/L							
Hexachlorobenzene	1.0	U	10	ug/L							
Hexachlorobutadiene	1.2	U	10	ug/L							
Hexachlorocyclopentadiene	1.3	U	10	ug/L							
Hexachloroethane	1.1	U	10	ug/L							
Hexachloropropene	1.7	U	10	ug/L							QV-01
Indeno(1,2,3-cd)pyrene	2.2	U	10	ug/L							
Isodrin	1.0	U	10	ug/L							
Isophorone	1.3	U	10	ug/L							
Isosafrole	1.3	U	10	ug/L							

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 5C23026 - EPA 3510C_MS

Blank (5C23026-BLK1) Continued Prepared: 03/23/2015 14:47 Analyzed: 03/27/2015 01:09

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Kepone	7.2	U	20	ug/L							
Methapyrilene	3.5	U	10	ug/L							
Methyl Methanesulfonate	1.0	U	10	ug/L							
Methyl parathion	2.5	U	10	ug/L							
Nitrobenzene	1.2	U	10	ug/L							
N-Nitrosodiethylamine	1.3	U	10	ug/L							
N-Nitrosodimethylamine	1.3	U	10	ug/L							
N-Nitrosodi-n-butylamine	1.2	U	10	ug/L							
N-Nitroso-di-n-propylamine	1.5	U	10	ug/L							
N-nitrosodiphenylamine/Diphenylamine	2.1	U	10	ug/L							
N-Nitrosomethylethylamine	1.9	U	10	ug/L							
N-Nitrosopiperidine	1.1	U	10	ug/L							
N-Nitrosopyrrolidine	1.3	U	10	ug/L							
O,O,O-Triethyl phosphorothioate	1.3	U	10	ug/L							
o-Toluidine	1.1	U	10	ug/L							
Parathion	1.7	U	10	ug/L							
p-Dimethylaminoazobenzene	1.4	U	10	ug/L							
Pentachlorobenzene	1.3	U	10	ug/L							
Pentachloronitrobenzene	1.0	U	10	ug/L							
Phenacetin	2.7	U	10	ug/L							
Phenanthrene	1.4	U	10	ug/L							
Phenol	1.4	U	10	ug/L							
Phorate	1.0	U	10	ug/L							
Pronamide	1.4	U	10	ug/L							
Pyrene	2.1	U	10	ug/L							
Safrole	1.2	U	10	ug/L							
Thionazin	2.3	U	10	ug/L							
Surrogate: 2,4,6-Tribromophenol	*88*			*ug/L*	*100*		*88*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*41*			*ug/L*	*50.0*		*81*	*10-149*			
Surrogate: 2-Fluorophenol	*62*			*ug/L*	*100*		*62*	*10-110*			
Surrogate: Nitrobenzene-d5	*39*			*ug/L*	*50.0*		*78*	*10-149*			
Surrogate: Phenol-d5	*54*			*ug/L*	*100*		*54*	*10-88*			
Surrogate: Terphenyl-d14	*45*			*ug/L*	*50.0*		*90*	*10-188*			

LCS (5C23026-BS1) Prepared: 03/23/2015 14:47 Analyzed: 03/27/2015 01:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	37		10	ug/L	50.0		74	40-109			
4-Chloro-3-methylphenol	41		10	ug/L	50.0		82	58-121			
4-Nitrophenol	29		10	ug/L	50.0		59	33-105			
Acenaphthene	42		10	ug/L	50.0		83	39-125			
N-Nitroso-di-n-propylamine	38		10	ug/L	50.0		76	48-126			
Phenol	25		10	ug/L	50.0		51	19-78			
Pyrene	41		10	ug/L	50.0		81	44-137			
Surrogate: 2,4,6-Tribromophenol	*93*			*ug/L*	*100*		*93*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*42*			*ug/L*	*50.0*		*84*	*10-149*			
Surrogate: 2-Fluorophenol	*59*			*ug/L*	*100*		*59*	*10-110*			
Surrogate: Nitrobenzene-d5	*38*			*ug/L*	*50.0*		*77*	*10-149*			

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 5C23026 - EPA 3510C_MS

LCS (5C23026-BS1) Continued Prepared: 03/23/2015 14:47 Analyzed: 03/27/2015 01:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Phenol-d5	*50*			*ug/L*	*100*		*50*	*10-88*			
Surrogate: Terphenyl-d14	*43*			*ug/L*	*50.0*		*86*	*10-188*			

Matrix Spike (5C23026-MS1) Prepared: 03/23/2015 14:47 Analyzed: 03/27/2015 02:04

Source: C502186-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	42		10	ug/L	50.0	1.2 U	84	40-109			
4-Chloro-3-methylphenol	51		10	ug/L	50.0	1.5 U	102	58-121			
4-Nitrophenol	32		10	ug/L	50.0	2.0 U	65	33-105			
Acenaphthene	46		10	ug/L	50.0	1.4 U	92	39-125			
N-Nitroso-di-n-propylamine	44		10	ug/L	50.0	1.5 U	87	48-126			
Phenol	29		10	ug/L	50.0	1.4 U	58	19-78			
Pyrene	40		10	ug/L	50.0	2.1 U	79	44-137			
Surrogate: 2,4,6-Tribromophenol	*100*			*ug/L*	*100*		*103*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*46*			*ug/L*	*50.0*		*92*	*10-149*			
Surrogate: 2-Fluorophenol	*66*			*ug/L*	*100*		*66*	*10-110*			
Surrogate: Nitrobenzene-d5	*47*			*ug/L*	*50.0*		*93*	*10-149*			
Surrogate: Phenol-d5	*57*			*ug/L*	*100*		*57*	*10-88*			
Surrogate: Terphenyl-d14	*42*			*ug/L*	*50.0*		*84*	*10-188*			

Matrix Spike Dup (5C23026-MSD1) Prepared: 03/23/2015 14:47 Analyzed: 03/27/2015 02:32

Source: C502186-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	40		10	ug/L	50.0	1.2 U	80	40-109	5	22	
4-Chloro-3-methylphenol	49		10	ug/L	50.0	1.5 U	98	58-121	4	22	
4-Nitrophenol	31		10	ug/L	50.0	2.0 U	62	33-105	5	27	
Acenaphthene	43		10	ug/L	50.0	1.4 U	87	39-125	6	25	
N-Nitroso-di-n-propylamine	41		10	ug/L	50.0	1.5 U	83	48-126	6	23	
Phenol	30		10	ug/L	50.0	1.4 U	60	19-78	2	18	
Pyrene	38		10	ug/L	50.0	2.1 U	76	44-137	5	24	
Surrogate: 2,4,6-Tribromophenol	*96*			*ug/L*	*100*		*96*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*41*			*ug/L*	*50.0*		*83*	*10-149*			
Surrogate: 2-Fluorophenol	*60*			*ug/L*	*100*		*60*	*10-110*			
Surrogate: Nitrobenzene-d5	*43*			*ug/L*	*50.0*		*86*	*10-149*			
Surrogate: Phenol-d5	*53*			*ug/L*	*100*		*53*	*10-88*			
Surrogate: Terphenyl-d14	*39*			*ug/L*	*50.0*		*77*	*10-188*			

Organochlorine Pesticides by GC - Quality Control

Batch 5C25001 - EPA 3510C

Blank (5C25001-BLK1) Prepared: 03/25/2015 08:45 Analyzed: 03/27/2015 13:21

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.044	U	0.050	ug/L							
4,4'-DDE	0.048	U	0.050	ug/L							

QUALITY CONTROL

Organochlorine Pesticides by GC - Quality Control

Batch 5C25001 - EPA 3510C

Blank (5C25001-BLK1) Continued Prepared: 03/25/2015 08:45 Analyzed: 03/27/2015 13:21

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	0.049	U	0.050	ug/L							
Aldrin	0.041	U	0.050	ug/L							
alpha-BHC	0.036	U	0.050	ug/L							
beta-BHC	0.036	U	0.050	ug/L							
Chlordane (tech)	0.20	U	0.50	ug/L							
Chlordane-alpha	0.048	U	0.050	ug/L							
Chlordane-gamma	0.042	U	0.050	ug/L							
delta-BHC	0.048	U	0.050	ug/L							
Dieldrin	0.045	U	0.050	ug/L							
Endosulfan I	0.045	U	0.050	ug/L							
Endosulfan II	0.036	U	0.050	ug/L							
Endosulfan sulfate	0.032	U	0.050	ug/L							
Endrin	0.041	U	0.050	ug/L							
Endrin aldehyde	0.042	U	0.050	ug/L							
gamma-BHC	0.034	U	0.050	ug/L							
Heptachlor	0.030	U	0.050	ug/L							
Heptachlor epoxide	0.037	U	0.050	ug/L							
Methoxychlor	0.025	U	0.050	ug/L							
Toxaphene	0.22	U	0.50	ug/L							
Surrogate: 2,4,5,6-TCMX	*1.0*			*ug/L*	*1.00*		*100*	*44-134*			
Surrogate: Decachlorobiphenyl	*0.82*			*ug/L*	*1.00*		*82*	*37-149*			

LCS (5C25001-BS1) Prepared: 03/25/2015 08:45 Analyzed: 03/27/2015 13:34

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	1.1		0.050	ug/L	1.00		106	37-139			
Dieldrin	1.1		0.050	ug/L	1.00		113	46-132			
Endrin	1.1		0.050	ug/L	1.00		115	43-133			
Surrogate: 2,4,5,6-TCMX	*0.88*			*ug/L*	*1.00*		*88*	*44-134*			
Surrogate: Decachlorobiphenyl	*0.75*			*ug/L*	*1.00*		*75*	*37-149*			

Matrix Spike (5C25001-MS1) Prepared: 03/25/2015 08:45 Analyzed: 03/27/2015 13:47

Source: C502186-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	1.3		0.050	ug/L	1.00	0.049 U	131	37-139			
Dieldrin	1.2		0.050	ug/L	1.00	0.045 U	115	46-132			
Endrin	1.3		0.050	ug/L	1.00	0.041 U	129	43-133			
Surrogate: 2,4,5,6-TCMX	*0.79*			*ug/L*	*1.00*		*79*	*44-134*			
Surrogate: Decachlorobiphenyl	*0.91*			*ug/L*	*1.00*		*91*	*37-149*			

Matrix Spike Dup (5C25001-MSD1) Prepared: 03/25/2015 08:45 Analyzed: 03/27/2015 14:01

Source: C502186-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	1.2		0.050	ug/L	1.00	0.049 U	120	37-139	8	26	

QUALITY CONTROL

Organochlorine Pesticides by GC - Quality Control

Batch 5C25001 - EPA 3510C

Matrix Spike Dup (5C25001-MSD1) Continued Prepared: 03/25/2015 08:45 Analyzed: 03/27/2015 14:01

Source: C502186-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Dieldrin	1.2		0.050	ug/L	1.00	0.045 U	116	46-132	0.9	27	
Endrin	1.3		0.050	ug/L	1.00	0.041 U	131	43-133	1	26	
Surrogate: 2,4,5,6-TCMX	*0.97*			*ug/L*	*1.00*		*97*	*44-134*			
Surrogate: Decachlorobiphenyl	*0.96*			*ug/L*	*1.00*		*96*	*37-149*			

Polychlorinated Biphenyls by GC - Quality Control

Batch 5C25002 - EPA 3510C

Blank (5C25002-BLK1) Prepared: 03/25/2015 08:45 Analyzed: 03/27/2015 13:21

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	0.43	U	0.50	ug/L							
PCB-1221	0.37	U	0.50	ug/L							
PCB-1232	0.45	U	0.50	ug/L							
PCB-1248	0.014	U	0.50	ug/L							
PCB-1254	0.37	U	0.50	ug/L							
PCB-1260	0.45	U	0.50	ug/L							
Surrogate: 2,4,5,6-TCMX	*0.91*			*ug/L*	*1.00*		*91*	*45-151*			
Surrogate: Decachlorobiphenyl	*0.85*			*ug/L*	*1.00*		*85*	*42-159*			

LCS (5C25002-BS1) Prepared: 03/25/2015 08:45 Analyzed: 03/27/2015 14:14

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	10		0.50	ug/L	10.0		103	66-149			
PCB-1260	8.9		0.50	ug/L	10.0		89	64-150			
Surrogate: 2,4,5,6-TCMX	*0.91*			*ug/L*	*1.00*		*91*	*45-151*			
Surrogate: Decachlorobiphenyl	*0.73*			*ug/L*	*1.00*		*73*	*42-159*			

Matrix Spike (5C25002-MS1) Prepared: 03/25/2015 08:45 Analyzed: 03/27/2015 14:27

Source: C502186-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	12		0.50	ug/L	10.0	0.43 U	123	66-149			
PCB-1260	12		0.50	ug/L	10.0	0.45 U	120	64-150			
Surrogate: 2,4,5,6-TCMX	*0.78*			*ug/L*	*1.00*		*78*	*45-151*			
Surrogate: Decachlorobiphenyl	*1.0*			*ug/L*	*1.00*		*100*	*42-159*			

Matrix Spike Dup (5C25002-MSD1) Prepared: 03/25/2015 08:45 Analyzed: 03/27/2015 14:40

Source: C502186-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	12		0.50	ug/L	10.0	0.43 U	120	66-149	2	21	
PCB-1260	13		0.50	ug/L	10.0	0.45 U	132	64-150	9	18	
Surrogate: 2,4,5,6-TCMX	*0.74*			*ug/L*	*1.00*		*74*	*45-151*			

QUALITY CONTROL

Polychlorinated Biphenyls by GC - Quality Control

Batch 5C25002 - EPA 3510C

Matrix Spike Dup (5C25002-MSD1) Continued Prepared: 03/25/2015 08:45 Analyzed: 03/27/2015 14:40

Source: C502186-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Decachlorobiphenyl	*1.2*			*ug/L*	*1.00*		*122*	*42-159*			

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 5D01011 - EPA 7470A

Blank (5D01011-BLK1) Prepared: 04/01/2015 10:21 Analyzed: 04/01/2015 15:53

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 (5D01011-BS1) Prepared: 04/01/2015 10:21 Analyzed: 04/01/2015 15:58

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.57		0.200	ug/L	5.00		91	80-120			

Matrix Spike (5D01011-MS1) Prepared: 04/01/2015 10:21 Analyzed: 04/01/2015 16:02

Source: C502186-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	3.48		0.200	ug/L	5.00	0.170 U	70	75-125			QM-07

Matrix Spike Dup (5D01011-MSD1) Prepared: 04/01/2015 10:21 Analyzed: 04/01/2015 16:04

Source: C502186-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	3.48		0.200	ug/L	5.00	0.170 U	70	75-125	0	25	QM-07

Post Spike (5D01011-PS1) Prepared: 04/01/2015 10:21 Analyzed: 04/01/2015 16:07

Source: C502186-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	2.93		0.200	ug/L	5.00	0.0860	57	75-125			QM-08

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

Batch 5C24008 - EPA 3005A

Blank (5C24008-BLK1) Prepared: 03/24/2015 10:04 Analyzed: 03/26/2015 12:57

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	6.80	U	10.0	ug/L							
Barium	1.00	U	10.0	ug/L							
Beryllium	0.100	U	1.00	ug/L							
Cadmium	0.360	U	1.00	ug/L							
Chromium	1.40	U	10.0	ug/L							
Cobalt	1.10	U	10.0	ug/L							

QUALITY CONTROL

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

Batch 5C24008 - EPA 3005A

Blank (5C24008-BLK1) Continued Prepared: 03/24/2015 10:04 Analyzed: 03/26/2015 12:57

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Copper	1.60	U	10.0	ug/L							
Iron	22.0	U	50.0	ug/L							
Lead	3.10	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							
Tin	2.40	U	10.0	ug/L							
Vanadium	1.40	U	10.0	ug/L							
Zinc	3.80	U	10.0	ug/L							

LCS (5C24008-BS1) Prepared: 03/24/2015 10:04 Analyzed: 03/26/2015 13:03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	209		10.0	ug/L	200		105	80-120			
Barium	225		10.0	ug/L	200		113	80-120			
Beryllium	21.2		1.00	ug/L	20.0		106	80-120			
Cadmium	22.6		1.00	ug/L	20.0		113	80-120			
Chromium	212		10.0	ug/L	200		106	80-120			
Cobalt	222		10.0	ug/L	200		111	80-120			
Copper	207		10.0	ug/L	200		103	80-120			
Iron	1120		50.0	ug/L	1000		112	80-120			
Lead	218		10.0	ug/L	200		109	80-120			
Manganese	211		10.0	ug/L	200		106	80-120			
Nickel	223		10.0	ug/L	200		112	80-120			
Selenium	215		10.0	ug/L	200		108	80-120			
Silver	208		10.0	ug/L	200		104	80-120			
Tin	215		10.0	ug/L	200		107	80-120			
Vanadium	205		10.0	ug/L	200		103	80-120			
Zinc	227		10.0	ug/L	200		113	80-120			

Matrix Spike (5C24008-MS1) Prepared: 03/24/2015 10:04 Analyzed: 03/26/2015 13:09

Source: C502186-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	213		10.0	ug/L	200	6.80 U	107	75-125			
Barium	925		10.0	ug/L	200	710	107	75-125			
Beryllium	22.3		1.00	ug/L	20.0	0.344	110	75-125			
Cadmium	22.1		1.00	ug/L	20.0	0.360 U	111	75-125			
Chromium	218		10.0	ug/L	200	2.76	108	75-125			
Cobalt	222		10.0	ug/L	200	5.00	109	75-125			
Copper	215		10.0	ug/L	200	1.60 U	107	75-125			
Iron	3380		50.0	ug/L	1000	2380	100	75-125			
Lead	216		10.0	ug/L	200	3.10 U	108	75-125			
Manganese	6430		10.0	ug/L	200	6420	4	75-125			QM-05
Nickel	219		10.0	ug/L	200	1.80 U	110	75-125			
Selenium	214		10.0	ug/L	200	5.00 U	107	75-125			
Silver	217		10.0	ug/L	200	1.90 U	108	75-125			

QUALITY CONTROL

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

Batch 5C24008 - EPA 3005A

Matrix Spike (5C24008-MS1) Continued Prepared: 03/24/2015 10:04 Analyzed: 03/26/2015 13:09

Source: C502186-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Tin	209		10.0	ug/L	200	2.40 U	104	75-125			
Vanadium	210		10.0	ug/L	200	1.40 U	105	75-125			
Zinc	244		10.0	ug/L	200	21.7	111	75-125			

Matrix Spike Dup (5C24008-MSD1) Prepared: 03/24/2015 10:04 Analyzed: 03/26/2015 13:11

Source: C502186-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	212		10.0	ug/L	200	6.80 U	106	75-125	0.7	20	
Barium	926		10.0	ug/L	200	710	108	75-125	0.05	20	
Beryllium	21.7		1.00	ug/L	20.0	0.344	107	75-125	3	20	
Cadmium	22.4		1.00	ug/L	20.0	0.360 U	112	75-125	1	20	
Chromium	216		10.0	ug/L	200	2.76	106	75-125	1	20	
Cobalt	226		10.0	ug/L	200	5.00	110	75-125	2	20	
Copper	210		10.0	ug/L	200	1.60 U	105	75-125	2	20	
Iron	3400		50.0	ug/L	1000	2380	103	75-125	0.7	20	
Lead	218		10.0	ug/L	200	3.10 U	109	75-125	1	20	
Manganese	6630		10.0	ug/L	200	6420	107	75-125	3	20	
Nickel	220		10.0	ug/L	200	1.80 U	110	75-125	0.6	20	
Selenium	221		10.0	ug/L	200	5.00 U	111	75-125	3	20	
Silver	212		10.0	ug/L	200	1.90 U	106	75-125	2	20	
Tin	213		10.0	ug/L	200	2.40 U	106	75-125	2	20	
Vanadium	206		10.0	ug/L	200	1.40 U	103	75-125	2	20	
Zinc	248		10.0	ug/L	200	21.7	113	75-125	1	20	

Post Spike (5C24008-PS1) Prepared: 03/24/2015 10:04 Analyzed: 03/26/2015 13:15

Source: C502186-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	0.198		0.0100	mg/L	0.200	0.00406	97	80-120			
Barium	0.922		0.0100	mg/L	0.200	0.710	106	80-120			
Beryllium	0.0203		0.00100	mg/L	0.0200	0.000344	100	80-120			
Cadmium	0.0206		0.00100	mg/L	0.0200	3.18E-5	103	80-120			
Chromium	0.201		0.0100	mg/L	0.200	0.00276	99	80-120			
Cobalt	0.209		0.0100	mg/L	0.200	0.00500	102	80-120			
Copper	0.197		0.0100	mg/L	0.200	-0.000907	98	80-120			
Iron	3.33		0.0500	mg/L	1.00	2.38	95	80-120			
Lead	0.201		0.0100	mg/L	0.200	0.00168	100	80-120			
Manganese	6.74		0.0100	mg/L	0.200	6.42	159	80-120			QM-08
Nickel	0.204		0.0100	mg/L	0.200	0.00101	102	80-120			
Selenium	0.205		0.0100	mg/L	0.200	-0.00626	103	80-120			
Silver	0.196		0.0100	mg/L	0.200	0.00126	97	80-120			
Tin	0.197		0.0100	mg/L	0.200	-0.00291	98	80-120			
Vanadium	0.192		0.0100	mg/L	0.200	-0.000309	96	80-120			
Zinc	0.231		0.0100	mg/L	0.200	0.0217	104	80-120			

QUALITY CONTROL

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

Batch 5C24009 - EPA 3005A

Blank (5C24009-BLK1) Prepared: 03/24/2015 10:14 Analyzed: 03/31/2015 11:29

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 (5C24009-BS1) Prepared: 03/24/2015 10:14 Analyzed: 03/31/2015 11:33

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	224		2.00	ug/L	200		112	80-120			
Thallium	232		1.00	ug/L	200		116	80-120			

Matrix Spike (5C24009-MS1) Prepared: 03/24/2015 10:14 Analyzed: 03/31/2015 11:40

Source: C502186-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	228		2.00	ug/L	200	0.661	114	75-125			
Thallium	196		1.00	ug/L	200	0.605	98	75-125			

Matrix Spike Dup (5C24009-MSD1) Prepared: 03/24/2015 10:14 Analyzed: 03/31/2015 11:44

Source: C502186-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	224		2.00	ug/L	200	0.661	112	75-125	2	20	
Thallium	195		1.00	ug/L	200	0.605	97	75-125	0.6	20	

Post Spike (5C24009-PS1) Prepared: 03/24/2015 10:14 Analyzed: 03/31/2015 11:47

Source: C502186-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	214		2.00	ug/L	200	0.661	106	80-120			
Thallium	182		1.00	ug/L	200	0.605	91	80-120			

Classical Chemistry Parameters - Quality Control

Batch 5C23005 - Same

Blank (5C23005-BLK1) Prepared: 03/23/2015 10:30 Analyzed: 03/23/2015 17:09

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	4.9	U	10	ug/L							

LCS (5C23005-BS1) Prepared: 03/23/2015 10:30 Analyzed: 03/23/2015 17:19

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	150		10	ug/L	150		100	85-115			

Matrix Spike (5C23005-MS1) Prepared: 03/23/2015 10:30 Analyzed: 03/23/2015 17:23

Source: C502186-04

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 5C23005 - Same

Matrix Spike (5C23005-MS1) Continued Prepared: 03/23/2015 10:30 Analyzed: 03/23/2015 17:23

Source: C502186-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	150		10	ug/L	150	4.9 U	101	85-115			

Matrix Spike Dup (5C23005-MSD1) Prepared: 03/23/2015 10:30 Analyzed: 03/23/2015 17:25

Source: C502186-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	150		10	ug/L	150	4.9 U	99	85-115	2	20	

Batch 5C23027 - NO PREP

Blank (5C23027-BLK1) Prepared: 03/23/2015 15:45 Analyzed: 03/23/2015 16:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	10	U	100	ug/L							

LCS (5C23027-BS1) Prepared: 03/23/2015 15:45 Analyzed: 03/23/2015 16:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.37		0.10	mg/L	0.401		91	80-120			

Duplicate (5C23027-DUP1) Prepared: 03/23/2015 15:45 Analyzed: 03/23/2015 16:10

Source: C502186-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	10	U	100	ug/L		10 U				25	

Matrix Spike (5C23027-MS1) Prepared: 03/23/2015 15:45 Analyzed: 03/23/2015 16:10

Source: C502186-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	120		100	ug/L	401	10 U	30	80-120			QM-05

Matrix Spike Dup (5C23027-MSD1) Prepared: 03/23/2015 15:45 Analyzed: 03/23/2015 16:10

Source: C502186-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	120		100	ug/L	401	10 U	30	80-120	1	25	QM-05

QUALITY CONTROL

Chlorinated Herbicides by GC - Quality Control

Batch 5C25005 - EPA 3510C

Blank (5C25005-BLK1) Prepared: 03/25/2015 10:45 Analyzed: 04/01/2015 17:25

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

QUALITY CONTROL

Chlorinated Herbicides by GC - Quality Control

Batch 5C25005 - EPA 3510C

Blank (5C25005-BLK1) Continued Prepared: 03/25/2015 10:45 Analyzed: 04/01/2015 17:25

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.28	U	0.50	ug/L							
2,4,5-TP (Silvex)	0.44	U	0.50	ug/L							
2,4-D	0.27	U	0.50	ug/L							
Dinoseb	0.32	U	0.50	ug/L							
Pentachlorophenol	0.19	U	0.50	ug/L							
Surrogate: 2,4-DCAA	*1.9*			*ug/L*	*2.00*		*95*	*48-151*			

Blank (5C25005-BLK2) Prepared: 03/25/2015 10:45 Analyzed: 04/01/2015 20:25

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	1.4	U	2.5	ug/L							
2,4,5-TP (Silvex)	2.2	U	2.5	ug/L							
2,4-D	1.4	U	2.5	ug/L							
Dinoseb	1.6	U	2.5	ug/L							
Pentachlorophenol	0.95	U	2.5	ug/L							
Surrogate: 2,4-DCAA	*7.7*			*ug/L*	*10.0*		*77*	*48-151*			

Blank (5C25005-BLK3) Prepared: 03/25/2015 10:45 Analyzed: 04/01/2015 20:51

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	1.4	U	2.5	ug/L							
2,4,5-TP (Silvex)	2.2	U	2.5	ug/L							
2,4-D	1.4	U	2.5	ug/L							
Dinoseb	1.6	U	2.5	ug/L							
Pentachlorophenol	0.95	U	2.5	ug/L							
Surrogate: 2,4-DCAA	*8.0*			*ug/L*	*10.0*		*80*	*48-151*			

LCS (5C25005-BS1) Prepared: 03/25/2015 10:45 Analyzed: 04/01/2015 17:51

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	2.1		0.50	ug/L	2.00		103	47-142			
2,4-D	2.2		0.50	ug/L	2.00		108	37-129			
Surrogate: 2,4-DCAA	*2.0*			*ug/L*	*2.00*		*100*	*48-151*			

Matrix Spike (5C25005-MS1) Prepared: 03/25/2015 10:45 Analyzed: 04/01/2015 18:16

Source: C502186-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	1.6		0.50	ug/L	2.00	0.44 U	80	47-142			
2,4-D	2.4		0.50	ug/L	2.00	0.27 U	119	37-129			
Surrogate: 2,4-DCAA	*2.2*			*ug/L*	*2.00*		*109*	*48-151*			

Matrix Spike (5C25005-MS2) Prepared: 03/25/2015 10:45 Analyzed: 04/01/2015 21:16

Source: A501825-02

QUALITY CONTROL

Chlorinated Herbicides by GC - Quality Control

Batch 5C25005 - EPA 3510C

Matrix Spike (5C25005-MS2) Continued Prepared: 03/25/2015 10:45 Analyzed: 04/01/2015 21:16

Source: A501825-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	1.6		0.50	ug/L	2.00	0.44 U	80	47-142			
2,4-D	1.6		0.50	ug/L	2.00	0.27 U	82	37-129			
Surrogate: 2,4-DCAA	*1.7*			*ug/L*	*2.00*		*85*	*48-151*			

Matrix Spike Dup (5C25005-MSD1) Prepared: 03/25/2015 10:45 Analyzed: 04/01/2015 18:42

Source: C502186-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	1.3		0.50	ug/L	2.00	0.44 U	64	47-142	23	15	QM-11
2,4-D	1.8		0.50	ug/L	2.00	0.27 U	90	37-129	27	33	
Surrogate: 2,4-DCAA	*1.6*			*ug/L*	*2.00*		*82*	*48-151*			

Matrix Spike Dup (5C25005-MSD2) Prepared: 03/25/2015 10:45 Analyzed: 04/01/2015 21:42

Source: A501825-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	1.0		0.50	ug/L	2.00	0.44 U	50	47-142	46	15	QM-11
2,4-D	1.1		0.50	ug/L	2.00	0.27 U	54	37-129	43	33	QM-11
Surrogate: 2,4-DCAA	*1.0*			*ug/L*	*2.00*		*52*	*48-151*			

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
QM-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.
QV-01	The associated continuing calibration verification standard exhibited high bias; since the result is ND, the impact on data quality is minimal.
QV-02	The associated continuing calibration verification standard exhibited low bias; the reported result should be considered to be a minimum estimate.

ENVIRONMENTAL CONSERVATION LABORATORIES
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

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CHAIN-OF-CUSTODY RECORD

Client Name: Golder Associates, Inc. (GO007)	Project Number: 08396506014.102
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: Anne Stoddard	Site Location / Time Zone: Hendersonville, NC/EST

Requested Turnaround Times

Note : Rush requests subject acceptance by the facility

✓ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C502186

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8081B Appendix 2	8082A Appendix 2, 8151A Appendix 2, 8270D Appendix 2	8260B Appendix 1	8260B Appendix 2	8260B Appendix 2, 8260B Extended	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Ni,Pb,Sb,Se,Sn,Tl,V,Zn	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Sn,Tl,V,Zn	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Se,Tl,V,Zn	Cyanide Total 9014	Hg	Sample Comments
	4501-MW5 (Background)	3/18/15	1455	G	GW	10	X	X		X			X		X	X	
	4501-MW6	3/19/15	0835	G	GW	10	X	X		X			X		X	X	
	4501-MW7	3/19/15	0800	G	GW	10	X	X		X			X		X	X	
	4501-MW8 (MS/MSD)	3/18/15	1525	G	GW	20	X	X		X			X		X	X	
	4501-MW9	3/18/15	1152	G	SW	4			X					X			
	4501-AMW1S	3/17/15	1037	G	GW	4			X					X		X	
	4501-AMW1D	3/17/15	1711	G	GW	4			X					X		X	
	4501-AMW2S	3/18/15	1700	G	GW	4			X					X		X	
	4501-AMW2D	3/18/15	1750	G	GW	4			X					X		X	
	4501-BR1	3/18/15	1550	G	SW	4			X					X			
	4501-BR2	3/18/15	1615	G	SW	4			X					X			
	4501-BR3	3/17/15	1720	G	SW	4			X					X			

Preservation (See Codes) (Combine as necessary)

<-- Total # of Containers

Sample Kit Prepared By / Date/Time	Relinquished By: Anne Stoddard	Date/Time: 3/20/15 9AM	Received By: [signature] Date/Time: 3-20-15 11:30
Comments/Special Reporting Requirements: 1. Level 2 data Report 2. Unit Rates per "Basic Ordering Agreement for Lab services..."	Relinquished By	Date/Time	Received By / Date/Time
	Relinquished By	Date/Time	Received By / Date/Time
	Cooler #'s & Temps on Receipt: C-615 1.9°c C-958 1.5°c C-810 1.1°c CA-1580 1.2°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)

ENCO
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

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN OF CUSTODY RECORD

www.enclabs.com

Client Name	Project Number
Golder Associates, Inc. (GO007)	08396506014.102
Address	**Project Name/Desc**
5B Oak Branch Drive	Henderson Co. LF
City/ST/Zip	**PO # / Billing Info**
Greensboro, NC 27407	
Tel / **Fax**	**Reporting Contact**
(336) 852-4903 / (336) 852-4904	Dusty Reedy
Sampler(s) Name, Affiliation (Print)	**Billing Contact**
Seepage 1 for All	Accounts Payable
Sampler(s) Signature	**Site Location / Time Zone**

Requested Analyses

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

___ Standard

___ Expedited

Due ___/___/___

Lab Workorder

C502186

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	Preservation (See Codes) (Combine as necessary) Sulfide SM4500-S D	Sample Comments
	4501-MW5 (Background)	↑			GW	10	X	
	4501-MW6				GW	10	X	
	4501-MW7				GW	10	X	
	4501-MW8 (MS/MSD)				GW	20	X	
	4501-MW9	See Page 1			SW	4		
	4501-AMW1S				GW	4		
	4501-AMW1D				GW	4		
	4501-AMW2S				GW	4		
	4501-AMW2D				GW	4		
	4501-BR1				SW	4		
	4501-BR2				SW	4		
	4501-BR3	↓			SW	4		

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
					3.2015 11:30
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt		Condition Upon Receipt ✓ Acceptable ___ Unacceptable	

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

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

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

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.enkolabs.com

Client Name: Golder Associates, Inc. (GO007)	Project Number: 08396506014.102
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: Anna Stoddard	Site Location / Time Zone: Hendersonville, NC / EST

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	8081B Appendix 2	8082A Appendix 2, 8151A Appendix 2, 8270D Appendix 2	8260B Appendix 1	8260B Appendix 2	8260B Appendix 2, 8260B Extended	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Ni,Pb,Sb,Se,Sn,Tl,V,Zn	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Sn,Tl,V,Zn	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Se,Tl,V,Zn	Cyanide Total 9014	Hg	Sample Comments
	4501-SW1	3-19-15	1125	G	SW	4			X					X			
	4501-TSW1	↓	—	G	SW	4			X					X			NO FLOW / DRY, not sampled
	4501-TSW2		0910	G	SW	4			X					X			
	4501-Field Blank	↓	1135	G	WA	10	X	X			X	X			X	X	
	4501-Trip Blank	—	—		WA	2					X						

<-- Total # of Containers

Requested Turnaround Times

Note : Rush requests subject acceptance by the facility

✓ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C502186

Sample Kit Prepared By	Date/Time	Relinquished By: Anna Stoddard	Date/Time: 3/20/15 9AM	Received By	Date/Time: 3-20-15 1130
Comments/Special Reporting Requirements: 1. Level 2 data Report 2. Unit Rates per "Basic Ordering Agreement for lab services..."		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt		Condition Upon Receipt: ✓ Acceptable ___ Unacceptable	

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

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

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

ENCO
ENVIRONMENTAL CONSERVATION LABORATORIES
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

CHAIN-OF-CUSTODY RECORD

Client Name: Golder Associates, Inc. (GO007)	Project Number: 08396506014.102
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): See page 1 for ALL	Billing Contact: Accounts Payable
Sampler(s) Signature:	Site Location / Time Zone:

Requested Analyses: Sulfide SM4500-S D

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

___ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C502186

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	Preservation (See Codes) (Combine as necessary)	Sample Comments
	4501-SW1	↑			SW	4		
	4501-TSW1				SW	4		
	4501-TSW2	Page 1			SW	4		
	4501-Field Blank				WA	10	X	
	4501-Trip Blank				WA	2		

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By: [signature]	Date/Time: 3/20/15 9AM	Received By: [signature]	Date/Time: 3.20.15 11:30
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt		Condition Upon Receipt: ✓ Acceptable ___ Unacceptable	

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

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

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

GOLDER ASSOCIATES INC.
QUALITY ASSURANCE & QUALITY CONTROL
LABORATORY DATA REVIEW

Project Name: Henderson County MSW Landfill

Project Reference Number: 0839-650614.102

Sampling Event Date: March 18-19, 2015

Review Date: May 7, 2015 *Initials:* AS

Report #: C502186

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

AS COC was properly signed by all parties.

AS Correct project name and number are on the form.

AS Sample receipt condition at laboratory was acceptable.

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

2.0 SAMPLE HOLDING TIMES

AS 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

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

AS Laboratory blank is interference-free.

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

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

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

AS 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 Trichloroethene was outside of control limits for the 8260B MS and/or MSD samples. The QC batches were approved based on acceptable LCS recovery of this analyte.***
- ***Precision between duplicate spikes of 2,4,5-TP (Silvex) and 2,4-D exceeded acceptance criteria for the 8151A MS and MSD samples; however, the individual recoveries were within control limits. The QC batches were approved based on acceptable LCS recovery of these analytes and completeness of the QC data.***
- ***The spike recoveries of Manganese and Mercury were outside of control limits fot eh 6010C and 7470A (respectively) MS, MSD, and/or Post Spike samples. The QC batches were approved based on acceptable LCS recovery of these elements.***
- ***The spike recovery of Sulfide was outside of control limits for the MS and MSD samples. The QC batch was approved based on acceptable LCS recovery of this analyte.***

4.0 ANALYTE LISTS/METHODS

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

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

5.0 DATA REPORTING

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

AS 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**
  - ***Copper @ 1.74 ug/L (J)***
  - ***Manganese @ 1.34 ug/L (J)***

AS 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.

AS The report provides the reporting limit for each constituent.

AS 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 @ 710 ug/L***
- **Cadmium** ***(NC2L = 2 ug/L)***
  - ***MW-7 @ 2.18 ug/L***
- **Cobalt** ***(GWPS = 1 ug/L)***
  - ***MW-7 @ 2.67 ug/L (J)***
- **Mercury** ***(NC2L = 1 ug/L)***
  - ***AMW-2S @ 1.49 ug/L***
- **Thallium** ***(NC2L = 0.28 ug/L)***
  - ***MW-7 @ 0.281 ug/L (J)***
  - ***MW-8 @ 0.605 ug/L (J)***
  - ***AMW-1S @ 0.514 ug/L (J)***
- **Vanadium** ***(GWPS = 0.3 ug/L)***
  - ***MW-9 @ 1.53 ug/L (J)***
  - ***AMW-2S @ 7.02 ug/L (J)***
- **Benzene** ***(SWSL & NC2L = 1 ug/L)***
  - ***MW-7 @ 1.3 ug/L***
  - ***AMW-1D @ 1.2 ug/L***
- **Chlorobenzene** ***(SWSL = 3 ug/L)***
  - ***AMW-1D @ 6.4 ug/L***
- **1,4-Dichlorobenzene** ***(SWSL = 1 ug/L)*** ***(NC2L = 6 ug/L)***
  - ***MW-7 @ 14 ug/L***
  - ***AMW-1D @ 4.0 ug/L***
  - ***AMW-2S @ 1.4 ug/L***
- **cis-1,2-Dichloroethene** ***(SWSL = 5 ug/L)***
  - ***MW-7 @ 5.3 ug/L***
- **Vinyl Chloride** ***(SWSL = 1 ug/L)*** ***(NC2L = 0.03 ug/L)***
  - ***MW-7 @ 0.88 ug/L***
  - ***AMW-1D @ 0.46 ug/L (J)***
- **Silver** **(SW Standard = 0.06ug/L)**
  - ***BR-2 @ 2.16 ug/L (J)***

AS 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).

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

- ***The 8270D Continuing Calibration Verification sample (CCV) exhibited a high bias for 3-Nitroanaline and Hexachloropropene; however, these analytes were not detected in the associated samples, reduing the impact of the deviations. The CCV exhibited a low bias for 1-Naphthylamine, 2-Naphthylamine, and 4-Aminobiophenyl. The reports results should be considered minimum estimates.***

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

www.encolabs.com

Friday, April 3, 2015

Golder Associates, Inc. (GO007)

Attn: Dusty Reedy

5B Oak Branch Drive

Greensboro, NC 27407

RE: Laboratory Results for
Project Number: 0839-6506014.102, Project Name/Desc: Henderson Co. LF C&D
ENCO Workorder(s): C502191

Dear Dusty Reedy,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Friday, March 20, 2015.

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 42.

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PROJECT NARRATIVE

Date: 03 April 2015
Client: Golder Associates, Inc. (GO007)
Project: Henderson Co. LF C&D
Lab ID: C502191

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

Precision between duplicate spikes of 2,4-D exceeded acceptance criteria for the 8151 A MS and MSD samples; however the individual recoveries were within control limits. The QC batch was approved based on acceptable LCS recovery of this analyte and completeness of the QC data.

The spike recoveries of Iron and Mercury were outside of control limits for the 6010C and 7470 A (respectively) MSD and or Post Spike samples. The QC batches were approved based on acceptable recovery of these elements.

The spike recoveries of Chloride and Sulfate were outside of control limits for the 300.0 MS and/or MSD samples. Precision between duplicate analyses of TDS exceeded acceptance criteria. The QC batches were approved based on acceptable LCS recovery of these analytes.

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.

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

Released By:
Environmental Conservation Laboratories, Inc.

Stephanie Franz
Project Manager

Page 2 of 42

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 4501-MW10	Lab ID: C502191-01	Sampled: 03/18/15 11:00	Received: 03/20/15 11:30

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	04/15/15		03/31/15	10:58	3/31/2015 17:59
EPA 310.2	04/01/15		03/26/15	10:09	3/26/2015 13:49
EPA 6010C	09/14/15		03/25/15	10:20	3/29/2015 13:46
EPA 6020A	09/14/15		03/25/15	10:33	3/31/2015 10:55
EPA 7470A	04/15/15		04/01/15	10:23	4/3/2015 15:47
EPA 8151A	03/25/15	05/04/15	03/25/15	10:45	4/2/2015 00:16
EPA 8260B	04/01/15		03/30/15	16:18	3/31/2015 16:11
SM 2540C-1997	03/25/15		03/24/15	10:17	3/24/2015 10:17

Client ID: 4501-MW11 (MS/MSD)	Lab ID: C502191-02	Sampled: 03/18/15 10:05	Received: 03/20/15 11:30

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	04/15/15		03/31/15	10:58	3/31/2015 17:22
EPA 310.2	04/01/15		03/26/15	10:09	3/26/2015 13:45
EPA 6010C	09/14/15		03/25/15	10:20	3/29/2015 13:31
EPA 6020A	09/14/15		03/25/15	10:33	3/31/2015 10:37
EPA 7470A	04/15/15		04/01/15	10:23	4/3/2015 15:35
EPA 8151A	03/25/15	05/04/15	03/25/15	10:45	4/2/2015 00:42
EPA 8260B	04/01/15		03/30/15	16:18	3/31/2015 00:07
SM 2540C-1997	03/25/15		03/24/15	10:17	3/24/2015 10:17

Client ID: 4501-MW11 (MS/MSD)	Lab ID: C502191-02RE1	Sampled: 03/18/15 10:05	Received: 03/20/15 11:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	04/15/15	03/31/15	10:58	4/1/2015 10:56

Client ID: 4501-MW12	Lab ID: C502191-03	Sampled: 03/18/15 11:15	Received: 03/20/15 11:30

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	04/15/15		03/31/15	10:58	3/31/2015 18:17
EPA 310.2	04/01/15		03/26/15	10:09	3/26/2015 13:50
EPA 6010C	09/14/15		03/25/15	10:20	3/29/2015 13:49
EPA 6020A	09/14/15		03/25/15	10:33	3/31/2015 10:59
EPA 7470A	04/15/15		04/01/15	10:23	4/3/2015 15:49
EPA 8151A	03/25/15	05/04/15	03/25/15	10:45	4/2/2015 01:07
EPA 8260B	04/01/15		03/30/15	16:18	3/31/2015 16:41
SM 2540C-1997	03/25/15		03/24/15	10:17	3/24/2015 10:17

Page 3 of 42

Client ID: 4501-MW13	Lab ID: C502191-04	Sampled: 03/18/15 09:40	Received: 03/20/15 11:30

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	04/15/15		03/31/15	10:58	3/31/2015 18:36
EPA 310.2	04/01/15		03/26/15	10:09	3/26/2015 13:51
EPA 6010C	09/14/15		03/25/15	10:20	3/29/2015 13:51
EPA 6020A	09/14/15		03/25/15	10:33	3/31/2015 11:02
EPA 7470A	04/15/15		04/01/15	10:23	4/3/2015 15:52
EPA 8151A	03/25/15	05/04/15	03/25/15	10:45	4/2/2015 01:33
EPA 8260B	04/01/15		03/30/15	16:18	3/31/2015 17:11
SM 2540C-1997	03/25/15		03/24/15	10:17	3/24/2015 10:17

Page 4 of 42

NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: 4501-MW10 **Lab ID: C502191-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	0.653	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	8.07	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.143	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Chloride	2300	J	1	2200	5000	NE	ug/L	EPA 300.0	
Iron - Total	659		1	22.0	50.0	300	ug/L	EPA 6010C	
Manganese - Total	24.4	J	1	1.10	10.0	50	ug/L	EPA 6010C	
Thallium - Total	0.251	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Total Alkalinity as CaCO3	14000	J	1	14000	15000	NE	ug/L	EPA 310.2	
Total Dissolved Solids	38000		1	10000	10000	NE	ug/L	SM 2540C-1997	
Vanadium - Total	1.62	J	1	1.40	10.0	25	ug/L	EPA 6010C	

Client ID: 4501-MW11 (MS/MSD) **Lab ID: C502191-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Acetone	160		1	1.2	5.0	100	ug/L	EPA 8260B	
Antimony - Total	0.742	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	155		1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	1.37		1	0.100	1.00	1	ug/L	EPA 6010C	
Chloride	60000		1	2200	5000	NE	ug/L	EPA 300.0	
cis-1,2-Dichloroethene	0.53	J	1	0.15	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	1.29	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	4.30	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Iron - Total	5720		1	22.0	50.0	300	ug/L	EPA 6010C	
Manganese - Total	593		1	1.10	10.0	50	ug/L	EPA 6010C	
Nickel - Total	14.3	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Tetrahydrofuran	9.8		1	0.80	1.0	NE	ug/L	EPA 8260B	
Thallium - Total	0.202	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Total Alkalinity as CaCO3	120000		1	14000	15000	NE	ug/L	EPA 310.2	
Total Dissolved Solids	330000		1	10000	10000	NE	ug/L	SM 2540C-1997	
Vanadium - Total	2.39	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Vinyl chloride	0.85	J	1	0.32	1.0	1	ug/L	EPA 8260B	
Zinc - Total	265		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4501-MW11 (MS/MSD) **Lab ID: C502191-02RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Sulfate as SO4	78000	J	1	5800	10000	250000	ug/L	EPA 300.0	

Client ID: 4501-MW12 **Lab ID: C502191-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethene	1.7	J	1	0.21	1.0	5	ug/L	EPA 8260B	
Barium - Total	22.4	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.135	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Chloride	19000		1	2200	5000	NE	ug/L	EPA 300.0	
cis-1,2-Dichloroethene	1.6	J	1	0.15	1.0	5	ug/L	EPA 8260B	
Copper - Total	1.95	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Iron - Total	880		1	22.0	50.0	300	ug/L	EPA 6010C	
Manganese - Total	124		1	1.10	10.0	50	ug/L	EPA 6010C	
Mercury - Total	0.227		1	0.170	0.200	0.2	ug/L	EPA 7470A	
Sulfate as SO4	25000	J	1	2900	5000	250000	ug/L	EPA 300.0	
Tetrachloroethene	0.46	J	1	0.17	1.0	1	ug/L	EPA 8260B	

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Client ID: 4501-MW12							Lab ID: C502191-03		
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Tetrahydrofuran	6.3		1	0.80	1.0	NE	ug/L	EPA 8260B	
Total Alkalinity as CaCO3	130000		1	14000	15000	NE	ug/L	EPA 310.2	
Total Dissolved Solids	210000		1	10000	10000	NE	ug/L	SM 2540C-1997	
Vanadium - Total	1.87	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Vinyl chloride	0.86	J	1	0.32	1.0	1	ug/L	EPA 8260B	
Zinc - Total	9.40	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4501-MW13							Lab ID: C502191-04		
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
1,1-Dichloroethene	2.4	J	1	0.21	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	0.55	J	1	0.19	1.0	1	ug/L	EPA 8260B	
2,4-D	0.82	J	1	0.27	0.50	2	ug/L	EPA 8151A	
Barium - Total	14.5	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chloride	5600		1	2200	5000	NE	ug/L	EPA 300.0	
cis-1,2-Dichloroethene	2.5	J	1	0.15	1.0	5	ug/L	EPA 8260B	
Iron - Total	214	J	1	22.0	50.0	300	ug/L	EPA 6010C	
Manganese - Total	74.0		1	1.10	10.0	50	ug/L	EPA 6010C	
Sulfate as SO4	17000	J	1	2900	5000	250000	ug/L	EPA 300.0	
Tetrahydrofuran	6.8		1	0.80	1.0	NE	ug/L	EPA 8260B	
Total Alkalinity as CaCO3	120000		1	14000	15000	NE	ug/L	EPA 310.2	
Total Dissolved Solids	150000		1	10000	10000	NE	ug/L	SM 2540C-1997	
Trichloroethene	0.41	J	1	0.15	1.0	1	ug/L	EPA 8260B	
Trichlorofluoromethane	1.5		1	0.24	1.0	1	ug/L	EPA 8260B	
Vinyl chloride	2.5		1	0.32	1.0	1	ug/L	EPA 8260B	
Zinc - Total	5.27	J	1	3.80	10.0	10	ug/L	EPA 6010C	

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ANALYTICAL RESULTS

Description: 4501-MW10 | **Lab Sample ID:** C502191-01 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/18/15 11:00 | **Work Order:** C502191

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	03/31/15 16:11	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	03/31/15 16:11	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	03/31/15 16:11	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/31/15 16:11	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	03/31/15 16:11	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/31/15 16:11	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/31/15 16:11	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/31/15 16:11	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/31/15 16:11	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	03/31/15 16:11	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	03/31/15 16:11	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	03/31/15 16:11	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	03/31/15 16:11	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/31/15 16:11	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/31/15 16:11	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/31/15 16:11	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/31/15 16:11	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/31/15 16:11	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/31/15 16:11	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	03/31/15 16:11	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/31/15 16:11	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	03/31/15 16:11	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	03/31/15 16:11	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/31/15 16:11	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/31/15 16:11	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	03/31/15 16:11	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	03/31/15 16:11	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	03/31/15 16:11	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/31/15 16:11	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	03/31/15 16:11	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	03/31/15 16:11	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	03/31/15 16:11	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	03/31/15 16:11	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/31/15 16:11	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/31/15 16:11	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/31/15 16:11	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	03/31/15 16:11	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/31/15 16:11	MSZ	
Tetrahydrofuran [109-99-9] ^	0.80	U	ug/L	1	0.80	1.0		EPA 8260B	03/31/15 16:11	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/31/15 16:11	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/31/15 16:11	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/31/15 16:11	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/31/15 16:11	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/31/15 16:11	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	03/31/15 16:11	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/31/15 16:11	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	03/31/15 16:11	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	03/31/15 16:11	MSZ	

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Description: 4501-MW10 | **Lab Sample ID:** C502191-01 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/18/15 11:00 | **Work Order:** C502191

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
Surrogates	***Results***	***DF***	***Spike Lvl***	***% Rec***	***% Rec Limits***		***Batch***	***Method***	***Analyzed***	***By***	**Notes**
4-Bromofluorobenzene	*53*	*1*	*50.0*	*105 %*	*53-136*		*5C31029*	*EPA 8260B*	*03/31/15 16:11*	*MSZ*	
Dibromofluoromethane	*53*	*1*	*50.0*	*105 %*	*67-129*		*5C31029*	*EPA 8260B*	*03/31/15 16:11*	*MSZ*	
Toluene-d8	*54*	*1*	*50.0*	*109 %*	*59-134*		*5C31029*	*EPA 8260B*	*03/31/15 16:11*	*MSZ*	

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Description: 4501-MW10 | **Lab Sample ID:** C502191-01 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/18/15 11:00 | **Work Order:** C502191

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	04/03/15 15:47	T1D	

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Description: 4501-MW10 | **Lab Sample ID:** C502191-01 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/18/15 11:00 | **Work Order:** C502191

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] ^	**0.653**	J	ug/L	1	0.220	2.00	6	EPA 6020A	03/31/15 10:55	VLO	
Arsenic [7440-38-2] ^	6.80	U	ug/L	1	6.80	10.0	10	EPA 6010C	03/29/15 13:46	JDH	
Barium [7440-39-3] ^	**8.07**	J	ug/L	1	1.00	10.0	100	EPA 6010C	03/29/15 13:46	JDH	
Beryllium [7440-41-7] ^	**0.143**	J	ug/L	1	0.100	1.00	1	EPA 6010C	03/29/15 13:46	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/29/15 13:46	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	03/29/15 13:46	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	03/29/15 13:46	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	03/29/15 13:46	JDH	
Iron [7439-89-6] ^	**659**		ug/L	1	22.0	50.0	300	EPA 6010C	03/29/15 13:46	JDH	
Lead [7439-92-1] ^	3.10	U	ug/L	1	3.10	10.0	10	EPA 6010C	03/29/15 13:46	JDH	
Manganese [7439-96-5] ^	**24.4**	J	ug/L	1	1.10	10.0	50	EPA 6010C	03/29/15 13:46	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	03/29/15 13:46	JDH	
Selenium [7782-49-2] ^	5.00	U	ug/L	1	5.00	10.0	10	EPA 6010C	03/29/15 13:46	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/29/15 13:46	JDH	
Thallium [7440-28-0] ^	**0.251**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/31/15 10:55	VLO	
Vanadium [7440-62-2] ^	**1.62**	J	ug/L	1	1.40	10.0	25	EPA 6010C	03/29/15 13:46	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	03/29/15 13:46	JDH	

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Description: 4501-MW10 | **Lab Sample ID:** C502191-01 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/18/15 11:00 | **Work Order:** C502191

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] ^	**2300**	J	ug/L	1	2200	5000	NE	EPA 300.0	03/31/15 17:59	SHA	
Sulfate as SO4 [14808-79-8] ^	2900	U	ug/L	1	2900	5000	250000	EPA 300.0	03/31/15 17:59	SHA	
Total Alkalinity as CaCO3 [471-34-1] ^	**14000**	J	ug/L	1	14000	15000	NE	EPA 310.2	03/26/15 13:49	SHA	
Total Dissolved Solids^	**38000**		ug/L	1	10000	10000	NE	SM 2540C-1997	03/24/15 10:17	MMR	

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Description: 4501-MW10 | **Lab Sample ID:** C502191-01 | **Received:** 03/20/15 11:30
Matrix: Ground Water | **Sampled:** 03/18/15 11:00 | **Work Order:** C502191
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	04/02/15 00:16	rc	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*1.5*	*1*	*2.00*	*75 %*	*48-151*	*5C25005*	*EPA 8151A*	*04/02/15 00:16*	*rc*	

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Description: 4501-MW11 (MS/MSD) | **Lab Sample ID:** C502191-02 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/18/15 10:05 | **Work Order:** C502191

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	03/31/15 00:07	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	03/31/15 00:07	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	03/31/15 00:07	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/31/15 00:07	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	03/31/15 00:07	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/31/15 00:07	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/31/15 00:07	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/31/15 00:07	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/31/15 00:07	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	03/31/15 00:07	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	03/31/15 00:07	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	03/31/15 00:07	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	03/31/15 00:07	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/31/15 00:07	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/31/15 00:07	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/31/15 00:07	MSZ	
Acetone [67-64-1] ^	**160**		ug/L	1	1.2	5.0	100	EPA 8260B	03/31/15 00:07	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/31/15 00:07	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/31/15 00:07	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	03/31/15 00:07	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/31/15 00:07	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	03/31/15 00:07	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	03/31/15 00:07	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/31/15 00:07	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/31/15 00:07	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	03/31/15 00:07	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	03/31/15 00:07	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	03/31/15 00:07	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/31/15 00:07	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	**0.53**	J	ug/L	1	0.15	1.0	5	EPA 8260B	03/31/15 00:07	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	03/31/15 00:07	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	03/31/15 00:07	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	03/31/15 00:07	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/31/15 00:07	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/31/15 00:07	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/31/15 00:07	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	03/31/15 00:07	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/31/15 00:07	MSZ	
Tetrahydrofuran [109-99-9] ^	**9.8**		ug/L	1	0.80	1.0		EPA 8260B	03/31/15 00:07	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/31/15 00:07	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/31/15 00:07	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/31/15 00:07	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/31/15 00:07	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/31/15 00:07	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	03/31/15 00:07	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/31/15 00:07	MSZ	
Vinyl chloride [75-01-4] ^	**0.85**	J	ug/L	1	0.32	1.0	1	EPA 8260B	03/31/15 00:07	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	03/31/15 00:07	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*57*	*1*	*50.0*	*113 %*	*53-136*	*5C30031*	*EPA 8260B*	*03/31/15 00:07*	*MSZ*	

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Description: 4501-MW11 (MS/MSD) | **Lab Sample ID:** C502191-02 | **Received:** 03/20/15 11:30
Matrix: Ground Water | **Sampled:** 03/18/15 10:05 | **Work Order:** C502191
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
Surrogates	***Results***	***DF***	***Spike Lvl***	***% Rec***	***% Rec Limits***		***Batch***	***Method***	***Analyzed***	***By***	**Notes**
Dibromofluoromethane	*51*	*1*	*50.0*	*102 %*	*67-129*		*5C30031*	*EPA 8260B*	*03/31/15 00:07*	*MSZ*	
Toluene-d8	*55*	*1*	*50.0*	*109 %*	*59-134*		*5C30031*	*EPA 8260B*	*03/31/15 00:07*	*MSZ*	

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Description: 4501-MW11 (MS/MSD) | **Lab Sample ID:** C502191-02 | **Received:** 03/20/15 11:30
Matrix: Ground Water | **Sampled:** 03/18/15 10:05 | **Work Order:** C502191
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	04/03/15 15:35	T1D	

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Description: 4501-MW11 (MS/MSD) | **Lab Sample ID:** C502191-02 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/18/15 10:05 | **Work Order:** C502191

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] ^	**0.742**	J	ug/L	1	0.220	2.00	6	EPA 6020A	03/31/15 10:37	VLO	
Arsenic [7440-38-2] ^	6.80	U	ug/L	1	6.80	10.0	10	EPA 6010C	03/29/15 13:31	JDH	
Barium [7440-39-3] ^	**155**		ug/L	1	1.00	10.0	100	EPA 6010C	03/29/15 13:31	JDH	
Beryllium [7440-41-7] ^	**1.37**		ug/L	1	0.100	1.00	1	EPA 6010C	03/29/15 13:31	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/29/15 13:31	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	03/29/15 13:31	JDH	
Cobalt [7440-48-4] ^	**1.29**	J	ug/L	1	1.10	10.0	10	EPA 6010C	03/29/15 13:31	JDH	
Copper [7440-50-8] ^	**4.30**	J	ug/L	1	1.60	10.0	10	EPA 6010C	03/29/15 13:31	JDH	
Iron [7439-89-6] ^	**5720**		ug/L	1	22.0	50.0	300	EPA 6010C	03/29/15 13:31	JDH	
Lead [7439-92-1] ^	3.10	U	ug/L	1	3.10	10.0	10	EPA 6010C	03/29/15 13:31	JDH	
Manganese [7439-96-5] ^	**593**		ug/L	1	1.10	10.0	50	EPA 6010C	03/29/15 13:31	JDH	
Nickel [7440-02-0] ^	**14.3**	J	ug/L	1	1.80	10.0	50	EPA 6010C	03/29/15 13:31	JDH	
Selenium [7782-49-2] ^	5.00	U	ug/L	1	5.00	10.0	10	EPA 6010C	03/29/15 13:31	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/29/15 13:31	JDH	
Thallium [7440-28-0] ^	**0.202**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/31/15 10:37	VLO	
Vanadium [7440-62-2] ^	**2.39**	J	ug/L	1	1.40	10.0	25	EPA 6010C	03/29/15 13:31	JDH	
Zinc [7440-66-6] ^	**265**		ug/L	1	3.80	10.0	10	EPA 6010C	03/29/15 13:31	JDH	

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Description: 4501-MW11 (MS/MSD) | **Lab Sample ID:** C502191-02 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/18/15 10:05 | **Work Order:** C502191

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] ^	**60000**		ug/L	1	2200	5000	NE	EPA 300.0	03/31/15 17:22	SHA	
Sulfate as SO4 [14808-79-8] ^	**78000**	J	ug/L	1	5800	10000	250000	EPA 300.0	04/01/15 10:56	SHA	
Total Alkalinity as CaCO3 [471-34-1] ^	**120000**		ug/L	1	14000	15000	NE	EPA 310.2	03/26/15 13:45	SHA	
Total Dissolved Solids^	**330000**		ug/L	1	10000	10000	NE	SM 2540C-1997	03/24/15 10:17	MMR	

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Description: 4501-MW11 (MS/MSD) | **Lab Sample ID:** C502191-02 | **Received:** 03/20/15 11:30
Matrix: Ground Water | **Sampled:** 03/18/15 10:05 | **Work Order:** C502191
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	04/02/15 00:42	rc	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*1.5*	*1*	*2.00*	*76 %*	*48-151*	*5C25005*	*EPA 8151A*	*04/02/15 00:42*	*rc*	

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Description: 4501-MW12 | **Lab Sample ID:** C502191-03 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/18/15 11:15 | **Work Order:** C502191

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	03/31/15 16:41	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	03/31/15 16:41	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	03/31/15 16:41	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/31/15 16:41	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	03/31/15 16:41	MSZ	
1,1-Dichloroethene [75-35-4] ^	**1.7**	J	ug/L	1	0.21	1.0	5	EPA 8260B	03/31/15 16:41	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/31/15 16:41	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/31/15 16:41	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/31/15 16:41	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	03/31/15 16:41	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	03/31/15 16:41	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	03/31/15 16:41	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	03/31/15 16:41	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/31/15 16:41	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/31/15 16:41	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/31/15 16:41	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/31/15 16:41	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/31/15 16:41	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/31/15 16:41	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	03/31/15 16:41	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/31/15 16:41	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	03/31/15 16:41	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	03/31/15 16:41	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/31/15 16:41	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/31/15 16:41	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	03/31/15 16:41	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	03/31/15 16:41	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	03/31/15 16:41	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/31/15 16:41	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	**1.6**	J	ug/L	1	0.15	1.0	5	EPA 8260B	03/31/15 16:41	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	03/31/15 16:41	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	03/31/15 16:41	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	03/31/15 16:41	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/31/15 16:41	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/31/15 16:41	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/31/15 16:41	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	03/31/15 16:41	MSZ	
Tetrachloroethene [127-18-4] ^	**0.46**	J	ug/L	1	0.17	1.0	1	EPA 8260B	03/31/15 16:41	MSZ	
Tetrahydrofuran [109-99-9] ^	**6.3**		ug/L	1	0.80	1.0		EPA 8260B	03/31/15 16:41	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/31/15 16:41	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/31/15 16:41	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/31/15 16:41	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/31/15 16:41	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/31/15 16:41	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	03/31/15 16:41	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/31/15 16:41	MSZ	
Vinyl chloride [75-01-4] ^	**0.86**	J	ug/L	1	0.32	1.0	1	EPA 8260B	03/31/15 16:41	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	03/31/15 16:41	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*53*	*1*	*50.0*	*106 %*	*53-136*	*5C31029*	*EPA 8260B*	*03/31/15 16:41*	*MSZ*	

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Description: 4501-MW12 | **Lab Sample ID:** C502191-03 | **Received:** 03/20/15 11:30
Matrix: Ground Water | **Sampled:** 03/18/15 11:15 | **Work Order:** C502191
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
Surrogates	***Results***	***DF***	***Spike Lvl***	***% Rec***	***% Rec Limits***		***Batch***	***Method***	***Analyzed***	***By***	**Notes**
Dibromofluoromethane	*54*	*1*	*50.0*	*108 %*	*67-129*		*5C31029*	*EPA 8260B*	*03/31/15 16:41*	*MSZ*	
Toluene-d8	*54*	*1*	*50.0*	*108 %*	*59-134*		*5C31029*	*EPA 8260B*	*03/31/15 16:41*	*MSZ*	

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Description: 4501-MW12 | **Lab Sample ID:** C502191-03 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/18/15 11:15 | **Work Order:** C502191

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] ^	**0.227**		ug/L	1	0.170	0.200	0.2	EPA 7470A	04/03/15 15:49	T1D	

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Description: 4501-MW12 | **Lab Sample ID:** C502191-03 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/18/15 11:15 | **Work Order:** C502191

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	03/31/15 10:59	VLO	
Arsenic [7440-38-2] ^	6.80	U	ug/L	1	6.80	10.0	10	EPA 6010C	03/29/15 13:49	JDH	
Barium [7440-39-3] ^	**22.4**	J	ug/L	1	1.00	10.0	100	EPA 6010C	03/29/15 13:49	JDH	
Beryllium [7440-41-7] ^	**0.135**	J	ug/L	1	0.100	1.00	1	EPA 6010C	03/29/15 13:49	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/29/15 13:49	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	03/29/15 13:49	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	03/29/15 13:49	JDH	
Copper [7440-50-8] ^	**1.95**	J	ug/L	1	1.60	10.0	10	EPA 6010C	03/29/15 13:49	JDH	
Iron [7439-89-6] ^	**880**		ug/L	1	22.0	50.0	300	EPA 6010C	03/29/15 13:49	JDH	
Lead [7439-92-1] ^	3.10	U	ug/L	1	3.10	10.0	10	EPA 6010C	03/29/15 13:49	JDH	
Manganese [7439-96-5] ^	**124**		ug/L	1	1.10	10.0	50	EPA 6010C	03/29/15 13:49	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	03/29/15 13:49	JDH	
Selenium [7782-49-2] ^	5.00	U	ug/L	1	5.00	10.0	10	EPA 6010C	03/29/15 13:49	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/29/15 13:49	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/31/15 10:59	VLO	
Vanadium [7440-62-2] ^	**1.87**	J	ug/L	1	1.40	10.0	25	EPA 6010C	03/29/15 13:49	JDH	
Zinc [7440-66-6] ^	**9.40**	J	ug/L	1	3.80	10.0	10	EPA 6010C	03/29/15 13:49	JDH	

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Description: 4501-MW12 | **Lab Sample ID:** C502191-03 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/18/15 11:15 | **Work Order:** C502191

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] ^	**19000**		ug/L	1	2200	5000	NE	EPA 300.0	03/31/15 18:17	SHA	
Sulfate as SO4 [14808-79-8] ^	**25000**	J	ug/L	1	2900	5000	250000	EPA 300.0	03/31/15 18:17	SHA	
Total Alkalinity as CaCO3 [471-34-1] ^	**130000**		ug/L	1	14000	15000	NE	EPA 310.2	03/26/15 13:50	SHA	
Total Dissolved Solids^	**210000**		ug/L	1	10000	10000	NE	SM 2540C-1997	03/24/15 10:17	MMR	

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Description: 4501-MW12 | **Lab Sample ID:** C502191-03 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/18/15 11:15 | **Work Order:** C502191

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	04/02/15 01:07	rc	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*1.7*	*1*	*2.00*	*84 %*	*48-151*	*5C25005*	*EPA 8151A*	*04/02/15 01:07*	*rc*	

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Description: 4501-MW13 | **Lab Sample ID:** C502191-04 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/18/15 09:40 | **Work Order:** C502191

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	03/31/15 17:11	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	03/31/15 17:11	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	03/31/15 17:11	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/31/15 17:11	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	03/31/15 17:11	MSZ	
1,1-Dichloroethene [75-35-4] ^	**2.4**	J	ug/L	1	0.21	1.0	5	EPA 8260B	03/31/15 17:11	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/31/15 17:11	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/31/15 17:11	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/31/15 17:11	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	03/31/15 17:11	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	03/31/15 17:11	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	03/31/15 17:11	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	**0.55**	J	ug/L	1	0.19	1.0	1	EPA 8260B	03/31/15 17:11	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/31/15 17:11	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/31/15 17:11	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/31/15 17:11	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/31/15 17:11	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/31/15 17:11	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/31/15 17:11	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	03/31/15 17:11	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/31/15 17:11	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	03/31/15 17:11	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	03/31/15 17:11	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/31/15 17:11	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/31/15 17:11	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	03/31/15 17:11	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	03/31/15 17:11	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	03/31/15 17:11	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/31/15 17:11	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	**2.5**	J	ug/L	1	0.15	1.0	5	EPA 8260B	03/31/15 17:11	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	03/31/15 17:11	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	03/31/15 17:11	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	03/31/15 17:11	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	03/31/15 17:11	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/31/15 17:11	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	03/31/15 17:11	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	03/31/15 17:11	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	03/31/15 17:11	MSZ	
Tetrahydrofuran [109-99-9] ^	**6.8**		ug/L	1	0.80	1.0		EPA 8260B	03/31/15 17:11	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/31/15 17:11	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	03/31/15 17:11	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	03/31/15 17:11	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/31/15 17:11	MSZ	
Trichloroethene [79-01-6] ^	**0.41**	J	ug/L	1	0.15	1.0	1	EPA 8260B	03/31/15 17:11	MSZ	
Trichlorofluoromethane [75-69-4] ^	**1.5**		ug/L	1	0.24	1.0	1	EPA 8260B	03/31/15 17:11	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/31/15 17:11	MSZ	
Vinyl chloride [75-01-4] ^	**2.5**		ug/L	1	0.32	1.0	1	EPA 8260B	03/31/15 17:11	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	03/31/15 17:11	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*55*	*1*	*50.0*	*109 %*	*53-136*	*5C31029*	*EPA 8260B*	*03/31/15 17:11*	*MSZ*	

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Description: 4501-MW13 | **Lab Sample ID:** C502191-04 | **Received:** 03/20/15 11:30
Matrix: Ground Water | **Sampled:** 03/18/15 09:40 | **Work Order:** C502191
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
Surrogates	***Results***	***DF***	***Spike Lvl***	***% Rec***	***% Rec Limits***		***Batch***	***Method***	***Analyzed***	***By***	**Notes**
Dibromofluoromethane	*52*	*1*	*50.0*	*104 %*	*67-129*		*5C31029*	*EPA 8260B*	*03/31/15 17:11*	*MSZ*	
Toluene-d8	*57*	*1*	*50.0*	*114 %*	*59-134*		*5C31029*	*EPA 8260B*	*03/31/15 17:11*	*MSZ*	

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Description: 4501-MW13 | **Lab Sample ID:** C502191-04 | **Received:** 03/20/15 11:30
Matrix: Ground Water | **Sampled:** 03/18/15 09:40 | **Work Order:** C502191
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	04/03/15 15:52	T1D	

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Description: 4501-MW13 | **Lab Sample ID:** C502191-04 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/18/15 09:40 | **Work Order:** C502191

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	03/31/15 11:02	VLO	
Arsenic [7440-38-2] ^	6.80	U	ug/L	1	6.80	10.0	10	EPA 6010C	03/29/15 13:51	JDH	
Barium [7440-39-3] ^	**14.5**	J	ug/L	1	1.00	10.0	100	EPA 6010C	03/29/15 13:51	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	03/29/15 13:51	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/29/15 13:51	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	03/29/15 13:51	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	03/29/15 13:51	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	03/29/15 13:51	JDH	
Iron [7439-89-6] ^	**214**	J	ug/L	1	22.0	50.0	300	EPA 6010C	03/29/15 13:51	JDH	
Lead [7439-92-1] ^	3.10	U	ug/L	1	3.10	10.0	10	EPA 6010C	03/29/15 13:51	JDH	
Manganese [7439-96-5] ^	**74.0**		ug/L	1	1.10	10.0	50	EPA 6010C	03/29/15 13:51	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	03/29/15 13:51	JDH	
Selenium [7782-49-2] ^	5.00	U	ug/L	1	5.00	10.0	10	EPA 6010C	03/29/15 13:51	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/29/15 13:51	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/31/15 11:02	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	03/29/15 13:51	JDH	
Zinc [7440-66-6] ^	**5.27**	J	ug/L	1	3.80	10.0	10	EPA 6010C	03/29/15 13:51	JDH	

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Description: 4501-MW13 | **Lab Sample ID:** C502191-04 | **Received:** 03/20/15 11:30

Matrix: Ground Water | **Sampled:** 03/18/15 09:40 | **Work Order:** C502191

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] ^	**5600**		ug/L	1	2200	5000	NE	EPA 300.0	03/31/15 18:36	SHA	
Sulfate as SO4 [14808-79-8] ^	**17000**	J	ug/L	1	2900	5000	250000	EPA 300.0	03/31/15 18:36	SHA	
Total Alkalinity as CaCO3 [471-34-1] ^	**120000**		ug/L	1	14000	15000	NE	EPA 310.2	03/26/15 13:51	SHA	
Total Dissolved Solids^	**150000**		ug/L	1	10000	10000	NE	SM 2540C-1997	03/24/15 10:17	MMR	

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Description: 4501-MW13 | **Lab Sample ID:** C502191-04 | **Received:** 03/20/15 11:30
Matrix: Ground Water | **Sampled:** 03/18/15 09:40 | **Work Order:** C502191
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] ^	**0.82**	J	ug/L	1	0.27	0.50	2	EPA 8151A	04/02/15 01:33	rc	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*1.4*	*1*	*2.00*	*70 %*	*48-151*	*5C25005*	*EPA 8151A*	*04/02/15 01:33*	*rc*	

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QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 5C30031 - EPA 5030B_MS

Blank (5C30031-BLK1) Prepared: 03/30/2015 16:18 Analyzed: 03/30/2015 21:41

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 5C30031 - EPA 5030B_MS

Blank (5C30031-BLK1) Continued Prepared: 03/30/2015 16:18 Analyzed: 03/30/2015 21:41

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: 4-Bromofluorobenzene	*56*			*ug/L*	*50.0*		*113*	*53-136*			
Surrogate: Dibromofluoromethane	*54*			*ug/L*	*50.0*		*108*	*67-129*			
Surrogate: Toluene-d8	*55*			*ug/L*	*50.0*		*111*	*59-134*			

LCS (5C30031-BS1) Prepared: 03/30/2015 16:18 Analyzed: 03/30/2015 22:11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0		104	75-133			
Benzene	18		1.0	ug/L	20.0		92	81-134			
Chlorobenzene	21		1.0	ug/L	20.0		105	83-117			
Toluene	18		1.0	ug/L	20.0		92	71-118			
Trichloroethene	23		1.0	ug/L	20.0		115	74-119			

Matrix Spike (5C30031-MS1) Prepared: 03/30/2015 16:18 Analyzed: 03/30/2015 22:40

Source: C502191-02

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	105	81-134			
Chlorobenzene	22		1.0	ug/L	20.0	0.17 U	109	83-117			
Toluene	19		1.0	ug/L	20.0	0.14 U	95	71-118			
Trichloroethene	25		1.0	ug/L	20.0	0.15 U	125	74-119			QM-07

Matrix Spike Dup (5C30031-MSD1) Prepared: 03/30/2015 16:18 Analyzed: 03/30/2015 23:09

Source: C502191-02

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	0.4	20	
Benzene	21		1.0	ug/L	20.0	0.15 U	106	81-134	0.6	17	
Chlorobenzene	22		1.0	ug/L	20.0	0.17 U	109	83-117	0.2	16	
Toluene	20		1.0	ug/L	20.0	0.14 U	99	71-118	4	17	
Trichloroethene	25		1.0	ug/L	20.0	0.15 U	126	74-119	0.9	22	QM-07

Batch 5C31029 - EPA 5030B_MS

Blank (5C31029-BLK1) Prepared: 03/31/2015 08:17 Analyzed: 03/31/2015 10:50

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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QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 5C31029 - EPA 5030B_MS

Blank (5C31029-BLK1) Continued Prepared: 03/31/2015 08:17 Analyzed: 03/31/2015 10:50

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	*54*			*ug/L*	*50.0*		*107*	*53-136*			
Surrogate: Dibromofluoromethane	*50*			*ug/L*	*50.0*		*101*	*67-129*			
Surrogate: Toluene-d8	*55*			*ug/L*	*50.0*		*109*	*59-134*			

LCS (5C31029-BS1) Prepared: 03/31/2015 08:17 Analyzed: 03/31/2015 11:19

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		93	81-134			

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QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 5C31029 - EPA 5030B_MS

LCS (5C31029-BS1) Continued Prepared: 03/31/2015 08:17 Analyzed: 03/31/2015 11:19

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chlorobenzene	20		1.0	ug/L	20.0		101	83-117			
Toluene	17		1.0	ug/L	20.0		87	71-118			
Trichloroethene	23		1.0	ug/L	20.0		113	74-119			

Matrix Spike (5C31029-MS1) Prepared: 03/31/2015 08:17 Analyzed: 03/31/2015 11:48

Source: C503934-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	17		1.0	ug/L	20.0	0.21 U	87	75-133			
Benzene	18		1.0	ug/L	20.0	0.15 U	92	81-134			
Chlorobenzene	21		1.0	ug/L	20.0	0.17 U	104	83-117			
Toluene	18		1.0	ug/L	20.0	0.14 U	92	71-118			
Trichloroethene	22		1.0	ug/L	20.0	0.15 U	109	74-119			

Matrix Spike Dup (5C31029-MSD1) Prepared: 03/31/2015 08:17 Analyzed: 03/31/2015 12:17

Source: C503934-10

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	100	75-133	15	20	
Benzene	19		1.0	ug/L	20.0	0.15 U	93	81-134	0.8	17	
Chlorobenzene	19		1.0	ug/L	20.0	0.17 U	95	83-117	9	16	
Toluene	18		1.0	ug/L	20.0	0.14 U	89	71-118	3	17	
Trichloroethene	22		1.0	ug/L	20.0	0.15 U	109	74-119	0.2	22	

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 5D01012 - EPA 7470A

Blank (5D01012-BLK1) Prepared: 04/01/2015 10:23 Analyzed: 04/03/2015 15:28

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 (5D01012-BS1) Prepared: 04/01/2015 10:23 Analyzed: 04/03/2015 15:32

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.58		0.200	ug/L	5.00		92	80-120			

Matrix Spike (5D01012-MS1) Prepared: 04/01/2015 10:23 Analyzed: 04/03/2015 15:37

Source: C502191-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	3.84		0.200	ug/L	5.00	0.170 U	77	75-125			

Matrix Spike Dup (5D01012-MSD1) Prepared: 04/01/2015 10:23 Analyzed: 04/03/2015 15:40

Source: C502191-02

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QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 5D01012 - EPA 7470A

Matrix Spike Dup (5D01012-MSD1) Continued Prepared: 04/01/2015 10:23 Analyzed: 04/03/2015 15:40

Source: C502191-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	3.67		0.200	ug/L	5.00	0.170 U	73	75-125	5	25	QM-07

Post Spike (5D01012-PS1) Prepared: 04/01/2015 10:23 Analyzed: 04/03/2015 15:42

Source: C502191-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	3.35		0.200	ug/L	5.00	0.0740	66	75-125			QM-08

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

Batch 5C25020 - EPA 3005A

Blank (5C25020-BLK1) Prepared: 03/25/2015 10:20 Analyzed: 03/29/2015 13:14

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	6.80	U	10.0	ug/L							
Barium	1.00	U	10.0	ug/L							
Beryllium	0.100	U	1.00	ug/L							
Cadmium	0.360	U	1.00	ug/L							
Chromium	1.40	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	3.10	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 (5C25020-BS1) Prepared: 03/25/2015 10:20 Analyzed: 03/29/2015 13:21

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	213		10.0	ug/L	200		106	80-120			
Barium	222		10.0	ug/L	200		111	80-120			
Beryllium	21.2		1.00	ug/L	20.0		106	80-120			
Cadmium	22.3		1.00	ug/L	20.0		111	80-120			
Chromium	212		10.0	ug/L	200		106	80-120			
Cobalt	214		10.0	ug/L	200		107	80-120			
Copper	209		10.0	ug/L	200		104	80-120			
Iron	1110		50.0	ug/L	1000		111	80-120			
Lead	214		10.0	ug/L	200		107	80-120			
Manganese	213		10.0	ug/L	200		106	80-120			
Nickel	221		10.0	ug/L	200		110	80-120			
Selenium	219		10.0	ug/L	200		110	80-120			
Silver	208		10.0	ug/L	200		104	80-120			

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QUALITY CONTROL

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

Batch 5C25020 - EPA 3005A

LCS (5C25020-BS1) Continued Prepared: 03/25/2015 10:20 Analyzed: 03/29/2015 13:21

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vanadium	206		10.0	ug/L	200		103	80-120			
Zinc	227		10.0	ug/L	200		113	80-120			

Matrix Spike (5C25020-MS1) Prepared: 03/25/2015 10:20 Analyzed: 03/29/2015 13:33

Source: C502191-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	220		10.0	ug/L	200	6.80 U	110	75-125			
Barium	397		10.0	ug/L	200	155	121	75-125			
Beryllium	23.8		1.00	ug/L	20.0	1.37	112	75-125			
Cadmium	22.8		1.00	ug/L	20.0	0.360 U	114	75-125			
Chromium	220		10.0	ug/L	200	1.40 U	110	75-125			
Cobalt	224		10.0	ug/L	200	1.29	112	75-125			
Copper	226		10.0	ug/L	200	4.30	111	75-125			
Iron	6810		50.0	ug/L	1000	5720	108	75-125			
Lead	224		10.0	ug/L	200	3.10 U	112	75-125			
Manganese	816		10.0	ug/L	200	593	111	75-125			
Nickel	246		10.0	ug/L	200	14.3	116	75-125			
Selenium	228		10.0	ug/L	200	5.00 U	114	75-125			
Silver	217		10.0	ug/L	200	1.90 U	109	75-125			
Vanadium	219		10.0	ug/L	200	2.39	108	75-125			
Zinc	492		10.0	ug/L	200	265	113	75-125			

Matrix Spike Dup (5C25020-MSD1) Prepared: 03/25/2015 10:20 Analyzed: 03/29/2015 13:36

Source: C502191-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	223		10.0	ug/L	200	6.80 U	111	75-125	1	20	
Barium	386		10.0	ug/L	200	155	115	75-125	3	20	
Beryllium	24.2		1.00	ug/L	20.0	1.37	114	75-125	1	20	
Cadmium	23.1		1.00	ug/L	20.0	0.360 U	116	75-125	1	20	
Chromium	224		10.0	ug/L	200	1.40 U	112	75-125	2	20	
Cobalt	225		10.0	ug/L	200	1.29	112	75-125	0.2	20	
Copper	229		10.0	ug/L	200	4.30	112	75-125	1	20	
Iron	7130		50.0	ug/L	1000	5720	141	75-125	5	20	QM-05
Lead	225		10.0	ug/L	200	3.10 U	113	75-125	0.8	20	
Manganese	834		10.0	ug/L	200	593	120	75-125	2	20	
Nickel	246		10.0	ug/L	200	14.3	116	75-125	0.1	20	
Selenium	236		10.0	ug/L	200	5.00 U	118	75-125	3	20	
Silver	220		10.0	ug/L	200	1.90 U	110	75-125	2	20	
Vanadium	222		10.0	ug/L	200	2.39	110	75-125	2	20	
Zinc	500		10.0	ug/L	200	265	117	75-125	2	20	

Post Spike (5C25020-PS1) Prepared: 03/25/2015 10:20 Analyzed: 03/29/2015 13:38

Source: C502191-02

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

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QUALITY CONTROL

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

Batch 5C25020 - EPA 3005A

Post Spike (5C25020-PS1) Continued Prepared: 03/25/2015 10:20 Analyzed: 03/29/2015 13:38

Source: C502191-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	0.203		0.0100	mg/L	0.200	0.00221	100	80-120			
Barium	0.370		0.0100	mg/L	0.200	0.155	107	80-120			
Beryllium	0.0220		0.00100	mg/L	0.0200	0.00137	103	80-120			
Cadmium	0.0209		0.00100	mg/L	0.0200	-0.000188	104	80-120			
Chromium	0.203		0.0100	mg/L	0.200	0.000728	101	80-120			
Cobalt	0.205		0.0100	mg/L	0.200	0.00129	102	80-120			
Copper	0.208		0.0100	mg/L	0.200	0.00430	102	80-120			
Iron	6.64		0.0500	mg/L	1.00	5.72	91	80-120			
Lead	0.203		0.0100	mg/L	0.200	0.000104	102	80-120			
Manganese	0.789		0.0100	mg/L	0.200	0.593	98	80-120			
Nickel	0.223		0.0100	mg/L	0.200	0.0143	105	80-120			
Selenium	0.203		0.0100	mg/L	0.200	0.00382	100	80-120			
Silver	0.200		0.0100	mg/L	0.200	0.000571	100	80-120			
Vanadium	0.202		0.0100	mg/L	0.200	0.00239	100	80-120			
Zinc	0.469		0.0100	mg/L	0.200	0.265	102	80-120			

Batch 5C25024 - EPA 3005A

Blank (5C25024-BLK1) Prepared: 03/25/2015 10:33 Analyzed: 03/31/2015 13:35

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 (5C25024-BS1) Prepared: 03/25/2015 10:33 Analyzed: 03/31/2015 10:33

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	217		2.00	ug/L	200		109	80-120			
Thallium	226		1.00	ug/L	200		113	80-120			

Matrix Spike (5C25024-MS1) Prepared: 03/25/2015 10:33 Analyzed: 03/31/2015 10:41

Source: C502191-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	224		2.00	ug/L	200	0.742	112	75-125			
Thallium	194		1.00	ug/L	200	0.202	97	75-125			

Matrix Spike Dup (5C25024-MSD1) Prepared: 03/25/2015 10:33 Analyzed: 03/31/2015 10:44

Source: C502191-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	222		2.00	ug/L	200	0.742	111	75-125	0.6	20	
Thallium	193		1.00	ug/L	200	0.202	96	75-125	0.3	20	

Post Spike (5C25024-PS1) Prepared: 03/25/2015 10:33 Analyzed: 03/31/2015 10:48

Source: C502191-02

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QUALITY CONTROL

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

Batch 5C25024 - EPA 3005A

Post Spike (5C25024-PS1) Continued Prepared: 03/25/2015 10:33 Analyzed: 03/31/2015 10:48

Source: C502191-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	208		2.00	ug/L	200	0.742	104	80-120			
Thallium	177		1.00	ug/L	200	0.202	88	80-120			

Classical Chemistry Parameters - Quality Control

Batch 5C24005 - NO PREP

Blank (5C24005-BLK1) Prepared & Analyzed: 03/24/2015 10:17

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 (5C24005-BS1) Prepared & Analyzed: 03/24/2015 10:17

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	970		10	mg/L	1000		97	90-110			

Duplicate (5C24005-DUP1) Prepared & Analyzed: 03/24/2015 10:17

Source: C502191-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	350000		10000	ug/L		330000			6	5	QM-12

Batch 5C26012 - NO PREP

Blank (5C26012-BLK1) Prepared: 03/26/2015 10:09 Analyzed: 03/26/2015 13:44

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 (5C26012-BS1) Prepared: 03/26/2015 10:09 Analyzed: 03/26/2015 13:45

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity as CaCO3	110		15	mg/L	100		105	80-120			

Matrix Spike (5C26012-MS1) Prepared: 03/26/2015 10:09 Analyzed: 03/26/2015 13:46

Source: C502191-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity as CaCO3	160000		15000	ug/L	37800	120000	93	80-120			

Matrix Spike Dup (5C26012-MSD1) Prepared: 03/26/2015 10:09 Analyzed: 03/26/2015 13:47

Source: C502191-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity as CaCO3	160000		15000	ug/L	37800	120000	105	80-120	3	25	

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QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 5C26012 - NO PREP

Batch 5C31021 - NO PREP

Blank (5C31021-BLK1) Prepared: 03/31/2015 10:58 Analyzed: 03/31/2015 16:26

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 (5C31021-BS1) Prepared: 03/31/2015 10:58 Analyzed: 03/31/2015 15:49

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	50000		5000	ug/L	50000		101	90-110			
Sulfate as SO4	50000		5000	ug/L	50000		101	90-110			

Matrix Spike (5C31021-MS1) Prepared: 03/31/2015 10:58 Analyzed: 03/31/2015 16:45

Source: C502191-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	80000		5000	ug/L	20000	60000	96	90-110			

Matrix Spike (5C31021-MS2) Prepared: 03/31/2015 10:58 Analyzed: 04/01/2015 10:19

Source: C502191-02RE1

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	120000		10000	ug/L	40000	78000	115	90-110			QM-05

Matrix Spike Dup (5C31021-MSD1) Prepared: 03/31/2015 10:58 Analyzed: 03/31/2015 17:03

Source: C502191-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	84000		5000	ug/L	20000	60000	115	90-110	5	10	QM-05

Matrix Spike Dup (5C31021-MSD2) Prepared: 03/31/2015 10:58 Analyzed: 04/01/2015 10:38

Source: C502191-02RE1

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	120000		10000	ug/L	40000	78000	116	90-110	0.4	10	QM-05

QUALITY CONTROL

Chlorinated Herbicides by GC - Quality Control

Batch 5C25005 - EPA 3510C

Blank (5C25005-BLK1) Prepared: 03/25/2015 10:45 Analyzed: 04/01/2015 17:25

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*		*95*	*48-151*			

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QUALITY CONTROL

Chlorinated Herbicides by GC - Quality Control

Batch 5C25005 - EPA 3510C

Blank (5C25005-BLK2) Prepared: 03/25/2015 10:45 Analyzed: 04/01/2015 20:25

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4-D	1.4	U	2.5	ug/L							
Surrogate: 2,4-DCAA	*7.7*			*ug/L*	*10.0*		*77*	*48-151*			

Blank (5C25005-BLK3) Prepared: 03/25/2015 10:45 Analyzed: 04/01/2015 20:51

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4-D	1.4	U	2.5	ug/L							
Surrogate: 2,4-DCAA	*8.0*			*ug/L*	*10.0*		*80*	*48-151*			

LCS (5C25005-BS1) Prepared: 03/25/2015 10:45 Analyzed: 04/01/2015 17:51

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4-D	2.2		0.50	ug/L	2.00		108	37-129			
Surrogate: 2,4-DCAA	*2.0*			*ug/L*	*2.00*		*100*	*48-151*			

Matrix Spike (5C25005-MS1) Prepared: 03/25/2015 10:45 Analyzed: 04/01/2015 18:16

Source: A501808-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4-D	2.4		0.50	ug/L	2.00	0.27 U	119	37-129			
Surrogate: 2,4-DCAA	*2.2*			*ug/L*	*2.00*		*109*	*48-151*			

Matrix Spike (5C25005-MS2) Prepared: 03/25/2015 10:45 Analyzed: 04/01/2015 21:16

Source: C502191-02

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	82	37-129			
Surrogate: 2,4-DCAA	*1.7*			*ug/L*	*2.00*		*85*	*48-151*			

Matrix Spike Dup (5C25005-MSD1) Prepared: 03/25/2015 10:45 Analyzed: 04/01/2015 18:42

Source: A501808-04

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	0.27 U	90	37-129	27	33	
Surrogate: 2,4-DCAA	*1.6*			*ug/L*	*2.00*		*82*	*48-151*			

Matrix Spike Dup (5C25005-MSD2) Prepared: 03/25/2015 10:45 Analyzed: 04/01/2015 21:42

Source: C502191-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4-D	1.1		0.50	ug/L	2.00	0.27 U	54	37-129	43	33	QM-11
Surrogate: 2,4-DCAA	*1.0*			*ug/L*	*2.00*		*52*	*48-151*			

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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.
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.
QM-12	Precision between duplicate samples was outside acceptance limits.

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ENCO
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

CHAIN-OF-CUSTODY RECORD

Client Name: Golder Associates, Inc. (GO007)	Project Number: 0839-6506014.102
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: Anna Stoddard	Site Location / Time Zone: Hendersonville, NC / EST

Requested Analyses

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

✓ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C502191

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,Sn,Tl,V,Zn	Alkalinity 310.2,Chloride 300,TDS SM2540C	Hg	Sulfate 300					Sample Comments
							Preservation (See Codes) (Combine as necessary)										
	4501-MW10	3/18/15	1100	G	GW	6	X	X	X	X	X	X					
	4501-MW11 (MS/MSD)	3/18/15	1005	G	GW	11	X	X	X	X	X	X					
	4501-MW12	3/18/15	1115	G	GW	6	X	X	X	X	X	X					
	4501-MW13	3/18/15	0940	G	GW	6	X	X	X	X	X	X					

<-- Total # of Containers

Sample Kit Prepared By: JK	Date/Time: 2.25	Relinquished By: Anna Stoddard	Date/Time: 3/20/15 / 9AM	Received By:	Date/Time: 3.2015 1130
Comments/Special Reporting Requirements: 1. Level 2 data report 2. Unit Rates per "Basic Ordering Agreement for lab Services..."		Relinquished By:	Date/Time:	Received By:	Date/Time:
		Relinquished By:	Date/Time:	Received By:	Date/Time:
		Cooler #'s & Temps on Receipt: C 215 1.8c		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)

WORK ORDER

Printed: 4/3/2015 5:10:25PM

C502191

ENCO Cary

Sample Receipt Conditions

Client:	**Golder Associates, Inc. (GO007)**	**Lab Project Mgr:**	**Stephanie Franz**
Project:	**Henderson Co. LF C&D**	**Project Number:**	**0839-6506014.102**
PO #:			

Report To:

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

Invoice To:

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

Received By:	John C King	Date Received:	20-Mar-15 11:30
Logged In By:	John C King	Date Logged In:	20-Mar-15 13:53

Work Order Comments:

C-215 received at 1.8°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: 0839-650614.102

Sampling Event Date: March 18-19, 2015

Review Date: May 7, 2015 *Initials:* AS

Report #: C502191

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

AS COC was properly signed by all parties.

AS Correct project name and number are on the form.

AS Sample receipt condition at laboratory was acceptable.

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

2.0 SAMPLE HOLDING TIMES

AS 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

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

AS Laboratory blank is interference-free.

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

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

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

AS 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 Trichloroethene was outside of control limits for the 8260B MS and MSD samples. The QC batch was approved based in acceptable LCS recovery of this analyte.***

- ***Precision between duplicate spikes of 2,4-D exceeded acceptance criteria for the 8151 A MS and MSD samples; however the individual recoveries were within control limits. The QC batch was approved based on acceptable LCS recovery of this analyte and completeness of the QC data.***

- ***The spike recoveries of Iron and Mercury were outside of control limits for the 6010C and 7470 A (respectively) MSD and/or Post Spike samples. The QC batches were approved based in acceptable recovery of these elements.***

- ***The spike recoveries of Chloride and Sulfate were outside of control limits for the 300.0 MS and/or MSD samples. Precision between duplicate analyses of TDS exceeded acceptance criteria. The QC batches were approved based on acceptable LCS recovery of these analytes.***

4.0 ANALYTE LISTS/METHODS

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

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

5.0 DATA REPORTING

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

AS 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.

AS 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.

AS The report provides the reporting limit for each constituent.

AS 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.

AS 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 @ 1.29 ug/L (J)***
- **Iron** ***(NC2L = 300 ug/L)***
  - ***MW-10 @ 659 ug/L***
  - ***MW-11 @ 5720ug/L***
  - ***MW-12 @ 880ug/L***
  - ***MW-13 @ 74.0 ug/L***
- ***Vanadium*** ***(GWPS = 0.3 ug/L)***
  - ***MW-10 @ 1.62 (J)***
  - ***MW-11 @ 2.39 (J)***
  - ***MW-12 @ 1.87 (J)***
- **Manganese** ***(NC2L = 50 ug/L)***
  - ***MW-11 @ 593 ug/L***
  - ***MW-12 @ 124 ug/L***
- **Vinyl Chloride** ***(NC2L = 0.03 ug/L)***
  - ***MW-11 @ 0.85 ug/L (J)***
  - ***MW-12 @ 0.86 ug/L (J)***
  - ***MW-13 @ 2.5 ug/L***

AS 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).

- **Thallium**
  - ***MW-10 @ 0.251 ug/L (first-time detection)***
  - ***MW-11 @ 0.202 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

Closed MSW Landfill													
March 2015													
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	MW-9
Barium	ug/L	Interwell	Nonparametric Prediction Interval	348	27.4 J	535	710	538	11.0 J	11.7 J	2.26 J	226
		MW-8 Intrawell	Upper Prediction Interval	1461								
Cadmium	ug/L	Interwell	Poisson Prediction Interval	1.96	ND	2.18	ND	1.63	ND	ND	ND	ND
		MW-7 Intrawell	Nonparametric Prediction Interval	22								
Mercury	ug/L	Interwell	Poisson Prediction Interval	1.10	ND	ND	ND	ND	ND	1.49	ND	ND
		AMW-2S Intrawell	Nonparametric Prediction Interval	1.53								

Closed C&D Landfill							
March 2015							
Detected Monitoring Constituent/Analytes	Reporting Units	Statistical Evaluation Method		Prediction Interval	Downgradient Monitoring Wells and Concentrations		
					MW-11	MW-12	MW-13
Iron	ug/L	Interwell	Upper Prediction Limit	46522	5720	880	214 J
Manganese	ug/L	Interwell	Upper Prediction Limit	1339	593	124	74.0

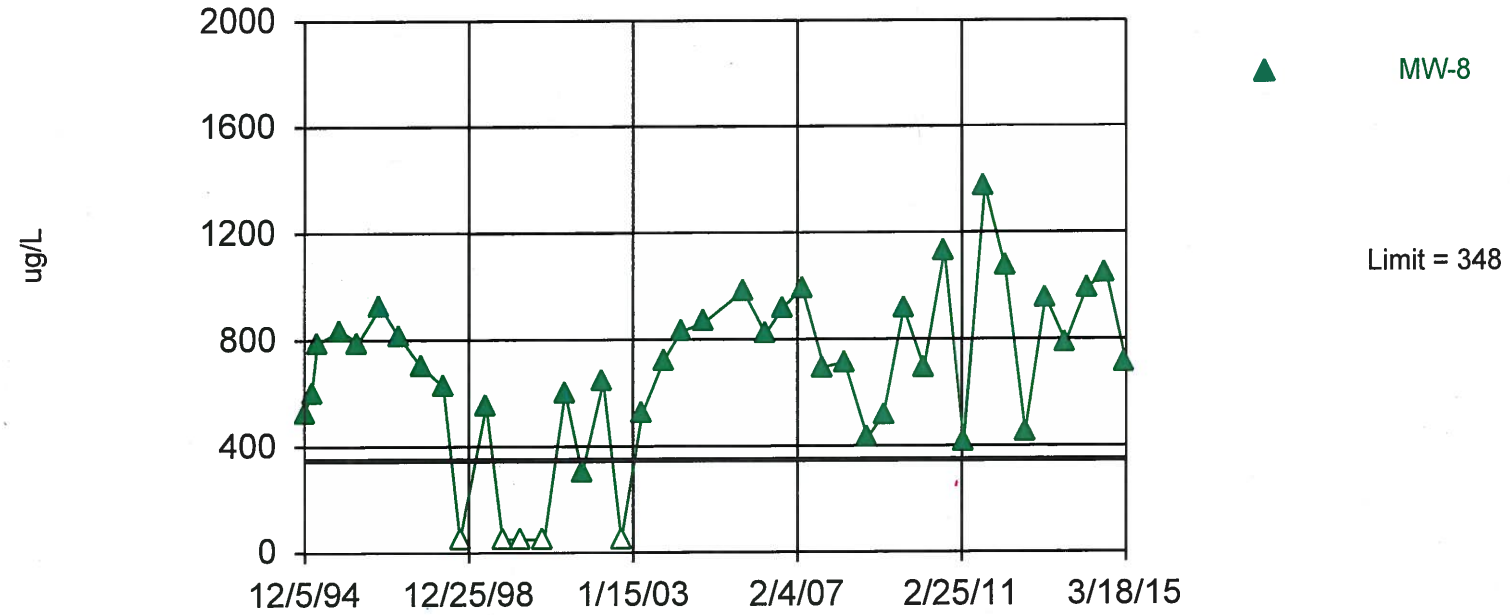
Notes:
1. Shaded values represent apparent statistical significant increases (SSIs) over background concentrations. The mercury detection in AMW-2S is considered an SSI for the Sept 2014 monitoring event.
2. Statistical worksheets are provided as Appendix C.
3. ug/L = micrograms per liter
4. J = estimated 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

WQStat Plus™ v.9.4.41
Hollow symbols indicate censored values.

Exceeds Limit: MW-8

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 81.4% NDs. Report alpha = 0.1042. Individual comparison alpha = 0.02176. Based on user-set k of 5 (assumes 4 future values). Insufficient data to test for seasonality; data will not be deseasonalized.

Constituent: Barium Analysis Run 5/12/2015 9:43 AM

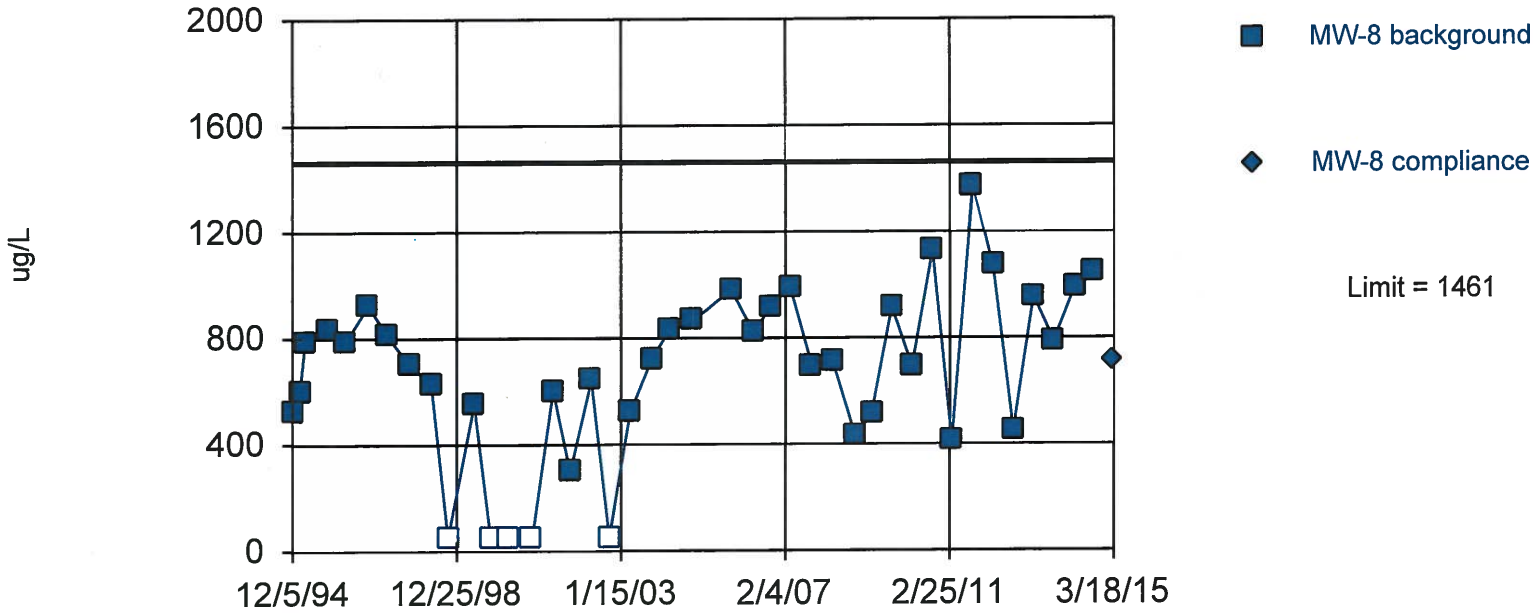
Facility: Henderson County Landfill Data File: Book2

WQStat Plus™ v.9.4.41
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=677.7, Std. Dev.=319.4, n=41, 12.2% NDs. Insufficient data to test for seasonality: data were not deseasonalized. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Barium Analysis Run 5/12/2015 9:43 AM

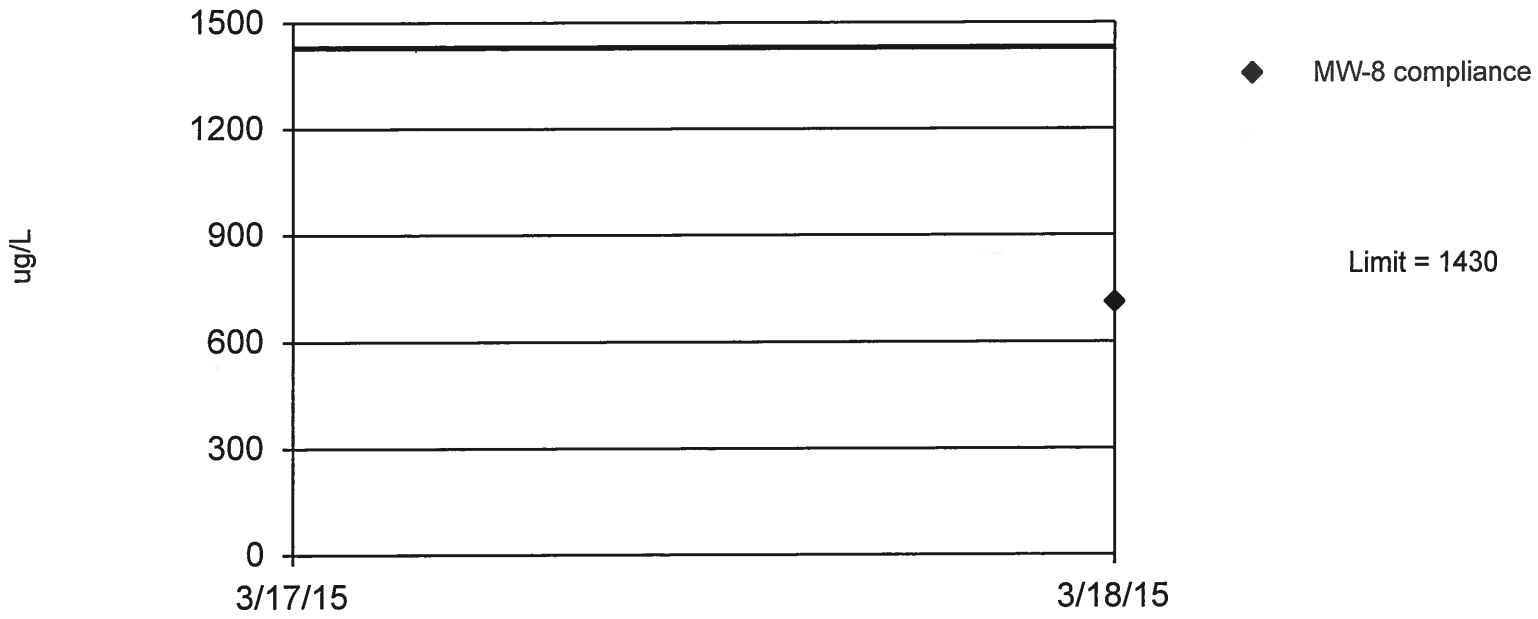
Facility: Henderson County Landfill Data File: Book2

WQStat Plus™ v.9.4.41

Within Limit

Tolerance Limit

Intrawell Parametric



95% coverage. Background Data Summary: Mean=677.7, Std. Dev.=319.4, n=41, 12.2% NDs. Report alpha = 0.01.

Constituent: Barium Analysis Run 5/12/2015 9:43 AM

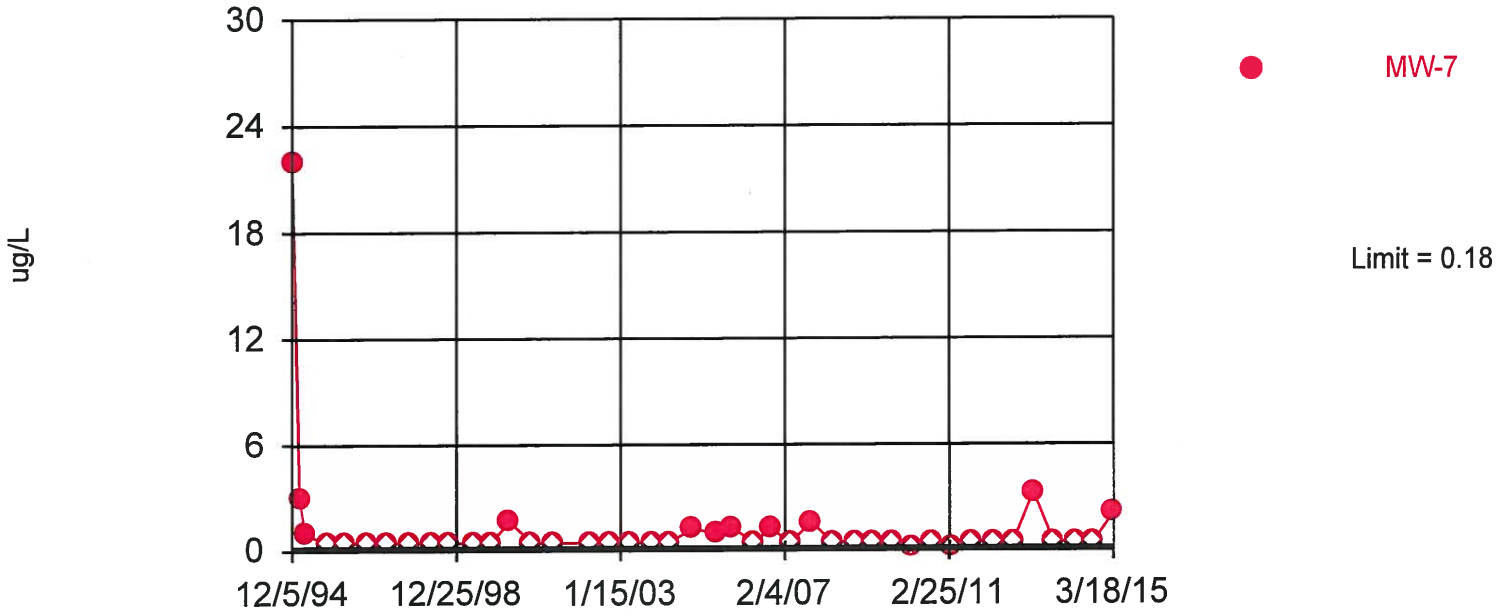
Facility: Henderson County Landfill Data File: Book2

WQStat Plus™ v.9.4.41
Hollow symbols indicate censored values.

Exceeds Limit: MW-7

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Most recent observation is compared with limit. All background values were censored; limit is most recent reporting limit. 90.04% coverage at alpha=0.01; 93.16% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1102.

Constituent: Cadmium Analysis Run 5/12/2015 9:39 AM

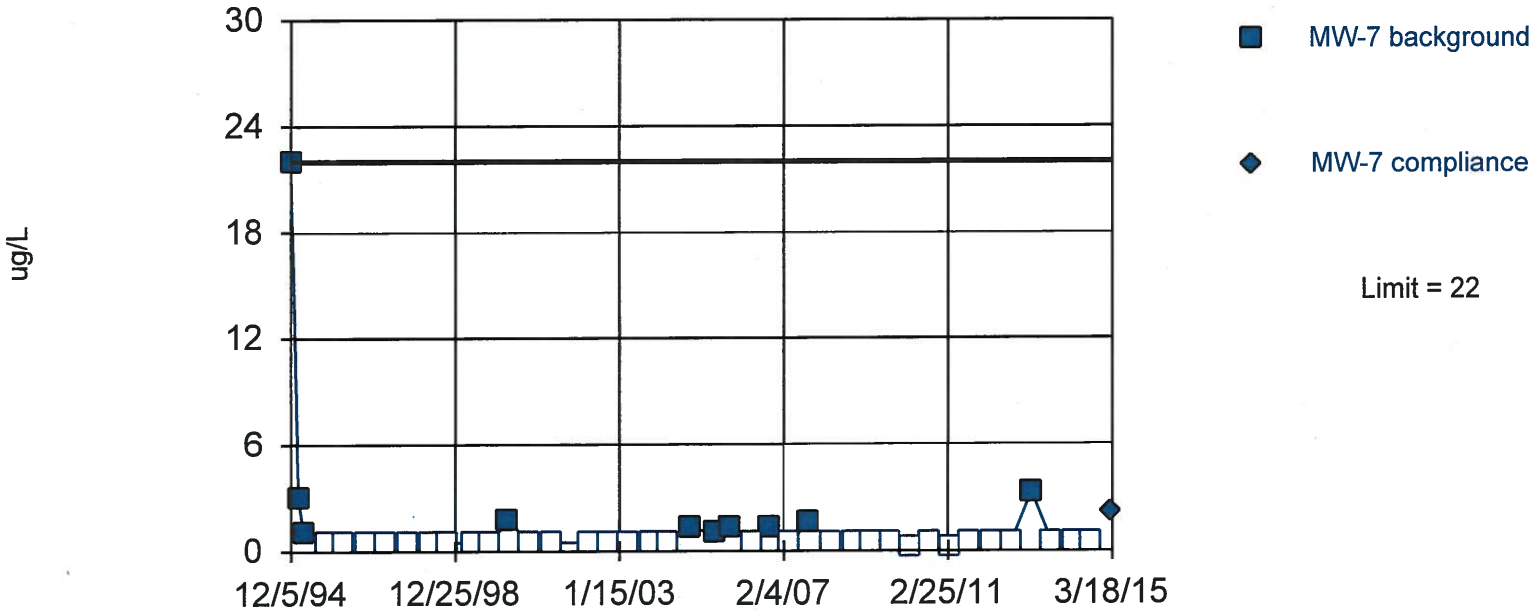
Facility: Henderson County Landfill Data File: Book2

WQStat Plus™ v.9.4.41
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



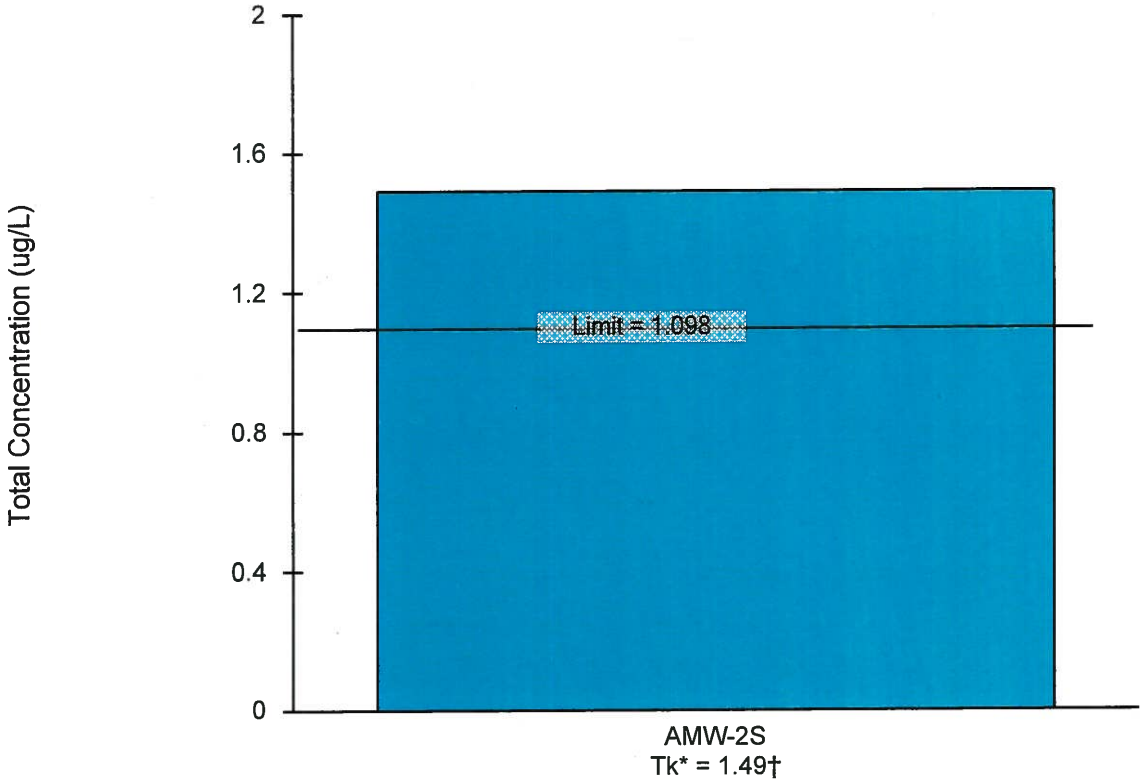
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 41 background values. 75.61% NDs. Report alpha = 0.02381. Most recent point compared to limit. Insufficient data to test for seasonality: data were notdeseasonalized.

Constituent: Cadmium Analysis Run 5/12/2015 9:40 AM

Facility: Henderson County Landfill Data File: Book2

Poisson Prediction Limit

MW-5,AMW-2S



†Exceeds Predicted Limit.

Poisson test used in lieu of parametric prediction limit because censored data exceeded 90%. 94.74% NDs.
Comparing 1 point per well to limit. Per-wel alpha = 0.01.

Constituent: Mercury Analysis Run 5/12/2015 9:44 AM

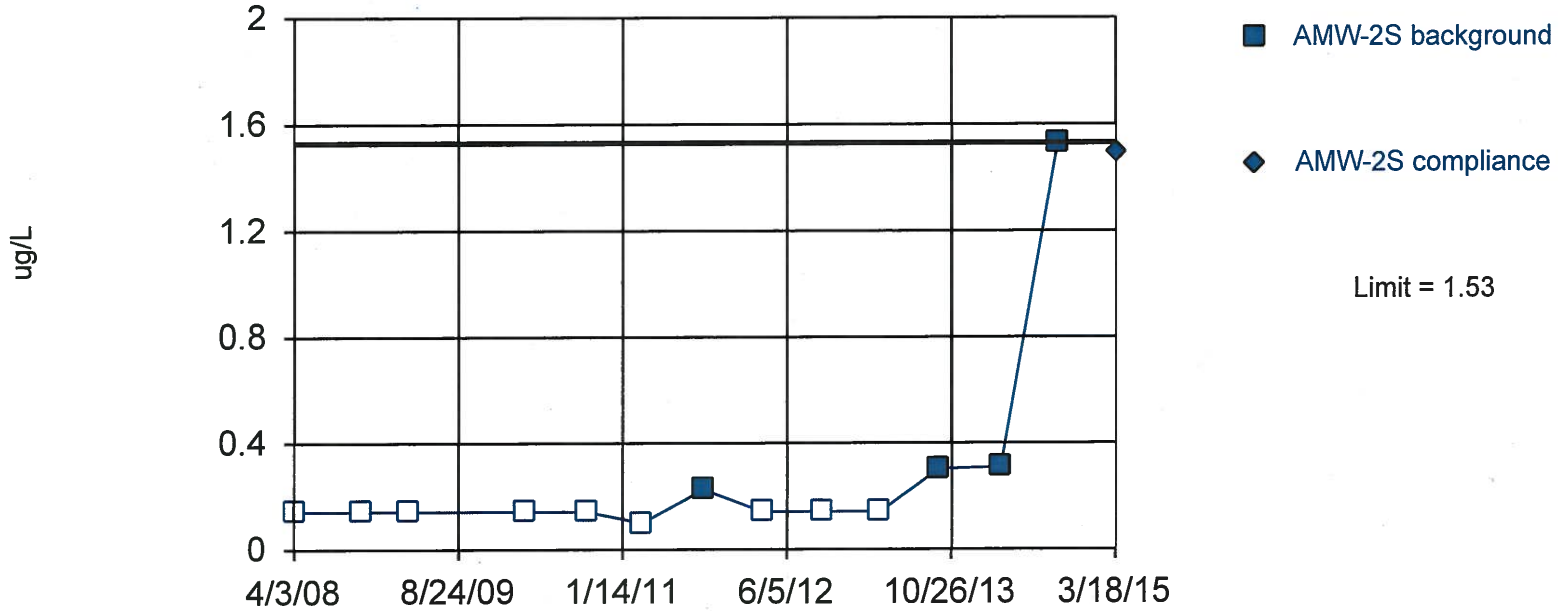
Facility: Henderson County Landfill Data File: Book2

WQStat Plus™ v.9.4.41
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 13 background values. 69.23% NDs. Report alpha = 0.07143. Most recent point compared to limit. Insufficient data to test for seasonality: data were notdeseasonalized.

Constituent: Mercury Analysis Run 5/12/2015 9:45 AM

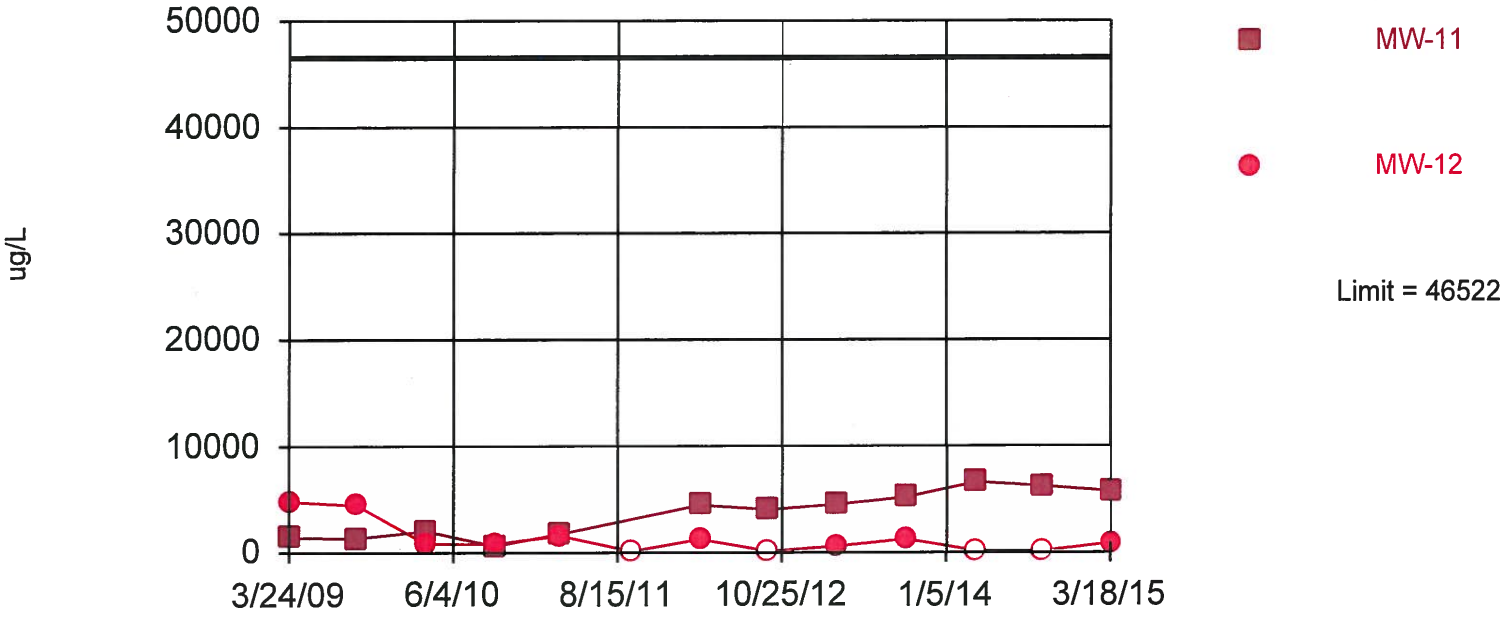
Facility: Henderson County Landfill Data File: Book2

WQStat Plus™ v.9.4.41
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Parametric



Background Data Summary (after Aitchison`s Adjustment): Mean=5861, Std. Dev.=14615, n=13, 38.46% NDs. Insufficient data to test for seasonality; data will not be deseasonalized. Report alpha = 0.05. Individual comparison alpha = 0.01. Based on user-set k of 5 (assumes 3 future values).

Constituent: Iron Analysis Run 5/22/2015 10:47 AM

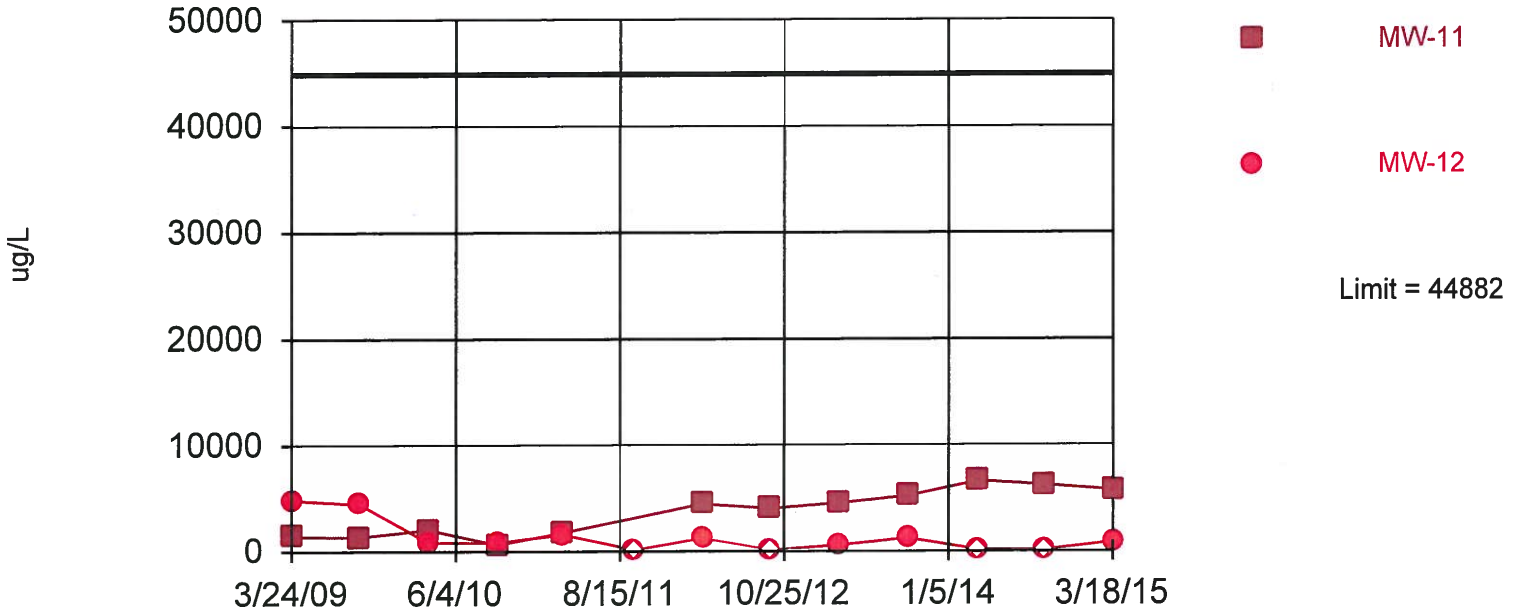
Facility: Henderson County C&D Landfill Data File: Henderson C&D Stats

WQStat Plus™ v.9.4.41
Hollow symbols indicate censored values.

Within Limit

Tolerance Limit

Interwell Parametric



95% coverage. Most recent observation is compared with limit. Background Data Summary (after Aitchison`s Adjustment): Mean=5861, Std. Dev.=14615, n=13, 38.46% NDs. Report alpha = 0.05.

Constituent: Iron Analysis Run 5/22/2015 10:49 AM

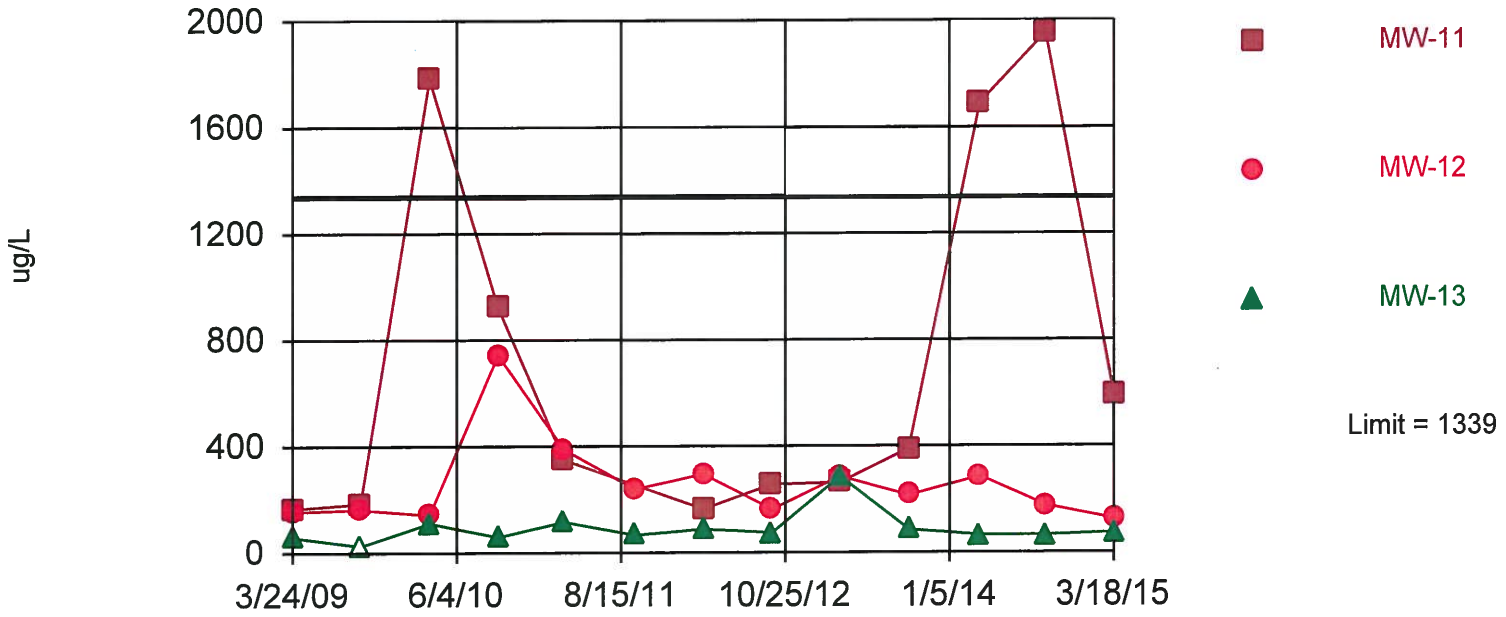
Facility: Henderson County C&D Landfill Data File: Henderson C&D Stats

WQStat Plus™ v.9.4.41
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Parametric



Background Data Summary (after Aitchison`s Adjustment): Mean=160, Std. Dev.=423.6, n=13, 38.46% NDs. Insufficient data to test for seasonality; data will not be deseasonalized. Report alpha = 0.05. Individual comparison alpha = 0.01. Based on user-set k of 5 (assumes 2 future values).

Constituent: Manganese Analysis Run 5/22/2015 10:53 AM

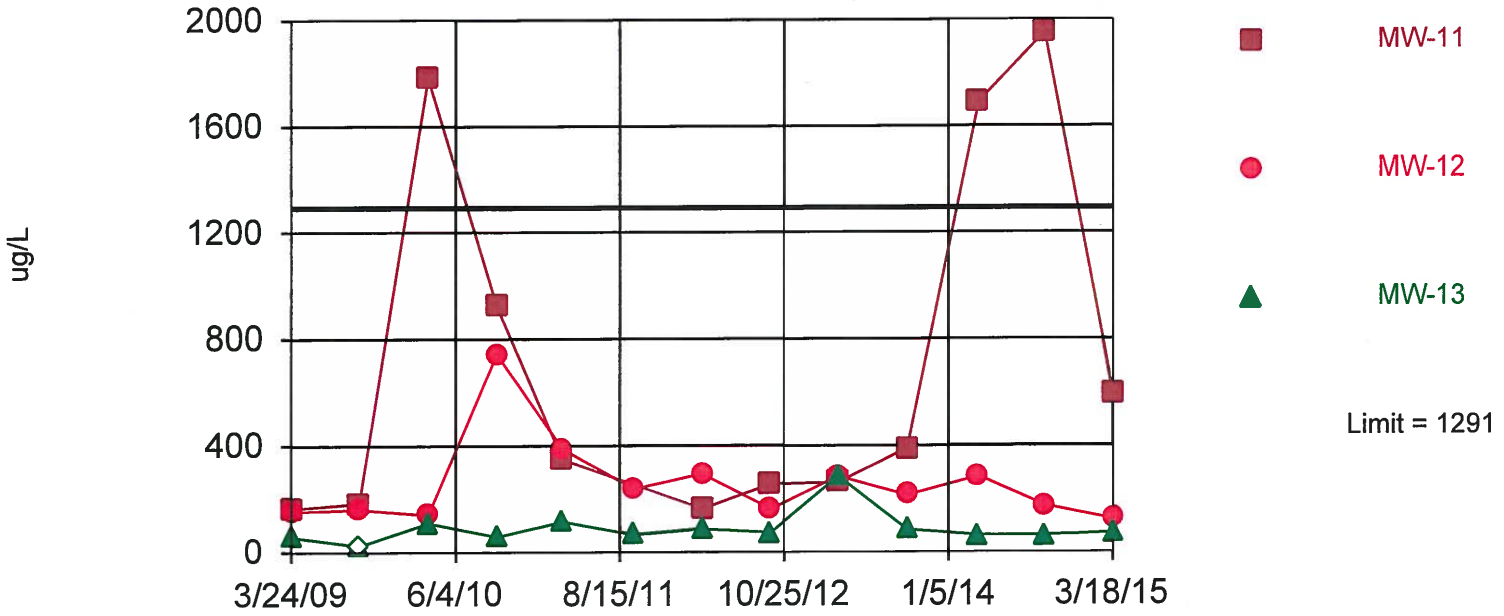
Facility: Henderson County C&D Landfill Data File: Henderson C&D Stats

WQStat Plus™ v.9.4.41
Hollow symbols indicate censored values.

Within Limit

Tolerance Limit

Interwell Parametric



95% coverage. Most recent observation is compared with limit. Background Data Summary (after Aitchison`s Adjustment): Mean=160, Std. Dev.=423.6, n=13, 38.46% NDs. Report alpha = 0.05.

Constituent: Manganese Analysis Run 5/22/2015 10:55 AM

Facility: Henderson County C&D Landfill Data File: Henderson C&D Stats

At Golder Associates we strive to be the most respected global group of companies specializing in ground engineering and environmental services. Employee owned since our formation in 1960, we have created a unique culture with pride in ownership, resulting in long-term organizational stability. Golder professionals take the time to build an understanding of client needs and of the specific environments in which they operate. We continue to expand our technical capabilities and have experienced steady growth with employees now operating from offices located throughout Africa, Asia, Australasia, Europe, North America and South America.

Africa	+ 27 11 254 4800
Asia	+ 852 2562 3658
Australasia	+ 61 3 8862 3500
Europe	+ 356 21 42 30 20
North America	+ 1 800 275 3281
South America	+ 55 21 3095 9500

solutions@golder.com
www.golder.com

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

Golder Associates