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

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

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

Instructions:

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

Solid Waste Monitoring Data Submittal Information

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

Joyce Engineering, Inc.

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

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

E-mail: vburbach@joyceengineering.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
OmniSource Landfill	1426 W. Mountain St. Kernersville, NC 27284	34-20	.0500	October 2, 2014 November 19, 2014

Environmental Status: (Check all that apply)

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

Type of data submitted: (Check all that apply)

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

Notification attached?

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

Certification

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

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

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

Signature | Date: 1/5/15

Affix NC Licensed/ Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 1349 GEOLOGIST G. VAN NESS BURBACH

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

Facility Representative Address

C-0782

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

Revised 6/2009

JOYCE ENGINEERING

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January 5, 2015

Ms. Jaclynne Drummond
Compliance Hydrogeologist
NC Department of Environment and Natural Resources
Division of Waste Management – Solid Waste Section
1646 Mail Service Center
Raleigh, North Carolina 27699-1646

RE: Second Semiannual Water Quality Monitoring Report of 2014
OmniSource Kernersville Landfill, Permit No. 34-20
Kernersville, North Carolina
JOYCE Project No. 00799.1303.11 Task No. 02

Dear Ms. Drummond:

On behalf of OmniSource Southeast, Joyce Engineering is submitting the *Second Semiannual Water Quality Monitoring Report of 2014* for the OmniSource Kernersville Landfill, Permit No. 34-20. The attached report contains electronic versions of the complete report and all appendices for the October 2014 sampling event. Also attached is the North Carolina Environmental Monitoring Reporting Form for the October 2014 monitoring event.

If you wish to have a hard copy of the report, drawings, or appendices, we will be happy to provide it upon your request. Please feel free to contact me or Alex Everhart at (336) 323-0092 if you have any questions regarding this report.

Sincerely,
JOYCE ENGINEERING

Van Burbach, Ph.D., P.G.
Technical Consultant

Attachment

C: James Winegar, OmniSource Southeast, LLC
Gary Cosentino, OmniSource Kernersville

PREPARED FOR:

OMNISOURCE SOUTHEAST, LLC
2233 WAL-PAT ROAD
SMITHFIELD, NC 27577

OMNISOURCE SOUTHEAST
KERNERSVILLE LANDFILL
PERMIT NO. 34-20

SECOND SEMIANNUAL WATER QUALITY MONITORING REPORT OF 2014

JANUARY 2015

PREPARED BY:

2211 WEST MEADOWVIEW ROAD, SUITE 101
GREENSBORO, NORTH CAROLINA 27407
NC LICENSE NUMBER C-0782
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JOYCE PROJECT NO. 799.1303.11

Second Semiannual Water Quality Monitoring Report of 2014
OmniSource Southeast Landfill, Permit No. 34-20
Kernersville, North Carolina

TABLE OF CONTENTS

1.0 INTRODUCTION

1.1 Site Information

The OmniSource Landfill is owned and operated by OmniSource Southeast, LLC and is located in Kernersville, Forsyth County, North Carolina. The existing landfill was initially permitted in the early 1970's by the state of North Carolina as a private industrial landfill used to dispose of residue from the automobile shredder under Permit Number 34-17, and was owned and operated by Atlantic Scrap and Processing, LLC. The landfill received automotive shredder residue (ASR, or "fluff") consisting of plastic, glass, rubber, foam, fabric, etc., that was generated by the on-site operations. The landfill stopped receiving waste and was closed in the mid 1990's. In 2005, the facility received a permit for a mining operation to recover additional metal from the ASR waste. Currently the facility is operating a landfill mining operation under Permit Number 34-20.

The OmniSource Landfill includes approximately 14 acres located within OmniSource-Southeast property located at 1426 West Mountain Street in Kernersville, North Carolina. Access to the landfill area is limited from the southern end by means of the fenced scrap processing area and from other directions by berms, topography, and the side-slopes of the landfill. The site location is shown on Figure 1 on an excerpt from the 7.5-minute USGS topographic map for the area.

1.2 Site Geology and Hydrogeology

The OmniSource Landfill is located in the Piedmont physiographic providence of North Carolina and is underlain by intrusive granitic rocks of Pennsylvanian to Permian age which are part of the Carolina Slate Belt Geologic Unit.

The groundwater level measurements taken on October 2, 2014, were used to construct the groundwater surface contours shown in Drawing 1. Historical static water levels are provided in Table 1. Groundwater flow at the site is to the southwest.

Using the hydraulic gradients along the flow paths shown on Drawing 1, the linear flow velocity (**V**) was estimated using the modified Darcy equation: **V=Ki/n**. The average hydraulic gradient (**i**) based on the flow paths shown on Drawing 1 is 0.09 ft/ft. An effective porosity (**n**) of 30% was estimated based on typical values for piedmont aquifers. Hydraulic conductivity (**K**) of 1.73 ft/day was estimated from slug testing done by JOYCE at nearby site is Kernersville, NC in November of 2013. The calculated groundwater flow rate averages approximately 188.5 ft/year. A summary of the hydraulic gradients and linear flow velocities is provided in Table 2.

1.3 Regulatory Status

The OmniSource Landfill is currently monitoring groundwater in accordance with criteria set forth in Title 15A Subchapter 13B .0500 of the North Carolina Solid Waste Management Rules (NCSWMR) as well as, the approved sampling and analysis plan dated October 2011.

2.0 FACILITY MONITORING PROGRAM

2.1 Groundwater Monitoring Program

The original groundwater monitoring network consisted of 4 monitoring wells installed in 1989; MW-1, MW-2, MW-3 and MW-4. In 2001, MW-4D was installed to replace MW-4 and MW-1R replaced MW-1 to further expanding scrap metal processing activities. Monitoring wells MW-2, MW-3, MW-4, and MW-4R were destroyed during mining operations. Replacement wells MW-12, MW-13, and MW-14 were installed in 2012.

The current groundwater compliance monitoring network consists of four monitoring wells, including one upgradient well (MW-1R) and three downgradient wells (MW-12, MW-13, and MW-14). These wells are summarized below, along with their current monitoring program status. The locations of the monitoring wells are shown on Drawing No. 1.

Monitoring Well	Classification	Monitoring Program	Total Depth from TOC (ft)
MW-1R	Upgradient	Detection	104.73
MW-12	Downgradient	Detection	28.82
MW-13	Downgradient	Detection	26.15
MW-14	Downgradient	Detection	33.68

*TOC = Top of casing.

Groundwater samples are collected semiannually during the second and fourth quarters. Samples are analyzed for all constituents listed in the NCSWMR Appendix I during the first and second semiannual events.

2.2 Surface Water Monitoring Program

Surface water at the OmniSource Kernersville Landfill is monitored semiannually in conjunction with the groundwater sampling events. Samples are collected from two surface water monitoring points (SW-1 and SW-2). The locations of the surface water monitoring points are shown on Drawing 1.

Surface water samples are collected and analyzed for the NCSWMR Appendix I list of constituents during both semiannual monitoring events. The results are compared to the 15A NCAC 2B (NC 2B) Surface Water Standards in a value-to-value comparison. These surface

water monitoring points are summarized below, along with their current monitoring program status.

Surface Point	Classification	Monitoring Program
SW-1	Upstream/Compliance	Surface Water
SW-2	Compliance	Surface Water

3.0 SECOND SEMIANNUAL SAMPLING EVENT OF 2014

3.1 Field Work and Visual Inspection

In order to detect potential releases of leachate in a timely manner, a visual inspection program has been implemented at the OmniSource Kernersville Landfill. This inspection program involves field personnel making the following observations:

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

On October 2, 2014, Joyce Engineering (JOYCE) personnel visited the facility to purge and sample the facility's monitoring wells MW-1R, MW-12, MW-13, and MW-14. Prior to purging, the depth to static water level was measured for all monitoring wells with an electronic water level indicator, accurate to 0.01 foot.

Monitoring wells were purged and sampled, in accordance with the October 2011 *Sampling & Analysis Plan*, using either a 12-volt submersible pump or disposable bailer. Measurements of temperature, pH, specific conductivity, and turbidity were recorded in the site log book prior to purging, after each purge volume, and during sampling. Prior to sampling, laboratory-supplied containers were prepared with the following information:

- Monitoring well number (completed by field personnel);
- Date and time of sample collection (completed by field personnel);
- Initials of sampling personnel (completed by field personnel);
- Project name and number (completed by the laboratory);
- Chemical preservative (completed by the laboratory); and
- Requested chemical analysis (completed by the laboratory).

Groundwater samples from each monitoring well were collected directly from the 12-volt pump or disposable bailers in the provided laboratory containers either immediately after purging or within 24 hours of the final purge volume. Immediately after collection, the samples were placed in a laboratory-provided cooler and chilled on ice. Field data logs are provided in the Appendix to this report.

Surface water point SW-1 was dry and could not be sampled during the October 2014 sampling event. A surface water sample from SW-2 was collected directly from stream flow by lowering the prepared sample containers into the stream flow. Care was taken to not overflow the sample containers (which could lead to preservative loss) and to avoid sample-induced turbidity. At the time of sampling, surface water was also measured for temperature, pH, specific conductivity, and turbidity. After sample collection, the sampled were placed in a laboratory-provided cooler and chilled on ice. Field data logs are provided in the Appendix.

Due to a suspect detection of cobalt in MW-13, a verification sampling event was conducted November 19, 2014.

3.2 Laboratory Analysis and Quality Control

The October 2, 2014, groundwater and surface water samples were submitted to Pace Analytical Services, Inc. of Huntersville, North Carolina under chain-of-custody control for analysis. As presented earlier, the groundwater samples were analyzed for the NCSWMR Appendix I constituents. JOYCE requested a Level II data report for the final laboratory report. The samples were received by the laboratory on October 3, 2014, in good condition, properly preserved, and within analysis hold times.

In addition to samples collected for compliance monitoring at the OmniSource Kernersville Landfill, a Field Blank was collected by JOYCE personnel as part of the October 2014 sampling event. Also, a Trip Blank was prepared by the laboratory to accompany the volatile sampling containers during shipment to and from the laboratory. The October 2014 Field Blank was analyzed for the NCSWMR Appendix I constituents while the October 2014 Trip Blank was analyzed for the NCSWMR Appendix I volatile organics only.

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

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

After receipt of the October 2014 data packages, it was determined that MW-13 would require verification sampling. MW-13 was resampled for cobalt, due to the detection above the GWPS.

4.0 DATA ANALYSIS

4.1 Groundwater Data Analysis and Comparisons to Standards

Results from the October 2014 sampling and November 2014 resampling event were received October 15, 2014, and November 24, 2014, respectively from Pace and are found in the Appendix. Analytical results from monitoring wells were compared directly to the North Carolina Groundwater Standards (NC 2L) or Groundwater Protection Standards (GWPS).

The following constituents were detected at quantified concentrations above the North Carolina Department of Environment and Natural Resources (DENR) Solid Waste Section Limits (SWSL) in groundwater during the October 2014 sampling event.

Constituent	NC 2L/ (GWPS)	Background	Downgradient			Blanks
		MW-1R	MW-12	MW-13	MW-14	
Antimony	(1)	**6.5**	ND	ND	ND	ND
Barium	700	15.5 J	195	43.5 J	106	ND
Beryllium	4	ND	ND	1.2	1.4	ND
Cobalt	(1)	ND	ND	**10.4** (5.8 J)	5.2 J	ND

NC 2L = Groundwater Protection Standard established under 15A NCAC 2L.0202.
GWPS = Groundwater protection standard established by the DENR-SWS.
All concentrations are reported in micrograms per liter (µg/L).
ND = Not detected. J= Estimated (below the SWSL).
November 19, 2014 resample results are in ( )

Antimony was detected above the GWPS in MW-1R. MW-1R serves as the site's upgradient background well; therefore, the detection of antimony is not considered to be a Groundwater Protection Standard (GPS) exceedance because it is not above background in accordance with rule .1634.g.5. Cobalt was initially detected above its GWPS in MW-13 during the October 2014 sampling event. The resampling event performed on November 19, 2014 indicated an estimated concentration below the SWSL, which is not considered an exceedance; therefore, it did not confirm the detection above the GWPS.

In general, the organic and inorganic results are consistent with historical data. Historical groundwater data can be found in Table 3. All data prior to the April 24, 2014, sampling event was provided by W.Z. Bumgartner & Associates. The laboratory analytical reports, the laboratory quality/assurance/quality control information, and the chains-of-custody are included in the Appendix.

4.2 Surface Water Data Analysis and Comparisons to Standards

Surface water point SW-1 was dry and could not be sampled during the October 2014 sampling event. Zinc was the only constituent detected in SW-2 at a quantified concentration (above the SWSL) during the October 2014 sampling event; however, it was not detected above the surface water standards established under 15 NCAC 2B. In general, the results are consistent with

historical data. Historical surface water data can be found in Table 4. All data prior to the April 24, 2014, sampling event was provided by W.Z. Bumgartner & Associates. The laboratory analytical reports, the laboratory quality/assurance/quality control information, and the chains-of-custody are included in the Appendix.

5.0 CONCLUSIONS

Based on historical groundwater and surface water data, the inorganic and organic constituents detected in the samples collected during the October 2014 sampling and November 2014 resampling event are consistent with previous events. There were no constituents detected above their NC 2L, GWPS, or NC 2B Standards during the October 2014 sampling and November 2014 resampling event. The OmniSource Kernersville Landfill will remain in Detection Monitoring as outlined in Title 15A NCAC 13B .0500 and the next scheduled semiannual sampling event is tentatively scheduled for April 2015.

6.0 REFERENCES

Brown, Philip M., Chief Geologist, 1985, *Geologic Map of North Carolina*, The North Carolina Geologic Survey, scale 1:500,000.

Fetter, C.W., 2001, *Applied Hydrogeology*, Fourth Edition: Prentice-Hall, Inc..

Johnson, A.I., 1967, *Specific Yield - Compilation of Specific Yields For Various Materials:* U.S. Geological Survey Water Supply Paper 1662-D.

Joyce Engineering, Inc. 2014. *2014 Operations Plan, OmniSource – Kernersville Landfill Reclamation Project.* May 2014.

North Carolina Department of Environment and Natural Resources, 1990-2012, *Solid Waste Management Regulations*.

USEPA, 1986, *RCRA Ground Water Monitoring Technical Enforcement Guidance Document* (TEGD).

USEPA, 1992, *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Addendum to Interim Final Guidance*, Chapter 2, July.

W.Z Baumgartner & Associates, Inc. 2011. *Sampling & Analysis Plan For Groundwater Monitoring, OmniSource Southeast Industriall Landfill.* October 2011.

W.Z Baumgartner & Associates, Inc. 2013. *Groundwater Monitoirng Report, April 10, 2013 Sampling Event, OmniSource Southeast Landfill, Permit: 3417-TP. May 2014.*

Tables

TABLE 1:
HISTORICAL GROUNDWATER ELEVATION DATA

	Background	Downgradient		
	MW-1R	**MW-12**	**MW-13**	**MW-14**
Well TOC Elev.:	988.67	855.85	838.45	847.45
Well Total Depth:	104.73	28.82	26.15	33.68
10-Apr-13	952.17	847.73	832.84	835.05
11-Sep-13	949.72	847.69	832.55	834.20
24-Apr-14	953.02	847.60	833.12	834.96
02-Oct-14	949.11	847.80	832.76	834.22

Notes:
TOC = top of casing.
Water levels are measured from TOC.
All elevations relative to mean sea level.

TABLE 2:
GROUNDWATER GRADIENTS AND CALCULATED FLOW RATES

			October 2014				
GRADIENT CALCULATION SEGMENT	FLOW LINE LENGTH (feet)	FLOW DIRECTION	GROUND-WATER ELEVATION (feet)	HORIZ. GRADIENT, **i** (ft/ft)	HYDRAULIC CONDUCTIVITY, **K** (ft/day)	EFFECTIVE POROSITY **n**	LINEAR VELOCITY, **V** (ft/year)
i_1	707	NE	940 880	0.0849	1.73E+00	0.30	178.8
i_2	850	NE	940 860	0.0941	1.73E+00	0.30	198.2
			Average:	0.0895		Average:	188.5

Notes:

Linear flow velocity is caculated by: **V = Ki/n**

Hydraulic conductivity (**K**) value based on slug tests at another site locaed approxiamtely 10 miles from the facility in a simialr geologic seting.

Effective porosity (**n**) is estimated at 30% (0.30), which is typical for saprolite aquifiers in the North Carolina Piedmont.

Refer to Drawling 1 for gradient calculation segments.

TABLE 3:
HISTORICAL DETECTED GROUND WATER CONSTITUENTS

Analyte	Sample Collection Date	DL	QL	MW-1R	MW-12	MW-13	MW-14	Blanks
Inorganic Compounds								
Antimony	12-Apr-12	---	---	ND	ND	ND	ND	---
	10-Oct-12	---	---	7.70	ND	ND	ND	---
GWPS = 1 µg/L (10/01/10)	10-Apr-13	---	---	ND	ND	ND	ND	---
	11-Sep-13	---	---	ND	ND	ND	ND	---
	24-Apr-14	5.0	6.0	ND	ND	ND	ND	ND
	2-Oct-14	5.0	6.0	6.5	ND	ND	ND	ND
Arsenic	12-Apr-12	---	---	ND	ND	ND	ND	---
	10-Oct-12	---	---	10.7	ND	3.40	ND	---
NC 2L = 100 µg/L (1/01/10)	10-Apr-13	---	---	ND	ND	ND	ND	---
	11-Sep-13	---	---	ND	ND	ND	ND	---
	24-Apr-14	5.0	10.0	ND	ND	ND	ND	ND
	2-Oct-14	5.0	10.0	ND	ND	ND	ND	ND
Barium	12-Apr-12	---	---	41.5	166	41.0	118	---
	10-Oct-12	---	---	37.6	170	26.9	107	---
NC 2L = 700 µg/L (1/01/10)	10-Apr-13	---	---	26.9	166	27.5	98.2	---
	11-Sep-13	---	---	39.4	196	29.8	100	---
	24-Apr-14	5.0	100	21.2 J	184	39.3 J	88.8 J	ND
	2-Oct-14	5.0	100	15.5 J	195	43.5 J	106	ND
Beryllium	12-Apr-12	---	---	ND	ND	ND	ND	---
	10-Oct-12	---	---	ND	ND	ND	1.10	---
GWPS = 4 µg/L (10/23/07)	10-Apr-13	---	---	ND	ND	ND	1.10	---
	11-Sep-13	---	---	ND	ND	ND	0.800	---
	24-Apr-14	1.0	1.0	ND	ND	ND	1.1	ND
	2-Oct-14	1.0	1.0	ND	ND	1.2	1.4	ND
Chromium	12-Apr-12	---	---	ND	ND	ND	ND	---
	10-Oct-12	---	---	2.50	ND	ND	ND	---
NC2B= 50 µg/L (05/01/07)	10-Apr-13	---	---	2.30	ND	ND	ND	---
	11-Sep-13	---	---	1.80	ND	ND	ND	---
	24-Apr-14	5.0	10.0	ND	ND	ND	ND	ND
	2-Oct-14	5.0	10.0	ND	ND	ND	ND	ND
Cobalt	12-Apr-12	---	---	ND	ND	ND	ND	---
	10-Oct-12	---	---	0.700	**3.10**	**3.90**	**5.70**	---
GWPS = 1 µg/L (10/01/10)	10-Apr-13	---	---	ND	**1.90**	**2.80**	**3.80**	---
	11-Sep-13	---	---	ND	**2.60**	**4.10**	ND	---
	24-Apr-14	5.0	10.0	ND	ND	5.5 J	ND	ND
	2-Oct-14	5.0	10.0	ND	ND	**10.4**	5.2 J	ND

TABLE 3:
HISTORICAL DETECTED GROUND WATER CONSTITUENTS

Analyte	Sample Collection Date	DL	QL	MW-1R	MW-12	MW-13	MW-14	Blanks
Copper	12-Apr-12	---	---	ND	ND	ND	ND	---
	10-Oct-12	---	---	ND	ND	ND	ND	---
NC 2L = 1,000 µg/L (10/23/07)	10-Apr-13	---	---	8.8	ND	ND	ND	---
	11-Sep-13	---	---	10.0	ND	ND	ND	---
	24-Apr-14	5.00	10.0	ND	ND	7.5 J	ND	ND
	2-Oct-14	5.00	10.0	ND	ND	8.9 J	ND	ND
Lead	12-Apr-12	---	---	ND	ND	ND	ND	---
	10-Oct-12	---	---	4.9	ND	ND	ND	---
NC 2L = 15 µg/L (10/23/07)	10-Apr-13	---	---	4.2	ND	ND	ND	---
	11-Sep-13	---	---	6.2	ND	ND	ND	---
	24-Apr-14	5.0	10.0	ND	ND	ND	ND	ND
	2-Oct-14	5.0	10.0	ND	ND	ND	ND	ND
Nickel	12-Apr-12	---	---	ND	ND	ND	ND	---
	10-Oct-12	---	---	ND	2.30	ND	2.00	---
NC 2L = 100 µg/L (10/23/07)	10-Apr-13	---	---	ND	2.90	ND	ND	---
	11-Sep-13	---	---	ND	ND	ND	2.20	---
	24-Apr-14	5.0	50.0	ND	ND	ND	ND	ND
	2-Oct-14	5.0	50.0	ND	ND	ND	ND	ND
Selenium	12-Apr-12	---	---	ND	ND	ND	ND	---
	10-Oct-12	---	---	ND	ND	ND	ND	---
NC 2L = 20 µg/L (1/01/10)	10-Apr-13	---	---	ND	ND	ND	4.90	---
	11-Sep-13	---	---	ND	ND	ND	ND	---
	24-Apr-14	10.0	10.0	ND	ND	ND	ND	ND
	2-Oct-14	10.0	10.0	ND	ND	ND	ND	ND
Vanadium	12-Apr-12	---	---	ND	ND	ND	ND	---
	10-Oct-12	---	---	ND	ND	ND	ND	---
GWPS = 0.3 µg/L (10/01/10)	10-Apr-13	---	---	ND	ND	ND	ND	---
	11-Sep-13	---	---	ND	ND	ND	ND	---
	24-Apr-14	5.00	25.0	ND	ND	9.2 J	ND	ND
	2-Oct-14	5.00	25.0	ND	5.0 J	20.1 J	ND	ND
Zinc	12-Apr-12	---	---	ND	ND	ND	ND	---
	10-Oct-12	---	---	27.3	ND	ND	ND	---
NC 2L = 1,000 µg/L (1/01/10)	10-Apr-13	---	---	ND	ND	ND	ND	---
	11-Sep-13	---	---	29.4	ND	ND	ND	---
	24-Apr-14	10.0	10.0	ND	15.3	ND	ND	ND
	2-Oct-14	10.0	10.0	ND	ND	ND	ND	ND
Organic Compounds								
Acetone	12-Apr-12	---	---	ND	ND	ND	ND	---
	10-Oct-12	---	---	12	20.9	ND	ND	---
NC 2L = 6,000 µg/L (1/01/10)	10-Apr-13	---	---	ND	ND	ND	ND	---
	11-Sep-13	---	---	ND	ND	ND	ND	---
	24-Apr-14	10.0	100	ND	ND	ND	ND	ND
	2-Oct-14	10.0	100	ND	ND	ND	ND	ND

TABLE 3:
HISTORICAL DETECTED GROUND WATER CONSTITUENTS

Analyte	Sample Collection Date	DL	QL	MW-1R	MW-12	MW-13	MW-14	Blanks
Benzene	12-Apr-12	---	---	ND	ND	ND	ND	---
	10-Oct-12	---	---	ND	0.406	0.280	ND	---
NC 2L = 1 µg/L (10/23/07)	10-Apr-13	---	---	ND	0.365	ND	ND	---
	11-Sep-13	---	---	ND	0.411	0.203	ND	---
	24-Apr-14	0.25	1.0	ND	0.350 J	ND	ND	ND
	2-Oct-14	0.25	1.0	ND	ND	ND	ND	ND
Carbon disulfide	12-Apr-12	---	---	ND	ND	ND	ND	---
	10-Oct-12	---	---	ND	ND	ND	1.9	---
NC 2L = 700 µg/L (10/23/07)	10-Apr-13	---	---	ND	ND	ND	ND	---
	11-Sep-13	---	---	ND	ND	ND	ND	---
	24-Apr-14	1.2	100	ND	ND	ND	ND	ND
	2-Oct-14	1.2	100	ND	ND	ND	ND	ND
Cis-1,2-Dichloroethene	12-Apr-12	---	---	ND	ND	ND	ND	---
	10-Oct-12	---	---	ND	ND	ND	ND	---
NC 2L = 70 µg/L (10/23/07)	10-Apr-13	---	---	ND	ND	ND	ND	---
	11-Sep-13	---	---	ND	ND	ND	ND	---
	24-Apr-14	0.19	5.0	ND	0.200 J	ND	ND	ND
	2-Oct-14	0.19	5.0	ND	ND	ND	ND	ND
Styrene	12-Apr-12	---	---	ND	ND	ND	ND	---
	10-Oct-12	---	---	ND	ND	ND	ND	---
NC 2L = 70 µg/L (10/23/07)	10-Apr-13	---	---	0.515	ND	ND	ND	---
	11-Sep-13	---	---	ND	ND	ND	ND	---
	24-Apr-14	0.26	1.0	ND	ND	ND	ND	ND
	2-Oct-14	0.26	1.0	ND	ND	ND	ND	ND
Tetrachloroethene	12-Apr-12	---	---	ND	ND	ND	ND	---
	10-Oct-12	---	---	ND	0.319	ND	ND	---
NC 2L = 0.7 µg/L (10/23/07)	10-Apr-13	---	---	ND	0.525	ND	ND	---
	11-Sep-13	---	---	ND	ND	ND	ND	---
	24-Apr-14	0.46	1.0	ND	ND	ND	ND	ND
	2-Oct-14	0.46	1.0	ND	ND	ND	ND	ND

Notes:

All concentrations are in micrograms per liter (µg/L).
NC 2L = North Carolina Groundwater Standards established under 15A NCAC 2L.0202.
GWPS = Groundwater Protection Standards established by the DENR-SWS for constituents with ne NC 2L standard.
RL = Laboratory reporting limit (NC SWSL or lower).
DL = Laboratory detection limit.
J = Estimated value between the DL and the SWSL.
B = Blank-qualified data; result is expected to be biased high based on concentrations in the blanks.
ND = Not detected above the DL.
--- = Data not available.
Data prior to May 2014 provided by W.Z. Baumgartner & Associates, Inc.
Bold values are above the NC 2L Standards or GWPS.

TABLE 4:
HISTORICAL DETECTED SURFACE WATER CONSTITUENTS

Analyte	Sample Collection Date	DL	RL	SW-1	SW-2	Blanks
Inorganic Compounds						
Arsenic	12-Apr-12	---	---	ND	ND	---
	10-Oct-12	---	---	ND	**69.0**	---
NC 2B = 10 µg/L	10-Apr-13	---	---	**44.3**	ND	---
	11-Sep-13	---	---	ND	ND	---
	24-Apr-14	5.0	10.0	Dry	ND	ND
	2-Oct-14	5.0	10.0	Dry	ND	ND
Barium	12-Apr-12	---	---	52.4	79.1	---
	10-Oct-12	---	---	52.6	87.4	---
NC 2B = 200,000 µg/L	10-Apr-13	---	---	44.3	84.2	---
	11-Sep-13	---	---	52.7	99.3	---
	24-Apr-14	5.0	100	Dry	79.6 J	ND
	2-Oct-14	5.0	100	Dry	79.9 J	ND
Beryllium	12-Apr-12	---	---	ND	ND	---
	10-Oct-12	---	---	ND	ND	---
NC 2B = 6.5 µg/L	10-Apr-13	---	---	ND	ND	---
	11-Sep-13	---	---	ND	ND	---
	24-Apr-14	1.0	1.0	Dry	ND	ND
	2-Oct-14	1.0	1.0	Dry	ND	ND
Chromium	12-Apr-12	---	---	ND	ND	---
	10-Oct-12	---	---	ND	ND	---
NC 2B = 50 µg/L	10-Apr-13	---	---	1.6	2.1	---
	11-Sep-13	---	---	ND	ND	---
	24-Apr-14	5.0	10.0	Dry	ND	ND
	2-Oct-14	5.0	10.0	Dry	ND	ND
Cobalt	12-Apr-12	---	---	ND	ND	---
	10-Oct-12	---	---	ND	1.0	---
NC 2B = 4 µg/L	10-Apr-13	---	---	ND	ND	---
	11-Sep-13	---	---	ND	ND	---
	24-Apr-14	5.0	10.0	Dry	ND	ND
	2-Oct-14	5.0	10.0	Dry	ND	ND
Copper	12-Apr-12	---	---	ND	ND	---
	10-Oct-12	---	---	**11.8**	**13.5**	---
NC 2B = 7 µg/L	10-Apr-13	---	---	ND	ND	---
	11-Sep-13	---	---	ND	ND	---
	24-Apr-14	5.00	10.0	Dry	6.8 J	ND
	2-Oct-14	5.00	10.0	Dry	ND	ND
Nickel	12-Apr-12	---	---	ND	ND	---
	10-Oct-12	---	---	ND	7.6	---
NC 2B = 88 µg/L	10-Apr-13	---	---	ND	5.1	---
	11-Sep-13	---	---	ND	4.5	---
	24-Apr-14	5.0	50.0	Dry	6.7 J	ND
	2-Oct-14	5.0	50.0	Dry	ND	ND

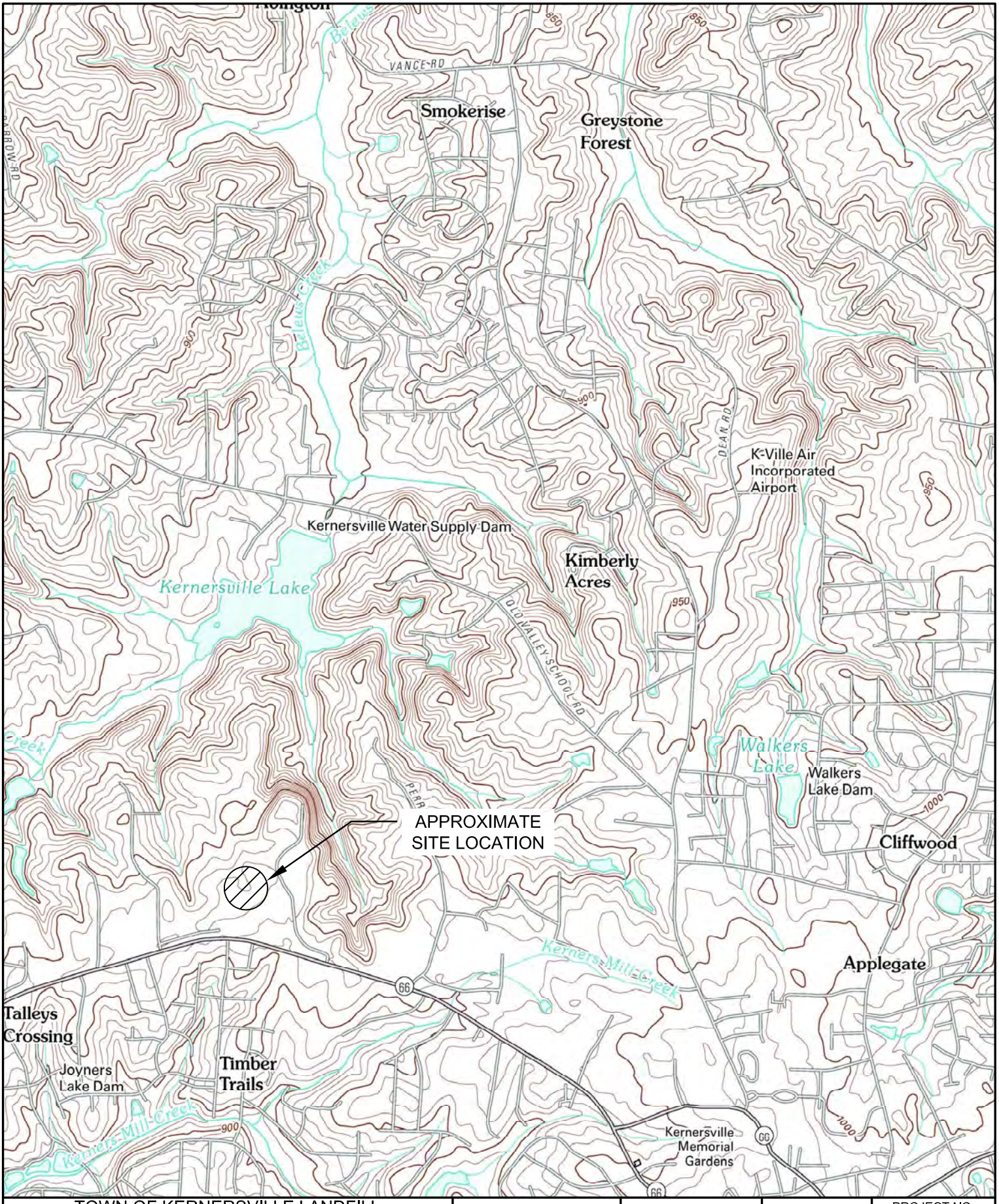
TABLE 4:
HISTORICAL DETECTED SURFACE WATER CONSTITUENTS

Analyte	Sample Collection Date	DL	RL	SW-1	SW-2	Blanks
Zinc	12-Apr-12	---	---	ND	ND	---
	10-Oct-12	---	---	0.051	24.2	---
NC 2B = 50 µg/L	10-Apr-13	---	---	ND	29.4	---
	11-Sep-13	---	---	0.169	23.2	---
	24-Apr-14	10.0	10.0	Dry	27.7	ND
	2-Oct-14	10.0	10.0	Dry	10.6	ND
Organic Compounds						
Acetone	12-Apr-12	---	---	ND	ND	---
	10-Oct-12	---	---	ND	2.88	---
NC 2B = 2000 µg/L	10-Apr-13	---	---	ND	8.34	---
	11-Sep-13	---	---	ND	ND	---
	24-Apr-14	10.0	100.0	Dry	ND	ND
	2-Oct-14	10.0	100.0	Dry	ND	ND
Benzene	12-Apr-12	---	---	ND	ND	---
	10-Oct-12	---	---	ND	0.509	---
NC 2B = 51 µg/L	10-Apr-13	---	---	ND	0.369	---
	11-Sep-13	---	---	ND	0.481	---
	24-Apr-14	1.2	100.0	Dry	0.31 J	ND
	2-Oct-14	0.3	1.0	Dry	ND	ND
Toluene	12-Apr-12	---	---	ND	ND	---
	10-Oct-12	---	---	ND	0.257	---
NC 2B = 11 µg/L	10-Apr-13	---	---	ND	ND	---
	11-Sep-13	---	---	ND	ND	---
	24-Apr-14	0.26	1.0	Dry	ND	ND
	2-Oct-14	0.26	1.0	Dry	ND	ND

Notes:
All concentrations are in micrograms per liter (µg/L).
NC 2B= North Carolina Surface Water Standards established under 15A NCAC 2B
(NC 2B shown is the lowest of "Fresh Water Aquatic Life" or "Human Health" standard.)
RL = Laboratory reporting limit (NC SWSL or lower).
DL = Laboratory detection limit.
J = Estimated value between the DL and the SWSL.
B = Blank-qualified data; result is expected to be biased high based on concentrations in the blanks.
ND = Not detected above the DL.
--- = Data not available.
Data prior to May 2014 provided by W.Z. Baumgartner & Associates, Inc.
Bold values exceed the NC 2B standard.

Figure

Figure 1 Site Location Map



TOWN OF KERNERSVILLE LANDFILL
FORSYTH COUNTY, NORTH CAROLINA

SITE LOCATION MAP

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

DESIGNED RWH
DRAWN RWH
CHECKED ALF
APPROVED ALF
DATE 07/29/14

SCALE
AS SHOWN

NC CORP LIC: C-0782

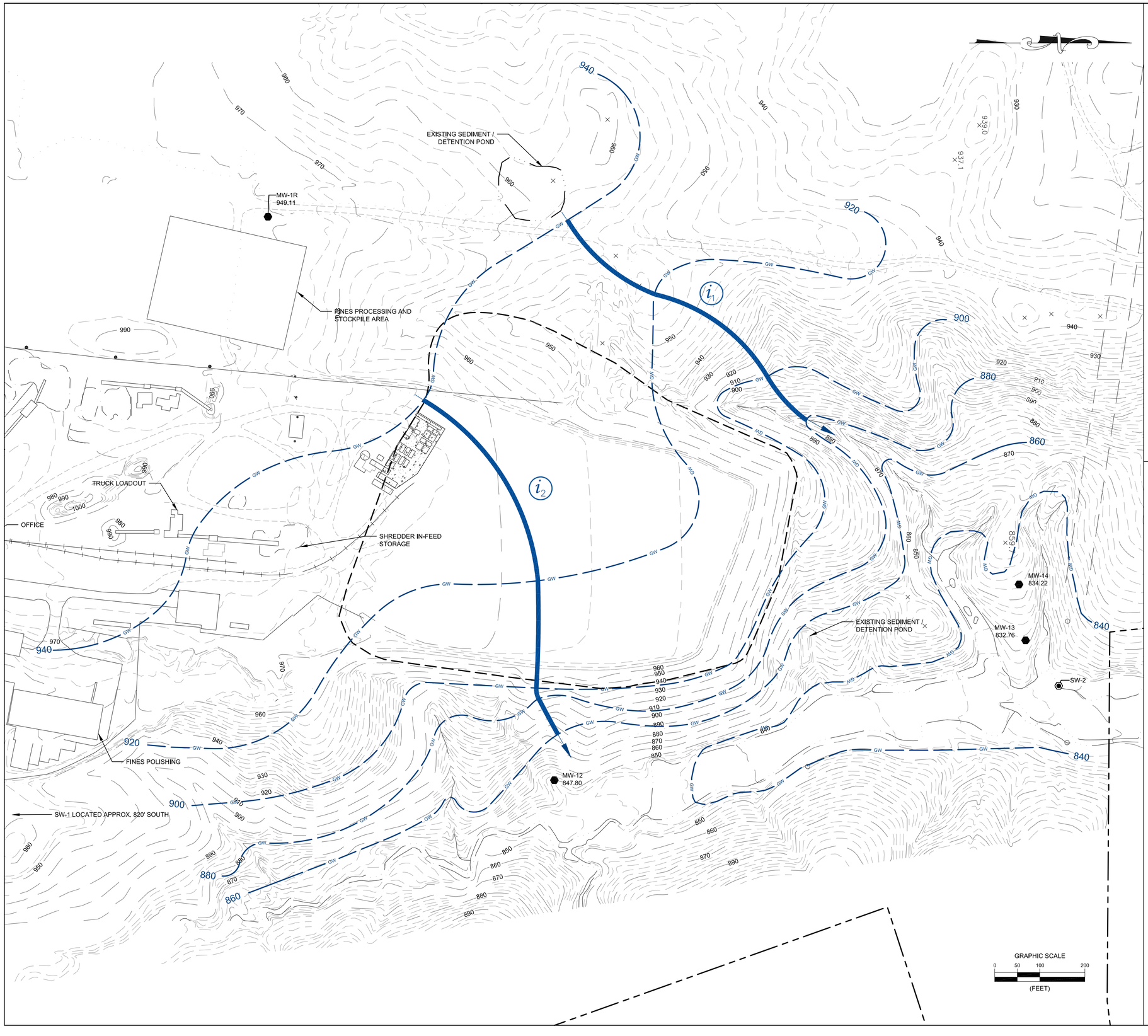
PROJECT NO.
799

FIGURE NO.
1

L:\OMNI SOURCE\KERNERSVILLE\GW EVENT MAP_ SITE LOCATION MAP.dwg

Drawing

Drawing 1 Potentiometric Surface Contour Map



LEGEND

- PROPERTY LINE
- 710 — EXISTING 10' TOPOGRAPHIC CONTOUR
- EXISTING 2' TOPOGRAPHIC CONTOUR
- EXISTING ROAD
- 1280 — GROUNDWATER SURFACE CONTOUR [FEET ABOVE MEAN SEA LEVEL (AMSL)]
- GROUNDWATER FLOW DIRECTION
- TREE LINE
- MW-12 847.60 — GROUNDWATER MONITORING WELL LOCATION AND IDENTIFICATION WITH STATIC WATER LEVEL ELEVATION (FEET AMSL)
- SW-2 — SURFACE MONITORING POINT LOCATION AND IDENTIFICATION
- i_1 — SEGMENT USED FOR GRADIENT CALCULATION

FLOW PATH LENGTH

- i_1 = 707 LF
- i_2 = 850 LF

NOTES

1. TOPOGRAPHIC CONTOUR INTERVAL = 2 FEET
2. GROUNDWATER CONTOUR INTERVAL = 20 FEET
3. STATIC WATER LEVELS WERE MEASURED ON 10/02/14.
4. GROUNDWATER CONTOURS BASED ON LINEAR INTERPOLATION BETWEEN AND EXTRAPOLATION FROM KNOWN DATA, TOPOGRAPHIC CONTOURS, AND KNOWN FIELD CONDITIONS. THEREFORE, GROUNDWATER CONTOURS MAY NOT REFLECT ACTUAL GROUNDWATER CONDITIONS.

NO	BY	CK	APP	DATE	REVISIONS AND RECORD OF ISSUE

DESIGNED AE
DRAWN RWH
CHECKED VB
APPROVED AE
DATE 11/06/14

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

OMNISOURCE SOUTHEAST - KERNERSVILLE SITE
KERNERSVILLE, NORTH CAROLINA

GROUNDWATER CONTOUR MAP
OCTOBER 2, 2104

PROJECT NO.
799

SCALE
AS SHOWN

DRAWING NO.
1

L:\OMNI SOURCE\KERNERSVILLE\GW EVENT MAP\GW EVENT OCTOBER 2014.dwg LayoutLayout1

Appendix

Laboratory Analytical Report
and Field Data Logs

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

October 15, 2014

Mr. Alex Everhart
Joyce Engineering-NC
2211 W. Meadowview Road
Suite 101
Greensboro, NC 27407

RE: Project: OMNISOURCE/KERNERSVILLE LF
Pace Project No.: 92219968

Dear Mr. Everhart:
Enclosed are the analytical results for sample(s) received by the laboratory on October 03, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kevin Godwin
kevin.godwin@pacelabs.com
Project Manager

Enclosures

cc: Mr. Van Burbach, Joyce Engineering-NC
Alex Everhart, Joyce Engineering-NC

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: OMNISOURCE/KERNERSVILLE LF
Pace Project No.: 92219968

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

Asheville Certification IDs
2225 Riverside Dr., Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: OMNISOURCE/KERNERSVILLE LF
Pace Project No.: 92219968

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92219968001	**3420-MW1R**	Water	10/02/14 12:35	10/03/14 14:50
92219968002	**3420-MW12**	Water	10/02/14 13:04	10/03/14 14:50
92219968003	**3420-MW13**	Water	10/02/14 12:20	10/03/14 14:50
92219968004	**3420-MW14**	Water	10/02/14 11:50	10/03/14 14:50
92219968005	**3420-SW2**	Water	10/02/14 12:10	10/03/14 14:50
92219968006	**3420-FIELD BLANK**	Water	10/02/14 13:15	10/03/14 14:50
92219968007	**3420-TRIP BLANK**	Water	10/02/14 08:00	10/03/14 14:50

Pace Analytical Services, Inc.
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SAMPLE ANALYTE COUNT

Project: OMNISOURCE/KERNERSVILLE LF
Pace Project No.: 92219968

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92219968001	**3420-MW1R**	EPA 6010	JMW	15	PASI-A
		EPA 8260	GAW	50	PASI-C
92219968002	**3420-MW12**	EPA 6010	JMW	15	PASI-A
		EPA 8260	GAW	50	PASI-C
92219968003	**3420-MW13**	EPA 6010	JMW	15	PASI-A
		EPA 8260	GAW	50	PASI-C
92219968004	**3420-MW14**	EPA 6010	JMW	15	PASI-A
		EPA 8260	GAW	50	PASI-C
92219968005	**3420-SW2**	EPA 6010	JMW	15	PASI-A
		EPA 8260	GAW	50	PASI-C
92219968006	**3420-FIELD BLANK**	EPA 6010	JMW	15	PASI-A
		EPA 8260	GAW	50	PASI-C
92219968007	**3420-TRIP BLANK**	EPA 8260	GAW	50	PASI-C

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: OMNISOURCE/KERNERSVILLE LF
Pace Project No.: 92219968

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92219968001	**3420-MW1R**					
EPA 6010	Antimony	6.5	ug/L	6.0	10/13/14 19:24	
EPA 6010	Barium	15.5J	ug/L	100	10/13/14 19:24	
92219968002	**3420-MW12**					
EPA 6010	Barium	195	ug/L	100	10/13/14 19:35	
EPA 6010	Vanadium	5.0J	ug/L	25.0	10/13/14 19:35	
92219968003	**3420-MW13**					
EPA 6010	Barium	43.5J	ug/L	100	10/13/14 19:38	
EPA 6010	Beryllium	1.2	ug/L	1.0	10/13/14 19:38	
EPA 6010	Cobalt	10.4	ug/L	10.0	10/13/14 19:38	
EPA 6010	Copper	8.9J	ug/L	10.0	10/13/14 19:38	
EPA 6010	Vanadium	20.1J	ug/L	25.0	10/13/14 19:38	
92219968004	**3420-MW14**					
EPA 6010	Barium	106	ug/L	100	10/13/14 19:42	
EPA 6010	Beryllium	1.4	ug/L	1.0	10/13/14 19:42	
EPA 6010	Cobalt	5.2J	ug/L	10.0	10/13/14 19:42	
92219968005	**3420-SW2**					
EPA 6010	Barium	79.9J	ug/L	100	10/13/14 19:45	
EPA 6010	Zinc	10.6	ug/L	10.0	10/13/14 19:45	
92219968006	**3420-FIELD BLANK**					
EPA 8260	Methylene Chloride	2.2	ug/L	1.0	10/07/14 01:41	

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
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(704)875-9092

ANALYTICAL RESULTS

Project: OMNISOURCE/KERNERSVILLE LF
Pace Project No.: 92219968

Sample: 3420-MW1R **Lab ID: 92219968001** Collected: 10/02/14 12:35 Received: 10/03/14 14:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	**6.5**	ug/L	6.0	5.0	1	10/08/14 21:15	10/13/14 19:24	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	10/08/14 21:15	10/13/14 19:24	7440-38-2	
Barium	**15.5J**	ug/L	100	5.0	1	10/08/14 21:15	10/13/14 19:24	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	10/08/14 21:15	10/13/14 19:24	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	10/08/14 21:15	10/13/14 19:24	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	10/08/14 21:15	10/13/14 19:24	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	10/08/14 21:15	10/13/14 19:24	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	10/08/14 21:15	10/13/14 19:24	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	10/08/14 21:15	10/13/14 19:24	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	10/08/14 21:15	10/13/14 19:24	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	10/08/14 21:15	10/13/14 19:24	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	10/08/14 21:15	10/13/14 19:24	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	10/08/14 21:15	10/13/14 19:24	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	10/08/14 21:15	10/13/14 19:24	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	10/08/14 21:15	10/13/14 19:24	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		10/08/14 07:16	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		10/08/14 07:16	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		10/08/14 07:16	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		10/08/14 07:16	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/08/14 07:16	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		10/08/14 07:16	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		10/08/14 07:16	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		10/08/14 07:16	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		10/08/14 07:16	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/08/14 07:16	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		10/08/14 07:16	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		10/08/14 07:16	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		10/08/14 07:16	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/08/14 07:16	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.0	1		10/08/14 07:16	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		10/08/14 07:16	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/08/14 07:16	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		10/08/14 07:16	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		10/08/14 07:16	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/08/14 07:16	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		10/08/14 07:16	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		10/08/14 07:16	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/08/14 07:16	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		10/08/14 07:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		10/08/14 07:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		10/08/14 07:16	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/08/14 07:16	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/08/14 07:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/08/14 07:16	10061-02-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: OMNISOURCE/KERNERSVILLE LF
Pace Project No.: 92219968

Sample: 3420-MW1R **Lab ID: 92219968001** Collected: 10/02/14 12:35 Received: 10/03/14 14:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/08/14 07:16	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		10/08/14 07:16	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		10/08/14 07:16	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		10/08/14 07:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		10/08/14 07:16	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		10/08/14 07:16	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		10/08/14 07:16	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		10/08/14 07:16	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/08/14 07:16	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/08/14 07:16	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/08/14 07:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/08/14 07:16	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/08/14 07:16	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/08/14 07:16	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/08/14 07:16	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		10/08/14 07:16	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/08/14 07:16	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		10/08/14 07:16	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		10/08/14 07:16	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		10/08/14 07:16	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		10/08/14 07:16	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: OMNISOURCE/KERNERSVILLE LF
Pace Project No.: 92219968

Sample: 3420-MW12 **Lab ID: 92219968002** Collected: 10/02/14 13:04 Received: 10/03/14 14:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	10/08/14 21:15	10/13/14 19:35	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	10/08/14 21:15	10/13/14 19:35	7440-38-2	
Barium	**195**	ug/L	100	5.0	1	10/08/14 21:15	10/13/14 19:35	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	10/08/14 21:15	10/13/14 19:35	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	10/08/14 21:15	10/13/14 19:35	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	10/08/14 21:15	10/13/14 19:35	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	10/08/14 21:15	10/13/14 19:35	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	10/08/14 21:15	10/13/14 19:35	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	10/08/14 21:15	10/13/14 19:35	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	10/08/14 21:15	10/13/14 19:35	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	10/08/14 21:15	10/13/14 19:35	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	10/08/14 21:15	10/13/14 19:35	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	10/08/14 21:15	10/13/14 19:35	7440-28-0	
Vanadium	**5.0J**	ug/L	25.0	5.0	1	10/08/14 21:15	10/13/14 19:35	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	10/08/14 21:15	10/13/14 19:35	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		10/08/14 07:49	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		10/08/14 07:49	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		10/08/14 07:49	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		10/08/14 07:49	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/08/14 07:49	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		10/08/14 07:49	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		10/08/14 07:49	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		10/08/14 07:49	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		10/08/14 07:49	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/08/14 07:49	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		10/08/14 07:49	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		10/08/14 07:49	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		10/08/14 07:49	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/08/14 07:49	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.0	1		10/08/14 07:49	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		10/08/14 07:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/08/14 07:49	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		10/08/14 07:49	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		10/08/14 07:49	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/08/14 07:49	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		10/08/14 07:49	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		10/08/14 07:49	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/08/14 07:49	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		10/08/14 07:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		10/08/14 07:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		10/08/14 07:49	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/08/14 07:49	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/08/14 07:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/08/14 07:49	10061-02-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: OMNISOURCE/KERNERSVILLE LF
Pace Project No.: 92219968

Sample: 3420-MW12 **Lab ID: 92219968002** Collected: 10/02/14 13:04 Received: 10/03/14 14:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/08/14 07:49	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		10/08/14 07:49	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		10/08/14 07:49	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		10/08/14 07:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		10/08/14 07:49	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		10/08/14 07:49	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		10/08/14 07:49	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		10/08/14 07:49	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/08/14 07:49	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/08/14 07:49	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/08/14 07:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/08/14 07:49	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/08/14 07:49	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/08/14 07:49	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/08/14 07:49	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		10/08/14 07:49	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/08/14 07:49	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		10/08/14 07:49	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		10/08/14 07:49	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		10/08/14 07:49	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		10/08/14 07:49	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: OMNISOURCE/KERNERSVILLE LF
Pace Project No.: 92219968

Sample: 3420-MW13 **Lab ID: 92219968003** Collected: 10/02/14 12:20 Received: 10/03/14 14:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	10/08/14 21:15	10/13/14 19:38	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	10/08/14 21:15	10/13/14 19:38	7440-38-2	
Barium	**43.5J**	ug/L	100	5.0	1	10/08/14 21:15	10/13/14 19:38	7440-39-3	
Beryllium	**1.2**	ug/L	1.0	1.0	1	10/08/14 21:15	10/13/14 19:38	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	10/08/14 21:15	10/13/14 19:38	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	10/08/14 21:15	10/13/14 19:38	7440-47-3	
Cobalt	**10.4**	ug/L	10.0	5.0	1	10/08/14 21:15	10/13/14 19:38	7440-48-4	
Copper	**8.9J**	ug/L	10.0	5.0	1	10/08/14 21:15	10/13/14 19:38	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	10/08/14 21:15	10/13/14 19:38	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	10/08/14 21:15	10/13/14 19:38	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	10/08/14 21:15	10/13/14 19:38	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	10/08/14 21:15	10/13/14 19:38	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	10/08/14 21:15	10/13/14 19:38	7440-28-0	
Vanadium	**20.1J**	ug/L	25.0	5.0	1	10/08/14 21:15	10/13/14 19:38	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	10/08/14 21:15	10/13/14 19:38	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		10/08/14 08:05	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		10/08/14 08:05	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		10/08/14 08:05	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		10/08/14 08:05	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/08/14 08:05	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		10/08/14 08:05	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		10/08/14 08:05	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		10/08/14 08:05	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		10/08/14 08:05	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/08/14 08:05	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		10/08/14 08:05	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		10/08/14 08:05	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		10/08/14 08:05	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/08/14 08:05	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.0	1		10/08/14 08:05	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		10/08/14 08:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/08/14 08:05	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		10/08/14 08:05	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		10/08/14 08:05	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/08/14 08:05	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		10/08/14 08:05	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		10/08/14 08:05	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/08/14 08:05	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		10/08/14 08:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		10/08/14 08:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		10/08/14 08:05	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/08/14 08:05	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/08/14 08:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/08/14 08:05	10061-02-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: OMNISOURCE/KERNERSVILLE LF
Pace Project No.: 92219968

Sample: 3420-MW13 **Lab ID: 92219968003** Collected: 10/02/14 12:20 Received: 10/03/14 14:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/08/14 08:05	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		10/08/14 08:05	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		10/08/14 08:05	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		10/08/14 08:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		10/08/14 08:05	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		10/08/14 08:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		10/08/14 08:05	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		10/08/14 08:05	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/08/14 08:05	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/08/14 08:05	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/08/14 08:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/08/14 08:05	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/08/14 08:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/08/14 08:05	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/08/14 08:05	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		10/08/14 08:05	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/08/14 08:05	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		10/08/14 08:05	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		10/08/14 08:05	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		10/08/14 08:05	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		10/08/14 08:05	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
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ANALYTICAL RESULTS

Project: OMNISOURCE/KERNERSVILLE LF
Pace Project No.: 92219968

Sample: 3420-MW14 **Lab ID: 92219968004** Collected: 10/02/14 11:50 Received: 10/03/14 14:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	10/08/14 21:15	10/13/14 19:42	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	10/08/14 21:15	10/13/14 19:42	7440-38-2	
Barium	**106**	ug/L	100	5.0	1	10/08/14 21:15	10/13/14 19:42	7440-39-3	
Beryllium	**1.4**	ug/L	1.0	1.0	1	10/08/14 21:15	10/13/14 19:42	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	10/08/14 21:15	10/13/14 19:42	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	10/08/14 21:15	10/13/14 19:42	7440-47-3	
Cobalt	**5.2J**	ug/L	10.0	5.0	1	10/08/14 21:15	10/13/14 19:42	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	10/08/14 21:15	10/13/14 19:42	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	10/08/14 21:15	10/13/14 19:42	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	10/08/14 21:15	10/13/14 19:42	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	10/08/14 21:15	10/13/14 19:42	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	10/08/14 21:15	10/13/14 19:42	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	10/08/14 21:15	10/13/14 19:42	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	10/08/14 21:15	10/13/14 19:42	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	10/08/14 21:15	10/13/14 19:42	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		10/08/14 08:22	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		10/08/14 08:22	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		10/08/14 08:22	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		10/08/14 08:22	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/08/14 08:22	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		10/08/14 08:22	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		10/08/14 08:22	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		10/08/14 08:22	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		10/08/14 08:22	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/08/14 08:22	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		10/08/14 08:22	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		10/08/14 08:22	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		10/08/14 08:22	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/08/14 08:22	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.0	1		10/08/14 08:22	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		10/08/14 08:22	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/08/14 08:22	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		10/08/14 08:22	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		10/08/14 08:22	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/08/14 08:22	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		10/08/14 08:22	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		10/08/14 08:22	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/08/14 08:22	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		10/08/14 08:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		10/08/14 08:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		10/08/14 08:22	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/08/14 08:22	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/08/14 08:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/08/14 08:22	10061-02-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: OMNISOURCE/KERNERSVILLE LF
Pace Project No.: 92219968

Sample: 3420-MW14 **Lab ID: 92219968004** Collected: 10/02/14 11:50 Received: 10/03/14 14:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/08/14 08:22	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		10/08/14 08:22	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		10/08/14 08:22	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		10/08/14 08:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		10/08/14 08:22	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		10/08/14 08:22	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		10/08/14 08:22	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		10/08/14 08:22	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/08/14 08:22	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/08/14 08:22	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/08/14 08:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/08/14 08:22	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/08/14 08:22	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/08/14 08:22	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/08/14 08:22	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		10/08/14 08:22	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/08/14 08:22	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		10/08/14 08:22	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		10/08/14 08:22	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		10/08/14 08:22	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		10/08/14 08:22	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: OMNISOURCE/KERNERSVILLE LF
Pace Project No.: 92219968

Sample: 3420-SW2 **Lab ID: 92219968005** Collected: 10/02/14 12:10 Received: 10/03/14 14:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	10/08/14 21:15	10/13/14 19:45	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	10/08/14 21:15	10/13/14 19:45	7440-38-2	
Barium	**79.9J**	ug/L	100	5.0	1	10/08/14 21:15	10/13/14 19:45	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	10/08/14 21:15	10/13/14 19:45	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	10/08/14 21:15	10/13/14 19:45	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	10/08/14 21:15	10/13/14 19:45	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	10/08/14 21:15	10/13/14 19:45	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	10/08/14 21:15	10/13/14 19:45	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	10/08/14 21:15	10/13/14 19:45	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	10/08/14 21:15	10/13/14 19:45	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	10/08/14 21:15	10/13/14 19:45	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	10/08/14 21:15	10/13/14 19:45	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	10/08/14 21:15	10/13/14 19:45	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	10/08/14 21:15	10/13/14 19:45	7440-62-2	
Zinc	**10.6**	ug/L	10.0	10.0	1	10/08/14 21:15	10/13/14 19:45	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		10/08/14 08:38	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		10/08/14 08:38	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		10/08/14 08:38	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		10/08/14 08:38	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/08/14 08:38	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		10/08/14 08:38	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		10/08/14 08:38	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		10/08/14 08:38	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		10/08/14 08:38	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/08/14 08:38	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		10/08/14 08:38	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		10/08/14 08:38	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		10/08/14 08:38	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/08/14 08:38	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.0	1		10/08/14 08:38	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		10/08/14 08:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/08/14 08:38	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		10/08/14 08:38	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		10/08/14 08:38	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/08/14 08:38	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		10/08/14 08:38	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		10/08/14 08:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/08/14 08:38	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		10/08/14 08:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		10/08/14 08:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		10/08/14 08:38	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/08/14 08:38	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/08/14 08:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/08/14 08:38	10061-02-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: OMNISOURCE/KERNERSVILLE LF
Pace Project No.: 92219968

Sample: 3420-SW2 **Lab ID: 92219968005** Collected: 10/02/14 12:10 Received: 10/03/14 14:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/08/14 08:38	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		10/08/14 08:38	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		10/08/14 08:38	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		10/08/14 08:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		10/08/14 08:38	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		10/08/14 08:38	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		10/08/14 08:38	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		10/08/14 08:38	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/08/14 08:38	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/08/14 08:38	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/08/14 08:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/08/14 08:38	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/08/14 08:38	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/08/14 08:38	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/08/14 08:38	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		10/08/14 08:38	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/08/14 08:38	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		10/08/14 08:38	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		10/08/14 08:38	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		10/08/14 08:38	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		10/08/14 08:38	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: OMNISOURCE/KERNERSVILLE LF
Pace Project No.: 92219968

Sample: 3420-FIELD BLANK **Lab ID: 92219968006** Collected: 10/02/14 13:15 Received: 10/03/14 14:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	10/08/14 21:15	10/13/14 19:49	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	10/08/14 21:15	10/13/14 19:49	7440-38-2	
Barium	ND	ug/L	100	5.0	1	10/08/14 21:15	10/13/14 19:49	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	10/08/14 21:15	10/13/14 19:49	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	10/08/14 21:15	10/13/14 19:49	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	10/08/14 21:15	10/13/14 19:49	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	10/08/14 21:15	10/13/14 19:49	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	10/08/14 21:15	10/13/14 19:49	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	10/08/14 21:15	10/13/14 19:49	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	10/08/14 21:15	10/13/14 19:49	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	10/08/14 21:15	10/13/14 19:49	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	10/08/14 21:15	10/13/14 19:49	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	10/08/14 21:15	10/13/14 19:49	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	10/08/14 21:15	10/13/14 19:49	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	10/08/14 21:15	10/13/14 19:49	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		10/07/14 01:41	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		10/07/14 01:41	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		10/07/14 01:41	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		10/07/14 01:41	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/07/14 01:41	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		10/07/14 01:41	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		10/07/14 01:41	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		10/07/14 01:41	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		10/07/14 01:41	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/07/14 01:41	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		10/07/14 01:41	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		10/07/14 01:41	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		10/07/14 01:41	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/07/14 01:41	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.0	1		10/07/14 01:41	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		10/07/14 01:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/07/14 01:41	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		10/07/14 01:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		10/07/14 01:41	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/07/14 01:41	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		10/07/14 01:41	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		10/07/14 01:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/07/14 01:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		10/07/14 01:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		10/07/14 01:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		10/07/14 01:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/07/14 01:41	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/07/14 01:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/07/14 01:41	10061-02-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
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ANALYTICAL RESULTS

Project: OMNISOURCE/KERNERSVILLE LF
Pace Project No.: 92219968

Sample: 3420-FIELD BLANK **Lab ID: 92219968006** Collected: 10/02/14 13:15 Received: 10/03/14 14:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/07/14 01:41	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		10/07/14 01:41	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		10/07/14 01:41	74-88-4	
Methylene Chloride	**2.2**	ug/L	1.0	0.97	1		10/07/14 01:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		10/07/14 01:41	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		10/07/14 01:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		10/07/14 01:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		10/07/14 01:41	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/07/14 01:41	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/07/14 01:41	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/07/14 01:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/07/14 01:41	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/07/14 01:41	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/07/14 01:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/07/14 01:41	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		10/07/14 01:41	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/07/14 01:41	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		10/07/14 01:41	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		10/07/14 01:41	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		10/07/14 01:41	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		10/07/14 01:41	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: OMNISOURCE/KERNERSVILLE LF
Pace Project No.: 92219968

Sample: 3420-TRIP BLANK **Lab ID: 92219968007** Collected: 10/02/14 08:00 Received: 10/03/14 14:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		10/07/14 01:58	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		10/07/14 01:58	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		10/07/14 01:58	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		10/07/14 01:58	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/07/14 01:58	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		10/07/14 01:58	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		10/07/14 01:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		10/07/14 01:58	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		10/07/14 01:58	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/07/14 01:58	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		10/07/14 01:58	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		10/07/14 01:58	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		10/07/14 01:58	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/07/14 01:58	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.0	1		10/07/14 01:58	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		10/07/14 01:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/07/14 01:58	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		10/07/14 01:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		10/07/14 01:58	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/07/14 01:58	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		10/07/14 01:58	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		10/07/14 01:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/07/14 01:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		10/07/14 01:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		10/07/14 01:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		10/07/14 01:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/07/14 01:58	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/07/14 01:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/07/14 01:58	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/07/14 01:58	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		10/07/14 01:58	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		10/07/14 01:58	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		10/07/14 01:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		10/07/14 01:58	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		10/07/14 01:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		10/07/14 01:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		10/07/14 01:58	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/07/14 01:58	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/07/14 01:58	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/07/14 01:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/07/14 01:58	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/07/14 01:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/07/14 01:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/07/14 01:58	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		10/07/14 01:58	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/07/14 01:58	75-01-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: OMNISOURCE/KERNERSVILLE LF
Pace Project No.: 92219968

Sample: 3420-TRIP BLANK **Lab ID: 92219968007** Collected: 10/02/14 08:00 Received: 10/03/14 14:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Xylene (Total)	ND	ug/L	5.0	0.66	1		10/07/14 01:58	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		10/07/14 01:58	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		10/07/14 01:58	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		10/07/14 01:58	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Project: OMNISOURCE/KERNERSVILLE LF
Pace Project No.: 92219968

QC Batch: MPRP/17079 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 92219968001, 92219968002, 92219968003, 92219968004, 92219968005, 92219968006

METHOD BLANK: 1302933 Matrix: Water
Associated Lab Samples: 92219968001, 92219968002, 92219968003, 92219968004, 92219968005, 92219968006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	6.0	10/13/14 19:08	
Arsenic	ug/L	ND	10.0	10/13/14 19:08	
Barium	ug/L	ND	100	10/13/14 19:08	
Beryllium	ug/L	ND	1.0	10/13/14 19:08	
Cadmium	ug/L	ND	1.0	10/13/14 19:08	
Chromium	ug/L	ND	10.0	10/13/14 19:08	
Cobalt	ug/L	ND	10.0	10/13/14 19:08	
Copper	ug/L	ND	10.0	10/13/14 19:08	
Lead	ug/L	ND	10.0	10/13/14 19:08	
Nickel	ug/L	ND	50.0	10/13/14 19:08	
Selenium	ug/L	ND	10.0	10/13/14 19:08	
Silver	ug/L	ND	10.0	10/13/14 19:08	
Thallium	ug/L	ND	5.5	10/13/14 19:08	
Vanadium	ug/L	ND	25.0	10/13/14 19:08	
Zinc	ug/L	ND	10.0	10/13/14 19:08	

LABORATORY CONTROL SAMPLE: 1302934

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	486	97	80-120	
Arsenic	ug/L	500	477	95	80-120	
Barium	ug/L	500	472	94	80-120	
Beryllium	ug/L	500	476	95	80-120	
Cadmium	ug/L	500	485	97	80-120	
Chromium	ug/L	500	467	93	80-120	
Cobalt	ug/L	500	480	96	80-120	
Copper	ug/L	500	474	95	80-120	
Lead	ug/L	500	490	98	80-120	
Nickel	ug/L	500	484	97	80-120	
Selenium	ug/L	500	482	96	80-120	
Silver	ug/L	250	245	98	80-120	
Thallium	ug/L	500	465	93	80-120	
Vanadium	ug/L	500	486	97	80-120	
Zinc	ug/L	500	479	96	80-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: OMNISOURCE/KERNERSVILLE LF
Pace Project No.: 92219968

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1302935 1302936

Parameter	Units	92219968001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	6.5	500	500	489	494	97	98	75-125	1	25	
Arsenic	ug/L	ND	500	500	491	490	98	98	75-125	0	25	
Barium	ug/L	15.5J	500	500	481	485	93	94	75-125	1	25	
Beryllium	ug/L	ND	500	500	476	479	95	96	75-125	1	25	
Cadmium	ug/L	ND	500	500	472	473	94	95	75-125	0	25	
Chromium	ug/L	ND	500	500	464	467	93	93	75-125	1	25	
Cobalt	ug/L	ND	500	500	473	476	95	95	75-125	1	25	
Copper	ug/L	ND	500	500	483	486	97	97	75-125	1	25	
Lead	ug/L	ND	500	500	475	479	95	96	75-125	1	25	
Nickel	ug/L	ND	500	500	475	477	95	95	75-125	0	25	
Selenium	ug/L	ND	500	500	491	485	98	97	75-125	1	25	
Silver	ug/L	ND	250	250	241	243	96	97	75-125	1	25	
Thallium	ug/L	ND	500	500	455	459	91	92	75-125	1	25	
Vanadium	ug/L	ND	500	500	487	491	97	98	75-125	1	25	
Zinc	ug/L	ND	500	500	479	477	96	95	75-125	0	25	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: OMNISOURCE/KERNERSVILLE LF
Pace Project No.: 92219968

QC Batch: MSV/28645
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 92219968006, 92219968007

METHOD BLANK: 1300351
Matrix: Water
Associated Lab Samples: 92219968006, 92219968007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	10/07/14 00:36	
1,1,1-Trichloroethane	ug/L	ND	1.0	10/07/14 00:36	
1,1,2,2-Tetrachloroethane	ug/L	ND	3.0	10/07/14 00:36	
1,1,2-Trichloroethane	ug/L	ND	1.0	10/07/14 00:36	
1,1-Dichloroethane	ug/L	ND	5.0	10/07/14 00:36	
1,1-Dichloroethene	ug/L	ND	5.0	10/07/14 00:36	
1,2,3-Trichloropropane	ug/L	ND	1.0	10/07/14 00:36	
1,2-Dibromo-3-chloropropane	ug/L	ND	13.0	10/07/14 00:36	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	10/07/14 00:36	
1,2-Dichlorobenzene	ug/L	ND	5.0	10/07/14 00:36	
1,2-Dichloroethane	ug/L	ND	1.0	10/07/14 00:36	
1,2-Dichloropropane	ug/L	ND	1.0	10/07/14 00:36	
1,4-Dichlorobenzene	ug/L	ND	1.0	10/07/14 00:36	
2-Butanone (MEK)	ug/L	ND	100	10/07/14 00:36	
2-Hexanone	ug/L	ND	50.0	10/07/14 00:36	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	10/07/14 00:36	
Acetone	ug/L	ND	100	10/07/14 00:36	
Acrylonitrile	ug/L	ND	200	10/07/14 00:36	
Benzene	ug/L	ND	1.0	10/07/14 00:36	
Bromochloromethane	ug/L	ND	3.0	10/07/14 00:36	
Bromodichloromethane	ug/L	ND	1.0	10/07/14 00:36	
Bromoform	ug/L	ND	3.0	10/07/14 00:36	
Bromomethane	ug/L	ND	10.0	10/07/14 00:36	
Carbon disulfide	ug/L	ND	100	10/07/14 00:36	
Carbon tetrachloride	ug/L	ND	1.0	10/07/14 00:36	
Chlorobenzene	ug/L	ND	3.0	10/07/14 00:36	
Chloroethane	ug/L	ND	10.0	10/07/14 00:36	
Chloroform	ug/L	ND	5.0	10/07/14 00:36	
Chloromethane	ug/L	ND	1.0	10/07/14 00:36	
cis-1,2-Dichloroethene	ug/L	ND	5.0	10/07/14 00:36	
cis-1,3-Dichloropropene	ug/L	ND	1.0	10/07/14 00:36	
Dibromochloromethane	ug/L	ND	3.0	10/07/14 00:36	
Dibromomethane	ug/L	ND	10.0	10/07/14 00:36	
Ethylbenzene	ug/L	ND	1.0	10/07/14 00:36	
Iodomethane	ug/L	ND	10.0	10/07/14 00:36	
Methylene Chloride	ug/L	ND	1.0	10/07/14 00:36	
Styrene	ug/L	ND	1.0	10/07/14 00:36	
Tetrachloroethene	ug/L	ND	1.0	10/07/14 00:36	
Toluene	ug/L	ND	1.0	10/07/14 00:36	
trans-1,2-Dichloroethene	ug/L	ND	5.0	10/07/14 00:36	
trans-1,3-Dichloropropene	ug/L	ND	1.0	10/07/14 00:36	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: OMNISOURCE/KERNERSVILLE LF
Pace Project No.: 92219968

METHOD BLANK: 1300351 Matrix: Water
Associated Lab Samples: 92219968006, 92219968007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,4-Dichloro-2-butene	ug/L	ND	100	10/07/14 00:36	
Trichloroethene	ug/L	ND	1.0	10/07/14 00:36	
Trichlorofluoromethane	ug/L	ND	1.0	10/07/14 00:36	
Vinyl acetate	ug/L	ND	50.0	10/07/14 00:36	
Vinyl chloride	ug/L	ND	1.0	10/07/14 00:36	
Xylene (Total)	ug/L	ND	5.0	10/07/14 00:36	
1,2-Dichloroethane-d4 (S)	%	104	70-130	10/07/14 00:36	
4-Bromofluorobenzene (S)	%	102	70-130	10/07/14 00:36	
Toluene-d8 (S)	%	96	70-130	10/07/14 00:36	

LABORATORY CONTROL SAMPLE: 1300352

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	47.6	95	80-125	
1,1,1-Trichloroethane	ug/L	50	52.0	104	71-129	
1,1,2,2-Tetrachloroethane	ug/L	50	48.8	98	79-124	
1,1,2-Trichloroethane	ug/L	50	49.6	99	85-125	
1,1-Dichloroethane	ug/L	50	54.0	108	73-126	
1,1-Dichloroethene	ug/L	50	48.3	97	66-135	
1,2,3-Trichloropropane	ug/L	50	46.2	92	75-130	
1,2-Dibromo-3-chloropropane	ug/L	50	47.1	94	71-133	
1,2-Dibromoethane (EDB)	ug/L	50	53.1	106	83-124	
1,2-Dichlorobenzene	ug/L	50	51.5	103	80-133	
1,2-Dichloroethane	ug/L	50	48.1	96	67-128	
1,2-Dichloropropane	ug/L	50	50.7	101	75-132	
1,4-Dichlorobenzene	ug/L	50	50.6	101	78-130	
2-Butanone (MEK)	ug/L	100	102	102	61-144	
2-Hexanone	ug/L	100	97.9	98	68-143	
4-Methyl-2-pentanone (MIBK)	ug/L	100	95.9J	96	72-135	
Acetone	ug/L	100	89.6J	90	48-146	
Acrylonitrile	ug/L	250	266	106	40-160	
Benzene	ug/L	50	51.6	103	80-125	
Bromochloromethane	ug/L	50	58.1	116	71-125	
Bromodichloromethane	ug/L	50	49.2	98	78-124	
Bromoform	ug/L	50	54.9	110	71-128	
Bromomethane	ug/L	50	50.5	101	40-160	
Carbon disulfide	ug/L	50	52.7J	105	50-160	
Carbon tetrachloride	ug/L	50	51.5	103	69-131	
Chlorobenzene	ug/L	50	49.5	99	81-122	
Chloroethane	ug/L	50	52.1	104	39-148	
Chloroform	ug/L	50	50.5	101	73-127	
Chloromethane	ug/L	50	58.4	117	44-146	
cis-1,2-Dichloroethene	ug/L	50	52.0	104	74-124	
cis-1,3-Dichloropropene	ug/L	50	51.9	104	72-132	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: OMNISOURCE/KERNERSVILLE LF
Pace Project No.: 92219968

LABORATORY CONTROL SAMPLE: 1300352

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromochloromethane	ug/L	50	51.1	102	78-125	
Dibromomethane	ug/L	50	50.6	101	82-120	
Ethylbenzene	ug/L	50	48.3	97	79-121	
Iodomethane	ug/L	100	190	190	39-154	L0
Methylene Chloride	ug/L	50	50.7	101	64-133	
Styrene	ug/L	50	50.3	101	84-126	
Tetrachloroethene	ug/L	50	50.9	102	78-122	
Toluene	ug/L	50	49.6	99	80-121	
trans-1,2-Dichloroethene	ug/L	50	52.9	106	71-127	
trans-1,3-Dichloropropene	ug/L	50	51.6	103	69-141	
trans-1,4-Dichloro-2-butene	ug/L	50	48.0J	96	40-160	
Trichloroethene	ug/L	50	49.9	100	78-122	
Trichlorofluoromethane	ug/L	50	46.5	93	53-137	
Vinyl acetate	ug/L	100	99.9	100	40-160	
Vinyl chloride	ug/L	50	53.4	107	58-137	
Xylene (Total)	ug/L	150	142	95	81-126	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 1300354

Parameter	Units	92219805006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20.4	102	70-130	
1,1,1-Trichloroethane	ug/L	ND	20	23.2	116	70-130	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20.8	104	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	21.4	107	70-130	
1,1-Dichloroethane	ug/L	ND	20	22.7	114	70-130	
1,1-Dichloroethene	ug/L	ND	20	22.9	114	70-166	
1,2,3-Trichloropropane	ug/L	ND	20	21.2	106	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20.1	101	70-130	
1,2-Dibromoethane (EDB)	ug/L	ND	20	22.6	113	70-130	
1,2-Dichlorobenzene	ug/L	ND	20	22.6	113	70-130	
1,2-Dichloroethane	ug/L	ND	20	21.4	107	70-130	
1,2-Dichloropropane	ug/L	ND	20	21.3	107	70-130	
1,4-Dichlorobenzene	ug/L	ND	20	22.1	111	70-130	
2-Butanone (MEK)	ug/L	ND	40	38.1J	95	70-130	
2-Hexanone	ug/L	ND	40	42.2J	105	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	41.1J	103	70-130	
Acetone	ug/L	ND	40	37.9J	95	70-130	
Acrylonitrile	ug/L	ND	100	87.4J	87	70-130	
Benzene	ug/L	ND	20	21.9	110	70-148	
Bromochloromethane	ug/L	ND	20	23.4	117	70-130	
Bromodichloromethane	ug/L	ND	20	22.5	112	70-130	
Bromoform	ug/L	ND	20	22.7	113	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: OMNISOURCE/KERNERSVILLE LF
Pace Project No.: 92219968

MATRIX SPIKE SAMPLE: 1300354

Parameter	Units	92219805006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/L	ND	20	18.0	90	70-130	
Carbon disulfide	ug/L	ND	20	23.5J	118	70-130	
Carbon tetrachloride	ug/L	ND	20	23.5	117	70-130	
Chlorobenzene	ug/L	ND	20	22.4	112	70-146	
Chloroethane	ug/L	ND	20	22.0	110	70-130	
Chloroform	ug/L	ND	20	21.7	109	70-130	
Chloromethane	ug/L	ND	20	22.4	112	70-130	
cis-1,2-Dichloroethene	ug/L	ND	20	22.8	114	70-130	
cis-1,3-Dichloropropene	ug/L	ND	20	20.4	102	70-130	
Dibromochloromethane	ug/L	ND	20	20.9	104	70-130	
Dibromomethane	ug/L	ND	20	21.4	107	70-130	
Ethylbenzene	ug/L	ND	20	22.1	111	70-130	
Iodomethane	ug/L	ND	40	70.7	177	70-130	M0
Methylene Chloride	ug/L	ND	20	21.4	107	70-130	
Styrene	ug/L	ND	20	21.7	108	70-130	
Tetrachloroethene	ug/L	ND	20	21.8	109	70-130	
Toluene	ug/L	ND	20	21.7	109	70-155	
trans-1,2-Dichloroethene	ug/L	ND	20	22.7	114	70-130	
trans-1,3-Dichloropropene	ug/L	ND	20	21.0	105	70-130	
trans-1,4-Dichloro-2-butene	ug/L	ND	20	19.8J	99	70-130	
Trichloroethene	ug/L	ND	20	22.3	111	69-151	
Trichlorofluoromethane	ug/L	ND	20	24.9	125	70-130	
Vinyl acetate	ug/L	ND	40	30.2J	76	70-130	
Vinyl chloride	ug/L	ND	20	23.5	117	70-130	
1,2-Dichloroethane-d4 (S)	%				103	70-130	
4-Bromofluorobenzene (S)	%				101	70-130	
Toluene-d8 (S)	%				97	70-130	

SAMPLE DUPLICATE: 1300353

Parameter	Units	92219805007 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND			
1,1,1-Trichloroethane	ug/L	ND	ND			
1,1,2,2-Tetrachloroethane	ug/L	ND	ND			
1,1,2-Trichloroethane	ug/L	ND	ND			
1,1-Dichloroethane	ug/L	ND	ND			
1,1-Dichloroethene	ug/L	ND	ND			
1,2,3-Trichloropropane	ug/L	ND	ND			
1,2-Dibromo-3-chloropropane	ug/L	ND	ND			
1,2-Dibromoethane (EDB)	ug/L	ND	ND			
1,2-Dichlorobenzene	ug/L	ND	ND			
1,2-Dichloroethane	ug/L	ND	ND			
1,2-Dichloropropane	ug/L	ND	ND			
1,4-Dichlorobenzene	ug/L	ND	ND			
2-Butanone (MEK)	ug/L	ND	ND			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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(704)875-9092

QUALITY CONTROL DATA

Project: OMNISOURCE/KERNERSVILLE LF
Pace Project No.: 92219968

SAMPLE DUPLICATE: 1300353

Parameter	Units	92219805007 Result	Dup Result	RPD	Max RPD	Qualifiers
2-Hexanone	ug/L	ND	ND			
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND			
Acetone	ug/L	ND	ND			
Acrylonitrile	ug/L	ND	ND			
Benzene	ug/L	ND	ND			
Bromochloromethane	ug/L	ND	ND			
Bromodichloromethane	ug/L	ND	ND			
Bromoform	ug/L	ND	ND			
Bromomethane	ug/L	ND	ND			
Carbon disulfide	ug/L	ND	ND			
Carbon tetrachloride	ug/L	ND	ND			
Chlorobenzene	ug/L	ND	ND			
Chloroethane	ug/L	ND	ND			
Chloroform	ug/L	ND	ND			
Chloromethane	ug/L	ND	ND			
cis-1,2-Dichloroethene	ug/L	ND	ND			
cis-1,3-Dichloropropene	ug/L	ND	ND			
Dibromochloromethane	ug/L	ND	ND			
Dibromomethane	ug/L	ND	ND			
Ethylbenzene	ug/L	ND	ND			
Iodomethane	ug/L	ND	ND			
Methylene Chloride	ug/L	ND	ND			
Styrene	ug/L	ND	ND			
Tetrachloroethene	ug/L	ND	ND			
Toluene	ug/L	ND	ND			
trans-1,2-Dichloroethene	ug/L	ND	ND			
trans-1,3-Dichloropropene	ug/L	ND	ND			
trans-1,4-Dichloro-2-butene	ug/L	ND	ND			
Trichloroethene	ug/L	ND	ND			
Trichlorofluoromethane	ug/L	ND	ND			
Vinyl acetate	ug/L	ND	ND			
Vinyl chloride	ug/L	ND	ND			
Xylene (Total)	ug/L	ND	ND			
1,2-Dichloroethane-d4 (S)	%	103	99	4		
4-Bromofluorobenzene (S)	%	99	101	2		
Toluene-d8 (S)	%	100	97	3		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: OMNISOURCE/KERNERSVILLE LF
Pace Project No.: 92219968

QC Batch: MSV/28663 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 92219968001, 92219968002, 92219968003, 92219968004, 92219968005

METHOD BLANK: 1301645 Matrix: Water
Associated Lab Samples: 92219968001, 92219968002, 92219968003, 92219968004, 92219968005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	10/07/14 23:52	
1,1,1-Trichloroethane	ug/L	ND	1.0	10/07/14 23:52	
1,1,2,2-Tetrachloroethane	ug/L	ND	3.0	10/07/14 23:52	
1,1,2-Trichloroethane	ug/L	ND	1.0	10/07/14 23:52	
1,1-Dichloroethane	ug/L	ND	5.0	10/07/14 23:52	
1,1-Dichloroethene	ug/L	ND	5.0	10/07/14 23:52	
1,2,3-Trichloropropane	ug/L	ND	1.0	10/07/14 23:52	
1,2-Dibromo-3-chloropropane	ug/L	ND	13.0	10/07/14 23:52	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	10/07/14 23:52	
1,2-Dichlorobenzene	ug/L	ND	5.0	10/07/14 23:52	
1,2-Dichloroethane	ug/L	ND	1.0	10/07/14 23:52	
1,2-Dichloropropane	ug/L	ND	1.0	10/07/14 23:52	
1,4-Dichlorobenzene	ug/L	ND	1.0	10/07/14 23:52	
2-Butanone (MEK)	ug/L	ND	100	10/07/14 23:52	
2-Hexanone	ug/L	ND	50.0	10/07/14 23:52	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	10/07/14 23:52	
Acetone	ug/L	ND	100	10/07/14 23:52	
Acrylonitrile	ug/L	ND	200	10/07/14 23:52	
Benzene	ug/L	ND	1.0	10/07/14 23:52	
Bromochloromethane	ug/L	ND	3.0	10/07/14 23:52	
Bromodichloromethane	ug/L	ND	1.0	10/07/14 23:52	
Bromoform	ug/L	ND	3.0	10/07/14 23:52	
Bromomethane	ug/L	ND	10.0	10/07/14 23:52	
Carbon disulfide	ug/L	ND	100	10/07/14 23:52	
Carbon tetrachloride	ug/L	ND	1.0	10/07/14 23:52	
Chlorobenzene	ug/L	ND	3.0	10/07/14 23:52	
Chloroethane	ug/L	ND	10.0	10/07/14 23:52	
Chloroform	ug/L	ND	5.0	10/07/14 23:52	
Chloromethane	ug/L	ND	1.0	10/07/14 23:52	
cis-1,2-Dichloroethene	ug/L	ND	5.0	10/07/14 23:52	
cis-1,3-Dichloropropene	ug/L	ND	1.0	10/07/14 23:52	
Dibromochloromethane	ug/L	ND	3.0	10/07/14 23:52	
Dibromomethane	ug/L	ND	10.0	10/07/14 23:52	
Ethylbenzene	ug/L	ND	1.0	10/07/14 23:52	
Iodomethane	ug/L	ND	10.0	10/07/14 23:52	
Methylene Chloride	ug/L	ND	1.0	10/07/14 23:52	
Styrene	ug/L	ND	1.0	10/07/14 23:52	
Tetrachloroethene	ug/L	ND	1.0	10/07/14 23:52	
Toluene	ug/L	ND	1.0	10/07/14 23:52	
trans-1,2-Dichloroethene	ug/L	ND	5.0	10/07/14 23:52	
trans-1,3-Dichloropropene	ug/L	ND	1.0	10/07/14 23:52	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: OMNISOURCE/KERNERSVILLE LF
Pace Project No.: 92219968

METHOD BLANK: 1301645 Matrix: Water
Associated Lab Samples: 92219968001, 92219968002, 92219968003, 92219968004, 92219968005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,4-Dichloro-2-butene	ug/L	ND	100	10/07/14 23:52	
Trichloroethene	ug/L	ND	1.0	10/07/14 23:52	
Trichlorofluoromethane	ug/L	ND	1.0	10/07/14 23:52	
Vinyl acetate	ug/L	ND	50.0	10/07/14 23:52	
Vinyl chloride	ug/L	ND	1.0	10/07/14 23:52	
Xylene (Total)	ug/L	ND	5.0	10/07/14 23:52	
1,2-Dichloroethane-d4 (S)	%	110	70-130	10/07/14 23:52	
4-Bromofluorobenzene (S)	%	101	70-130	10/07/14 23:52	
Toluene-d8 (S)	%	98	70-130	10/07/14 23:52	

LABORATORY CONTROL SAMPLE: 1301646

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.0	100	80-125	
1,1,1-Trichloroethane	ug/L	50	49.2	98	71-129	
1,1,2,2-Tetrachloroethane	ug/L	50	49.0	98	79-124	
1,1,2-Trichloroethane	ug/L	50	50.0	100	85-125	
1,1-Dichloroethane	ug/L	50	52.2	104	73-126	
1,1-Dichloroethene	ug/L	50	50.0	100	66-135	
1,2,3-Trichloropropane	ug/L	50	46.8	94	75-130	
1,2-Dibromo-3-chloropropane	ug/L	50	55.2	110	71-133	
1,2-Dibromoethane (EDB)	ug/L	50	54.7	109	83-124	
1,2-Dichlorobenzene	ug/L	50	51.0	102	80-133	
1,2-Dichloroethane	ug/L	50	48.5	97	67-128	
1,2-Dichloropropane	ug/L	50	52.9	106	75-132	
1,4-Dichlorobenzene	ug/L	50	50.9	102	78-130	
2-Butanone (MEK)	ug/L	100	100	100	61-144	
2-Hexanone	ug/L	100	98.1	98	68-143	
4-Methyl-2-pentanone (MIBK)	ug/L	100	102	102	72-135	
Acetone	ug/L	100	91.8J	92	48-146	
Acrylonitrile	ug/L	250	223	89	40-160	
Benzene	ug/L	50	51.9	104	80-125	
Bromochloromethane	ug/L	50	52.5	105	71-125	
Bromodichloromethane	ug/L	50	51.4	103	78-124	
Bromoform	ug/L	50	54.6	109	71-128	
Bromomethane	ug/L	50	45.4	91	40-160	
Carbon disulfide	ug/L	50	52.6J	105	50-160	
Carbon tetrachloride	ug/L	50	50.1	100	69-131	
Chlorobenzene	ug/L	50	49.8	100	81-122	
Chloroethane	ug/L	50	50.5	101	39-148	
Chloroform	ug/L	50	50.5	101	73-127	
Chloromethane	ug/L	50	50.8	102	44-146	
cis-1,2-Dichloroethene	ug/L	50	51.9	104	74-124	
cis-1,3-Dichloropropene	ug/L	50	52.3	105	72-132	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: OMNISOURCE/KERNERSVILLE LF
Pace Project No.: 92219968

LABORATORY CONTROL SAMPLE: 1301646

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromochloromethane	ug/L	50	51.8	104	78-125	
Dibromomethane	ug/L	50	50.4	101	82-120	
Ethylbenzene	ug/L	50	48.2	96	79-121	
Iodomethane	ug/L	100	172	172	39-154	L0
Methylene Chloride	ug/L	50	51.4	103	64-133	
Styrene	ug/L	50	50.4	101	84-126	
Tetrachloroethene	ug/L	50	50.5	101	78-122	
Toluene	ug/L	50	49.9	100	80-121	
trans-1,2-Dichloroethene	ug/L	50	52.7	105	71-127	
trans-1,3-Dichloropropene	ug/L	50	53.7	107	69-141	
trans-1,4-Dichloro-2-butene	ug/L	50	53.1J	106	40-160	
Trichloroethene	ug/L	50	50.8	102	78-122	
Trichlorofluoromethane	ug/L	50	49.2	98	53-137	
Vinyl acetate	ug/L	100	100	100	40-160	
Vinyl chloride	ug/L	50	45.7	91	58-137	
Xylene (Total)	ug/L	150	142	95	81-126	
1,2-Dichloroethane-d4 (S)	%			106	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE SAMPLE: 1301648

Parameter	Units	92219968002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20.2	101	70-130	
1,1,1-Trichloroethane	ug/L	ND	20	25.0	125	70-130	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	18.9	94	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	20.1	101	70-130	
1,1-Dichloroethane	ug/L	ND	20	22.8	114	70-130	
1,1-Dichloroethene	ug/L	ND	20	22.9	115	70-166	
1,2,3-Trichloropropane	ug/L	ND	20	20.0	100	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	19.2	96	70-130	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20.6	103	70-130	
1,2-Dichlorobenzene	ug/L	ND	20	21.6	108	70-130	
1,2-Dichloroethane	ug/L	ND	20	21.7	109	70-130	
1,2-Dichloropropane	ug/L	ND	20	21.1	105	70-130	
1,4-Dichlorobenzene	ug/L	ND	20	21.7	108	70-130	
2-Butanone (MEK)	ug/L	ND	40	34.1J	85	70-130	
2-Hexanone	ug/L	ND	40	38.1J	95	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	39.7J	99	70-130	
Acetone	ug/L	ND	40	37.4J	94	70-130	
Acrylonitrile	ug/L	ND	100	83.9J	84	70-130	
Benzene	ug/L	ND	20	21.7	109	70-148	
Bromochloromethane	ug/L	ND	20	22.9	115	70-130	
Bromodichloromethane	ug/L	ND	20	23.1	115	70-130	
Bromoform	ug/L	ND	20	20.0	100	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: OMNISOURCE/KERNERSVILLE LF
Pace Project No.: 92219968

MATRIX SPIKE SAMPLE: 1301648

Parameter	Units	92219968002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/L	ND	20	21.7	108	70-130	
Carbon disulfide	ug/L	ND	20	23.1J	116	70-130	
Carbon tetrachloride	ug/L	ND	20	24.8	124	70-130	
Chlorobenzene	ug/L	ND	20	20.6	103	70-146	
Chloroethane	ug/L	ND	20	21.4	107	70-130	
Chloroform	ug/L	ND	20	21.1	106	70-130	
Chloromethane	ug/L	ND	20	18.2	91	70-130	
cis-1,2-Dichloroethene	ug/L	ND	20	22.6	113	70-130	
cis-1,3-Dichloropropene	ug/L	ND	20	20.1	100	70-130	
Dibromochloromethane	ug/L	ND	20	20.3	102	70-130	
Dibromomethane	ug/L	ND	20	20.3	102	70-130	
Ethylbenzene	ug/L	ND	20	20.9	104	70-130	
Iodomethane	ug/L	ND	40	67.8	170	70-130	M0
Methylene Chloride	ug/L	ND	20	21.1	106	70-130	
Styrene	ug/L	ND	20	20.3	102	70-130	
Tetrachloroethene	ug/L	ND	20	20.8	104	70-130	
Toluene	ug/L	ND	20	20.7	103	70-155	
trans-1,2-Dichloroethene	ug/L	ND	20	23.7	119	70-130	
trans-1,3-Dichloropropene	ug/L	ND	20	21.2	106	70-130	
trans-1,4-Dichloro-2-butene	ug/L	ND	20	18.5J	93	70-130	
Trichloroethene	ug/L	ND	20	20.8	104	69-151	
Trichlorofluoromethane	ug/L	ND	20	26.8	134	70-130	M0
Vinyl acetate	ug/L	ND	40	31.2J	78	70-130	
Vinyl chloride	ug/L	ND	20	22.3	111	70-130	
1,2-Dichloroethane-d4 (S)	%				105	70-130	
4-Bromofluorobenzene (S)	%				96	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 1301647

Parameter	Units	92219968001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND			
1,1,1-Trichloroethane	ug/L	ND	ND			
1,1,2,2-Tetrachloroethane	ug/L	ND	ND			
1,1,2-Trichloroethane	ug/L	ND	ND			
1,1-Dichloroethane	ug/L	ND	ND			
1,1-Dichloroethene	ug/L	ND	ND			
1,2,3-Trichloropropane	ug/L	ND	ND			
1,2-Dibromo-3-chloropropane	ug/L	ND	ND			
1,2-Dibromoethane (EDB)	ug/L	ND	ND			
1,2-Dichlorobenzene	ug/L	ND	ND			
1,2-Dichloroethane	ug/L	ND	ND			
1,2-Dichloropropane	ug/L	ND	ND			
1,4-Dichlorobenzene	ug/L	ND	ND			
2-Butanone (MEK)	ug/L	ND	ND			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OMNISOURCE/KERNERSVILLE LF
Pace Project No.: 92219968

SAMPLE DUPLICATE: 1301647

Parameter	Units	92219968001 Result	Dup Result	RPD	Max RPD	Qualifiers
2-Hexanone	ug/L	ND	ND			
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND			
Acetone	ug/L	ND	ND			
Acrylonitrile	ug/L	ND	ND			
Benzene	ug/L	ND	ND			
Bromochloromethane	ug/L	ND	ND			
Bromodichloromethane	ug/L	ND	ND			
Bromoform	ug/L	ND	ND			
Bromomethane	ug/L	ND	ND			
Carbon disulfide	ug/L	ND	ND			
Carbon tetrachloride	ug/L	ND	ND			
Chlorobenzene	ug/L	ND	ND			
Chloroethane	ug/L	ND	ND			
Chloroform	ug/L	ND	ND			
Chloromethane	ug/L	ND	ND			
cis-1,2-Dichloroethene	ug/L	ND	ND			
cis-1,3-Dichloropropene	ug/L	ND	ND			
Dibromochloromethane	ug/L	ND	ND			
Dibromomethane	ug/L	ND	ND			
Ethylbenzene	ug/L	ND	ND			
Iodomethane	ug/L	ND	ND			
Methylene Chloride	ug/L	ND	ND			
Styrene	ug/L	ND	ND			
Tetrachloroethene	ug/L	ND	ND			
Toluene	ug/L	ND	ND			
trans-1,2-Dichloroethene	ug/L	ND	ND			
trans-1,3-Dichloropropene	ug/L	ND	ND			
trans-1,4-Dichloro-2-butene	ug/L	ND	ND			
Trichloroethene	ug/L	ND	ND			
Trichlorofluoromethane	ug/L	ND	ND			
Vinyl acetate	ug/L	ND	ND			
Vinyl chloride	ug/L	ND	ND			
Xylene (Total)	ug/L	ND	ND			
1,2-Dichloroethane-d4 (S)	%	102	103	1		
4-Bromofluorobenzene (S)	%	100	97	3		
Toluene-d8 (S)	%	97	97	0		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: OMNISOURCE/KERNERSVILLE LF
Pace Project No.: 92219968

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OMNISOURCE/KERNERSVILLE LF
Pace Project No.: 92219968

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92219968001	**3420-MW1R**	EPA 3010	MPRP/17079	EPA 6010	ICP/15402
92219968002	**3420-MW12**	EPA 3010	MPRP/17079	EPA 6010	ICP/15402
92219968003	**3420-MW13**	EPA 3010	MPRP/17079	EPA 6010	ICP/15402
92219968004	**3420-MW14**	EPA 3010	MPRP/17079	EPA 6010	ICP/15402
92219968005	**3420-SW2**	EPA 3010	MPRP/17079	EPA 6010	ICP/15402
92219968006	**3420-FIELD BLANK**	EPA 3010	MPRP/17079	EPA 6010	ICP/15402
92219968001	**3420-MW1R**	EPA 8260	MSV/28663		
92219968002	**3420-MW12**	EPA 8260	MSV/28663		
92219968003	**3420-MW13**	EPA 8260	MSV/28663		
92219968004	**3420-MW14**	EPA 8260	MSV/28663		
92219968005	**3420-SW2**	EPA 8260	MSV/28663		
92219968006	**3420-FIELD BLANK**	EPA 8260	MSV/28645		
92219968007	**3420-TRIP BLANK**	EPA 8260	MSV/28645		

Pace Analytical	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: September 22, 2014 Page 1 of 2
	Document Number: F-CHR-CS-003-rev.15	Issuing Authority: Pace Huntersville Quality Office

Client Name: Joyce

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Optional
Proj. Due Date:
Proj. Name:

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other_____

Thermometer Used: IR Gun T1401 Type of Ice: Wet Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor T1401 No Correction

Corrected Cooler Temp.: 4.6 °C Biological Tissue is Frozen: Yes No (N/A)

Date and Initials of person examining contents: JW 10-3-14

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix:_____		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☑Yes ☐No	
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present: JW 10-3-14	☑Yes ☐No ☑N/A	16. No time/date on label
Trip Blank Custody Seals Present	☑Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted:_____ Date/Time:_____

Comments/ Resolution:_____

SCURF Review: JW Date: 10/3/14

SRF Review: JW Date: 10/6/14

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

WO# : 92219968

92219968

(if no label available)

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A
Required Client Information:

Company:	Joyce Engineering-Greensboro
Address:	2211 West Meadowview Rd
	Greensboro, NC 27407
Email To:	aeverhart@joyceengineering.com
Phone: (336) 323-0092	Fax:
Requested Due Date/TAT:	10 Day (Default)

Section B
Required Project Information:

Report To:	Van Burbach
Copy To:	Alex Everhart
	2211 W. Meadowview Rd, Greensboro, NC 27407
Purchase Order No.	
Client Project ID:	OmniSource/Kernersville LF
Container Order Number:	

Section C
Invoice Information:

Attention:	Lercia Jones
Company Name:	Joyce Engineering
Address:	
Pace Quote Reference:	
Pace Project Manager:	Godwin, Kevin
Pace Profile #:	

Regulatory Agency

State / Location
NC

Requested Analysis Filtered (Y/N)

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test: Y/N	NC Appendix I Metals	NC Appendix I VOCs	Residual Chlorine (Y/N)	
1	MW-1R	WT	G			10/2/14	1235		4			X	X						X	X		9219968
2	MW-12	WT	G				1304		4			X	X						X	X		01
3	MW-13	WT	G				1220		4			X	X						X	X		2
4	MW-14	WT	G				1150		4			X	X						X	X		3
5	SW-1	WT	G						4										X	X		4
6	SW-2	WT	G				1210		4			X	X						X	X		DRY
7	Field Blank	WT	G				1315		4			X	X						X	X		5
8	Trip Blank	WT	G			✓	0800		2				X							X		6
9																						7
10																						
11																						
12																						

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Amanda Freeman / Joyce	10/3/14	1235		10/3/14	1235				
		10/3/14	1450	Jaclyn Wilson/Pace	10/3/14	1450	4.6	Y	N	Y

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Amanda Freeman				
SIGNATURE of SAMPLER:	Amanda Freeman				
DATE Signed:	10/2/14				

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

November 24, 2014

Mr. Alex Everhart
Joyce Engineering-NC
2211 W. Meadowview Road
Suite 101
Greensboro, NC 27407

RE: Project: OMNISOURCE/KERNERSVILLE LF
Pace Project No.: 92226617

Dear Mr. Everhart:
Enclosed are the analytical results for sample(s) received by the laboratory on November 20, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kevin Godwin
kevin.godwin@pacelabs.com
Project Manager

Enclosures

cc: Mr. Van Burbach, Joyce Engineering-NC
Alex Everhart, Joyce Engineering-NC

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: OMNISOURCE/KERNERSVILLE LF
Pace Project No.: 92226617

Asheville Certification IDs
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: OMNISOURCE/KERNERSVILLE LF
Pace Project No.: 92226617

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92226617001	**3420-MW13**	Water	11/19/14 15:05	11/20/14 15:16
92226617002	**3420-FIELD BLANK**	Water	11/19/14 15:20	11/20/14 15:16

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: OMNISOURCE/KERNERSVILLE LF
Pace Project No.: 92226617

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92226617001	**3420-MW13**	EPA 6010	JMW	1	PASI-A
92226617002	**3420-FIELD BLANK**	EPA 6010	JMW	1	PASI-A

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: OMNISOURCE/KERNERSVILLE LF
Pace Project No.: 92226617

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92226617001	**3420-MW13**					
EPA 6010	Cobalt	5.8J	ug/L	10.0	11/24/14 14:27	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: OMNISOURCE/KERNERSVILLE LF
Pace Project No.: 92226617

Sample: 3420-MW13 **Lab ID: 92226617001** Collected: 11/19/14 15:05 Received: 11/20/14 15:16 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Cobalt	**5.8J**	ug/L	10.0	2.5	1	11/21/14 17:00	11/24/14 14:27	7440-48-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: OMNISOURCE/KERNERSVILLE LF
Pace Project No.: 92226617

Sample: 3420-FIELD BLANK **Lab ID: 92226617002** Collected: 11/19/14 15:20 Received: 11/20/14 15:16 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Cobalt	ND	ug/L	10.0	2.5	1	11/21/14 17:00	11/24/14 14:30	7440-48-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: OMNISOURCE/KERNERSVILLE LF
Pace Project No.: 92226617

QC Batch: MPRP/17410 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 92226617001, 92226617002

METHOD BLANK: 1336222 Matrix: Water
Associated Lab Samples: 92226617001, 92226617002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cobalt	ug/L	ND	10.0	11/24/14 13:46	

LABORATORY CONTROL SAMPLE: 1336223

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cobalt	ug/L	500	491	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1336224 1336225

Parameter	Units	92226490001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cobalt	ug/L	ND	500	500	493	490	99	98	75-125	1	25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: OMNISOURCE/KERNERSVILLE LF
Pace Project No.: 92226617

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A Pace Analytical Services - Asheville

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OMNISOURCE/KERNERSVILLE LF
Pace Project No.: 92226617

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92226617001	**3420-MW13**	EPA 3010	MPRP/17410	EPA 6010	ICP/15687
92226617002	**3420-FIELD BLANK**	EPA 3010	MPRP/17410	EPA 6010	ICP/15687

Pace Analytical	Sample Condition Upon Receipt (SCUR)	Page 1 of 2
	Document Number: F-CHR-CS-003-rev.15	Issuing Authority: Pace Huntersville Quality Office

Client Name: Joyce Engineering

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other_____

Thermometer Used: IR Gun T1401 Type of Ice: Wet Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor T1401 No Correction

Corrected Cooler Temp.: 3.2 °C Biological Tissue is Frozen: Yes No N/A

Temp should be above freezing to 6°C

Optional
Proj. Due Date:
Proj. Name:

Date and Initials of person examining contents: AP 11-20-14

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11. ? Bottle does not indicate
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix:_____		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☑No	
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: JG Date: 11/20/14

SRF Review: JG Date: 11/21/14

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Place label here

WO#: 92226617

92226617

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Joyce Engineering-Greensboro	Report To:	Van Burbach	Attention:	Lercia Jones
Address:	2211 West Meadowview Rd	Copy To:	Alex Everhart	Company Name:	Joyce Engineering
	Greensboro, NC 27407		2211 W. Meadowview Rd, Greensboro, NC 27407	Address:	
Email To:	aeverhart@joyceengineering.com	Purchase Order No.		Pace Quote Reference:	
Phone:	(336) 323-0092 Fax:	Client Project ID:	OmniSource/Kernersville LF	Pace Project Manager:	Godwin, Kevin
Requested Due Date/TAT:	10 Day (Default)	Container Order Number:		Pace Profile #:	

Regulatory Agency	
State / Location	NC

ITEM#	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: Cobalt	Analyses Test: *Dissolved Cobalt (Lab Filtered)	Residual Chlorine (Y/N)	9232607
	MATRIX: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS																	Y				
1	3420-MW13	WT	G			11/19/14	15:05		2	1		1							X	X		001
2	3420-Field Blank	WT	G			11/19/14	15:20		1			1							X			002
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
*Hold dissolved sample until requested (unfiltered, unpreserved) kfs		11-20-14	1241	PACE	11-20-14	1241				
	PACE	11-20-14	1516	Pace	11-20-14	1516	3.2	Y	N	Y

SAMPLER NAME AND SIGNATURE		
PRINT Name of SAMPLER:	Dan Girdner	
SIGNATURE of SAMPLER:	Dan Girdner	DATE Signed: 11/19/14

DATE: 10/2/14

JOYCE ENGINEERING

GROUND WATER SAMPLING LOG

Project Name: OmniSource - Kernersville **Project No. /Task No.:** 799.1303.11.02

Well ID: MW-13 **Sampler(s):** A. Freeman

Well Location: Northeast corner of the property, across from MW-14

Well Diameter: 2 inches

Initial Depth to Water (DTW): 5.69 feet

Depth to Bottom (DTB): 26.15 feet

Water Column Thickness (WCT): 20.46 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 3.3 gallons

For 4" Well: WCT X 0.653 = _____ gallons

For THREE Well Volumes: WV X 3 = 9.9 gallons

Actual Amount Purged/Bailed: 9.9 gallons

Purged with: Disposable Bailer

Sampled with: Disposable Bailer

Depth to Water before Sampling: - feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	1116	17.6	7.78	502	3.31	AF
3.3	1120	15.2	6.62	590	>1000	AF
6.6	1124	15.0	6.59	576	>1000	AF
9.9	1128	14.8	6.28	555	>1000	AF
Before Sampling	1220	17.6	6.06	554	41.6	AF

Comments (weather conditions, odor, color, silt, etc.): The weather was cloudy with temperatures in the 70s on 10/02/14.

Signature: _____ **Date:** 10/2/14

QA/QC Sign Off: _____ **Date:** 10/20/14

DATE: 10/2/14

JOYCE ENGINEERING

GROUND WATER SAMPLING LOG

Project Name: OmniSource - Kernersville **Project No. /Task No.:** 799.1303.11.02

Well ID: MW-1R **Sampler(s):** A. Freeman

Well Location: Off the secondary road that runs behind the trail storage lot and southwest side of the facility.

Well Diameter: 2 inches

Initial Depth to Water (DTW): 39.56 feet

Depth to Bottom (DTB): 104.73 feet

Water Column Thickness (WCT): 65.17 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 10.6 gallons

For 4" Well: WCT X 0.653 = _____ gallons

For THREE Well Volumes: WV X 3 = 31.8 gallons

Actual Amount Purged/Bailed: 10.6 gallons

Purged with: Disposable Bailer

Sampled with: Disposable Bailer

Depth to Water before Sampling: - feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	1037	15.0	10.53	335	4.95	AF
10.6	1102	14.9	10.91	611	27.3	AF
Dry @ 10.6						
Before Sampling	1235	15.4	10.47	421	10.20	AF

Comments (weather conditions, odor, color, silt, etc.): The weather was cloudy with temperatures in the 70s on 10/02/14.

Signature: Amanda Freeman **Date:** 10/2/14

QA/QC Sign Off: [signature] **Date:** 10/17/14

DATE: 10/2/14

JOYCE ENGINEERING

GROUND WATER SAMPLING LOG

Project Name: OmniSource - Kernersville **Project No. /Task No.:** 799.1303.11.02

Well ID: MW-14 **Sampler(s):** A. Freeman

Well Location: Northeast corner of the property, across from MW-13

Well Diameter: 2 inches

Initial Depth to Water (DTW): 13.23 feet

Depth to Bottom (DTB): 33.68 feet

Water Column Thickness (WCT): 20.45 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 3.3 gallons

For 4" Well: WCT X 0.653 = _____ gallons

For THREE Well Volumes: WV X 3 = 9.9 gallons

Actual Amount Purged/Bailed: 9.9 gallons

Purged with: Disposable Bailer

Sampled with: Disposable Bailer

Depth to Water before Sampling: - feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	1136	16.1	6.36	164.9	4.90	AF
3.3	1140	15.0	5.61	189.5	19.5	AF
6.6	1145	14.2	5.49	178.2	35.7	AF
9.9	1150	14.7	5.46	167.5	15.4	AF
Before Sampling	1150	14.7	5.46	167.5	15.4	AF

Comments (weather conditions, odor, color, silt, etc.): The weather was cloudy with temperatures in the 70s on 10/02/14.

Signature: _____ **Date:** 10/2/14

QA/QC Sign Off: _____ **Date:** 10/17/14

DATE: 10/02/14

JOYCE ENGINEERING

SURFACE WATER MONITORING LOG

Project Name: OmniSource - Kernersville **Project/Task No.:** 799.1303.11.02

Surface Point ID: SW-2 **Sampler(s):** A. Freeman

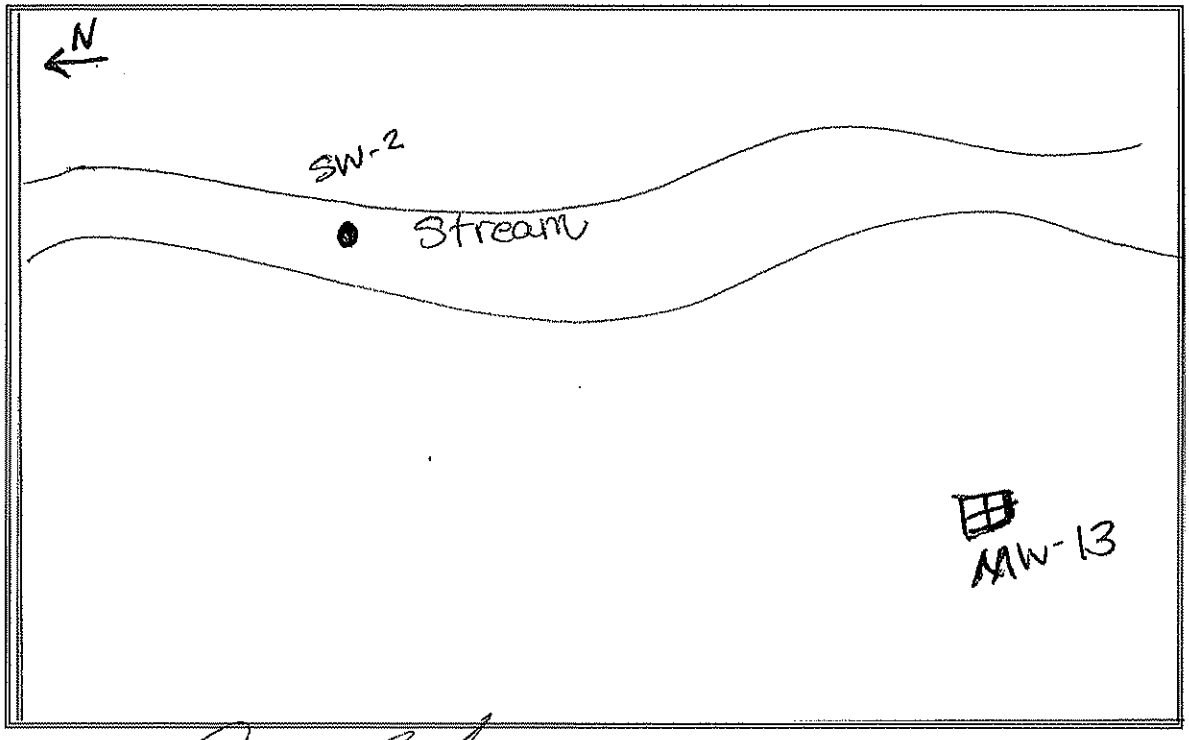
Location: Downstream from MW-13

Field Parameters:

Time of Sampling:	1210	
pH:	6.20	
Temperature:	17.3	**(°C)**
Conductivity:	416	**(µS)**
Turbidity:	15.3	**(ntu)**

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

The weather was cloudy with temperatures in the 70's.



Signature: _____ **Date:** 10/12/14

QA/QC Sign Off: _____ **Date:** 10/17/14

DATE: 10/02/14

JOYCE ENGINEERING

SURFACE WATER MONITORING LOG

Project Name: OmniSource - Kernersville **Project/Task No.:** 799.1301.12.02

Surface Point ID: SW-1 **Sampler(s):** A. Freeman

Location: Upstream of the facility down from the employee parking lot.

Field Parameters:

Time of Sampling: -

pH: -

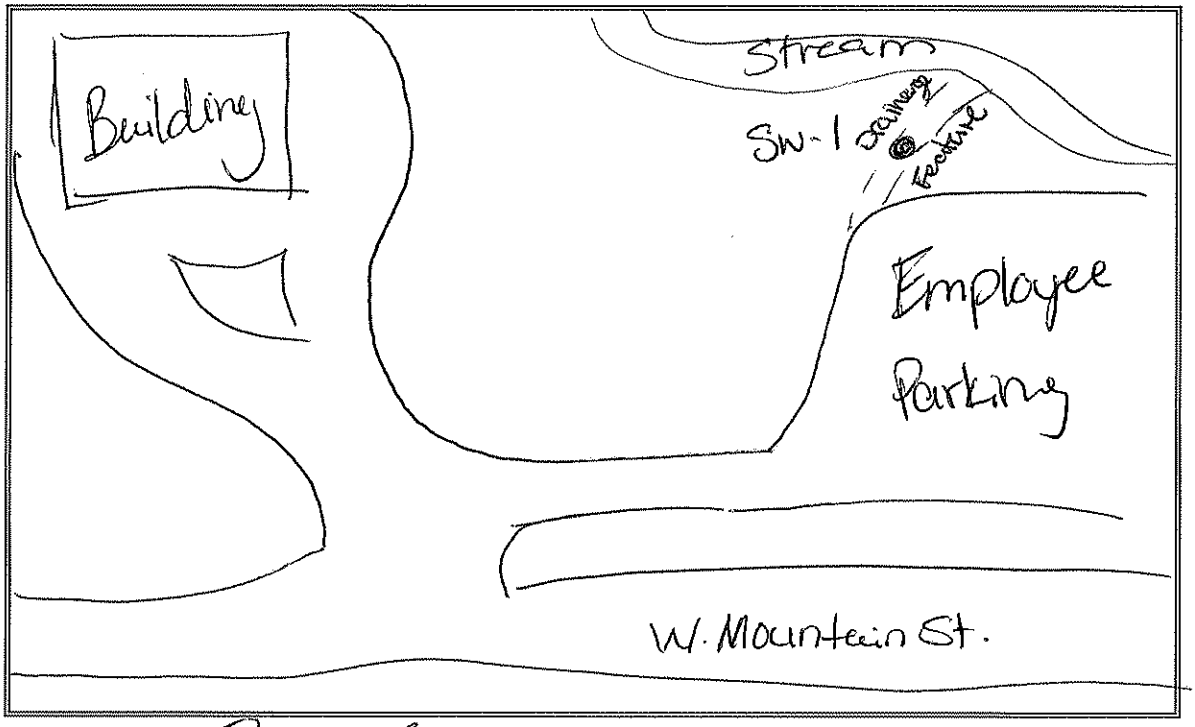
Temperature: - **(°C)**

Conductivity: - **(µS)**

Turbidity: - **(ntu)**

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

Sample point was dry.



Signature: [signature] **Date:** 10/12/14

QA/QC Sign Off: [signature] **Date:** 10/17/14

DATE: 10/2/14

JOYCE ENGINEERING

GROUND WATER SAMPLING LOG

Project Name: OmniSource - Kernersville **Project No. /Task No.:** 799.1303.11.02

Well ID: MW-12 **Sampler(s):** A. Freeman

Well Location: upstream from MW-13, at the end of the path through the woods

Well Diameter: 2 inches

Initial Depth to Water (DTW): 8.05 feet

Depth to Bottom (DTB): 28.82 feet

Water Column Thickness (WCT): 20.77 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 3.4 gallons

For 4" Well: WCT X 0.653 = _____ gallons

For THREE Well Volumes: WV X 3 = 10.2 gallons

Actual Amount Purged/Bailed: 10.2 gallons

Purged with: Disposable Bailer

Sampled with: Disposable Bailer

Depth to Water before Sampling: - feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	1251	17.6	7.35	305	2.18	AF
3.4	1256	15.3	6.23	297	13.09	AF
6.8	1300	14.9	5.85	291	37.2	AF
10.2	1304	15.5	5.60	290	43.5	AF
Before Sampling	1304	15.5	5.60	290	43.5	AF

Comments (weather conditions, odor, color, silt, etc.): The weather was cloudy with temperatures in the 70s on 10/02/14.

Signature: Amber L. Freeman **Date:** 10/2/14

QA/QC Sign Off: _____ **Date:** 10/17/14

DATE: 11/19/14

JOYCE ENGINEERING

GROUND WATER SAMPLING LOG

Project Name: OmniSource - Kernersville **Project No. /Task No.:** 799.1303.11.01

Well ID: MW-13 (re-sample) **Sampler(s):** D. Girdner

Well Location: Northeast corner of the property, across from MW-14

Well Diameter: 2 inches

Initial Depth to Water (DTW): 5.54 feet

Depth to Bottom (DTB): 26.15 feet

Water Column Thickness (WCT): 20.61 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 3.4 gallons

For 4" Well: WCT X 0.653 = _____ gallons

For THREE Well Volumes: WV X 3 = 10.2 gallons

Actual Amount Purged/Bailed: 10.3 gallons

Purged with: Disposable Bailer

Sampled with: Disposable Bailer

Depth to Water before Sampling: - feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	1045	15.2	6.51	-*	14.68	DG
3.4	1052	15.2	6.31	-	189	DG
6.8	1058	15.0	6.30	-	512	DG
10.2	1105	15.1	6.35	-	920	DG
Before Sampling	1505	13.9	6.25	-	25.0	DG

Comments (weather conditions, odor, color, silt, etc.): The weather was sunny & clear with temperatures in the upper 40's. Verification sample for Cobalt.

*Conductivity probe malfunctioned on-site, values were too low.

Signature: Daniel Girdner **Date:** 11/19/14

QA/QC Sign Off: [signature] **Date:** 12/1/14