PREPARED FOR:

TOWN OF KERNERSVILLE
PUBLIC WORKS DEPARTMENT
P.O. BOX 728
KERNERSVILLE, NORTH CAROLINA 27285-0728

TOWN OF KERNERSVILLE LANDFILL
PERMIT NO. 34-04

FIRST SEMIANNUAL WATER QUALITY MONITORING REPORT OF 2013

JUNE 2013

PREPARED BY:

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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

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

Name: T. Lawrence Hineline P.G. Phone: (336)-323-0092

E-mail: lhineline@joyceengineering.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Town of Kernersville Landfill	Freeman Road Kernersville, NC 27284	34-04	.0500	November 7, 2012

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.

T. Lawrence Hineline, P.G. | Technical Consultant | (336)-323-0092

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

Signature | Date

Affix NC Licensed/Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 2357 GEOLOGIST T. LAWRENCE HINELINE

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)

First Semiannual Water Quality Monitoring Report of 2013
Town of Kernersville Landfill
Forsyth County, North Carolina

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1.0 INTRODUCTION

1.1 Site Information

The Town of Kernersville Landfill is a closed, unlined municipal solid waste (MSW) landfill located on approximately 58.2 acres in Forsyth and Guilford Counties, NC, approximately 10 miles north of the City of Kernersville. The waste disposal area comprises approximately 13.8 acres. The property boundary is indicated on an excerpt from the 7.5 minutes USGA topographic map for Belews Creek, North Carolina (Figure No. 1). The facility was issued a Permit to Operate on May 15, 1985 and a letter of closure was issued on December 10, 1991.

The area surrounding the landfill is zoned residential/agricultural and contains open fields and woodlands. The landfill is separated to the North from the Waste Management Piedmont Landfill and Recycling Center Facility by Freeman Road. The landfill is bounded to the south by an unnamed tributary of Belews Creek.

1.2 Site Geology and Hydrogeology

The Town of Kernersville 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 Charlotte Belt Geologic Unit. The uppermost aquifer is unconfined and includes both saprolite and uppermost fractured bedrock, which are strongly connected. The groundwater level measurements taken on May 9, 2013 were used to construct the groundwater surface contours shown in Drawing No. 1. Historical static water levels are provided in Table 1. Groundwater flow at the site is generally to the southwest.

Using the hydraulic gradients along the flow paths shown on Drawing No. 1, the linear flow velocity (***V***) was estimated using the modified Darcy equation: $\boldsymbol{V=iK/n}$. The hydraulic gradient (***i***) is 0.03 ft/ft. An effective porosity value (***n***) of 30 percent was estimated and a hydraulic conductivity (***K***) 1.73 ft/day was estimated from slug tests completed by JOYCE in April 2013 at the Town of Kernersville Landfill. The calculated groundwater flow rate averages approximately 0.17 ft/day. A summary of the hydraulic gradients and linear flow velocities is provided in Table 2.

1.3 Regulatory Status

The Town of Kernersville 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) for municipal solid waste landfills (MSWLF) closed prior to October 9, 1993.

Based on the presence of constituents above 2L standards that could potentially be crossing the facility boundary, NCDENR requested that Kernersville submit a Groundwater Assessment Plan

to evaluate site conditions as they relate to groundwater quality. The Groundwater Assessment Report was submitted to NCDENR on May 13, 2013. The Groundwater Assessment Report concluded that, based on site hydrogeology, it is very unlikely that the site impacts above 2L standards are crossing the boundary-

2.0 FACILITY MONITORING PROGRAM

2.1 Groundwater Monitoring Program

The current groundwater compliance monitoring network includes 6 monitoring wells, including one upgradient well and five downgradient wells. These wells are summarized below, along with their current monitoring program status.

Monitoring Well	Classification	Monitoring Program	Total Depth from TOC (ft)
MW-1	Former Background	Water Levels Only	34.69
MW-2	Compliance	Detection (.0500)	13.18
MW-3S	Compliance	Detection (.0500)	24.00
MW-3D	Compliance	Detection (.0500)	56.96
MW-4	Compliance	Detection (.0500)	14.40
MW-5	Compliance	Detection (.0500)	11.36
MW-6	Background	Detection (.0500)	20.46

*TOC = Top of casing.

The locations of the monitoring wells are shown on Drawing No. 1. Existing monitoring well MW-6 serves as the background well for the facility. Monitoring well MW-6 replaced MW-1 as the facility's background well due to infrequent opportunities to sample the well as a result of low well volumes or the well being dry. Downgradient monitoring wells MW-2, -3S, -3D, -4, and -5 are monitored as part of the compliance network for the facility. MW-1 is monitored for water levels only, as conditions permit.

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 Town of Kernersville Landfill is monitored semiannually in conjunction with the groundwater sampling events. Samples are collected from three surface water monitoring points (SW-1, SW-2, and SW-3). The locations of the surface water monitoring points are shown on Drawing No. 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 point are summarized below, along with their current monitoring program status.

Surface Point	Classification	Monitoring Program
SW-1	Up Stream/Compliance	Surface Water
SW-2	Compliance	Surface Water
SW-3	Compliance	Surface Water

3.0 FIRST SEMIANNUAL SAMPLING EVENT OF 2013

3.1 Field Work and Visual Inspection

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

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

On May 9, 2013 Joyce Engineering (JOYCE) personnel visited the facility to purge and sample the facility's monitoring wells MW-2, MW-3S, MW-3D, MW-4 and MW-6. MW-5 was bent and was unable to be sampled. 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. MW-1 was measured for a static water level only.

Monitoring wells were purged and sampled using disposable bailers. Measurements of temperature, pH, specific conductivity, and turbidity were recorded in the site specific 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 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 samples were collected directly from stream flow, by lowering the prepared sample containers into the stream flow with the opening facing into the current flow. Care was taken not to overflow the sample containers (which could lead to preservative loss) and 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.

3.2 Laboratory Analysis and Quality Control

The May 2013 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 May 10, 2013 in good condition, properly preserved, and within analysis hold times.

In addition to samples collected for compliance monitoring at the Town of Kernersville Landfill, a Field Blank was collected by JOYCE personnel as part of the May 2013 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 May 2013 Field Blank was analyzed for the NCSWMR Appendix I constituents while the May 2013 Trip Blanks 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.

4.0 DATA ANALYSIS

4.1 Groundwater Data Analysis and Comparisons to Standards

Results from the May 2013 sampling event were received May 18, 2013 from Pace and are found in the Appendix. Analytical results from monitoring wells were compared directly to the NC 2L Groundwater Standards (NC 2L) or Groundwater Protection Standards (GWPS).

The following inorganic and organic constituents were detected at quantified concentrations in groundwater during the May 2013 sampling event. All concentrations are reported in micrograms per liter (µg/L). Concentrations with a "J" are considered to be estimated. Highlighted concentrations were detected above the NC 2L or GWPS in downgradient wells.

Constituent	NC2L/ (GWPS)	Background	Downgradient					Blanks
		MW-6	MW-2	MW-3S	MW-3D	MW-4	MW-5	
Barium	700	78.6 J	307	112	40.0 J	85.6 J	NS	ND
Benzene	1	ND	5.2	0.27 J	0.32 J	0.30 J	NS	ND
1,4-Dichlorobenzene	6	ND	3.6	2.0	3.1	2.3	NS	ND
1,1-Dichloroethane	6	ND	18.7	1.4 J	3.0 J	1.6 J	NS	ND
Cis-1,2-Dichloroethylene	70	ND	39.9	10.9	49.7	17.4	NS	ND
1,2-Dichloropropane	0.6	ND	3.3	0.51 J	0.96 J	0.45 J	NS	ND
Tetrachloroethylene	0.7	ND	1.9	ND	ND	ND	NS	ND
Trichloroethylene	3	ND	8.4	ND	ND	ND	NS	ND
Vinyl Chloride	0.03	ND	2.8	1.9	4.2	18.6	NS	ND

*ND = Not Detected above laboratory detection limits

In general, the organic and inorganic results are consistent with historical data. Historical groundwater data can be found in Table 3. The results, as reported by the laboratory, the laboratory quality/assurance/quality control information, and the chain-of-custody records are included in the Appendix.

4.2 Surface Water Data Analysis and Comparisons to Standards

There were no constituents detected at quantified concentrations or above the NC 2B standards in the surface waters during the May 2013 sampling event. In general, the results are consistent with historical data. Historical surface water data can be found in Table 4. The results, as reported by the laboratory, the laboratory quality/assurance/quality control information, and the chain-of-custody records are included in the Appendix.

5.0 CONCLUSION

Based on historical groundwater data, inorganic and organic constituents detected above their respective NC 2L and GWPS in samples collected during the May 2013 sampling event are consistent with previous events. In addition, there were no constituents detected at the surface water monitoring points above the NC 2B Standards. The Town of 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 November 2013.

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..

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Tables

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TABLE 1

SUMMARY OF HISTORICAL GROUNDWATER ELEVATIONS

Location:	Background		Downgradient				
	MW-1	MW-6	MW-2	MW-3S	MW-3D	MW-4	MW-5
TOC Elevation:	806.42	804.87	762.19	764.57	764.56	760.26	773.32
Well Depth:	34.69	20.46	13.18	24.00	56.96	14.40	11.36
30-Dec-09	772.45	786.66	759.16	751.54	752.79	754.33	769.21
01-Jun-10	773.45	788.32	758.90	750.76	752.63	753.90	769.69
16-Nov-10	773.55	787.93	759.14	750.98	752.59	753.74	769.81
29-Dec-10	773.29	787.37	758.83	749.82	752.45	753.68	769.56
29-Jun-11	773.10	786.81	758.38	750.54	752.16	753.41	769.73
01-Nov-11	771.92	785.10	758.49	754.73	751.90	753.08	769.63
01-May-12	771.88	785.32	758.54	750.86	752.34	753.55	769.55
07-Nov-12	771.65	DRY	758.20	750.30	751.61	752.87	768.57
09-May-13	769.95	787.56	759.20	752.52	753.24	754.44	-

Notes:

* All measurements given in feet above mean sea level (except well depths).

TABLE 2

SUMMARY OF ESTIMATED HYDRAULIC GRADIENT AND LINEAR VELOCITY

			May 2013				
GRADIENT CALCULATION SEGMENT	FLOW LINE LENGTH (feet)	FLOW DIRECTION	GROUND-WATER ELEV. (feet)	HORIZ. GRADIENT, i (ft/ft)	HYDRAULIC CONDUCTIVITY K (ft/day)	EFFECTIVE POROSITY n	LINEAR VELOCITY, V (ft/day)
i_1	1034	SW	785 755	0.03	1.73	0.30	0.17

Notes:
1. Hydraulic conductivities ("K") was estimated from slug test completed by JOYCE in April 2013
2. Velocity = Ki/n; assume homogeneous isotropic porous aquifer.

TABLE 3

SUMMARY OF HISTORICAL GROUNDWATER CONSTITUENTS

Constituent	Date	DL	RL	Concentration (µg/L)																
				Background			Downgradient												Blanks	
				MW-1	MW-6		MW-2		MW-3S		MW-3D		MW-4		MW-5					
Antimony	30-Dec-09	1.2	6.0	Dry	ND		5.4	B	ND		ND		4.5	B	NS		1.4	J
GWPS = 1.4 µg/L (10/23/07)	01-Jun-10	1.2	6.0	Dry	ND		ND		ND		ND		ND		NS		3.9	J
GWPS = 1 µg/L (8/1/10)	29-Dec-10	2.6	6.0	NS	ND		ND		ND		ND		ND		ND		ND	
	29-Jun-11	5.0	6.0	NS	ND		ND		ND		ND		ND		ND		ND	
	01-Nov-11	5.0	6.0	NS	ND		ND		ND		ND		ND		ND		ND	
	01-May-12	5.0	6.0	NS	ND		ND		ND		ND		ND		ND		ND	
	07-Nov-12	0.48	6.0	NS	Dry		ND		ND		ND		ND		NS		ND	
	09-May-13	5.0	6.0	NS	ND		ND		ND		ND		ND		NS		ND	
Arsenic	29-Jun-11	5.0	10.0	NS	ND		ND		ND		ND		ND		6.2	J	ND	
NC 2L = 10 µg/L (1/11/10)	01-Nov-11	5.0	10.0	NS	ND		ND		ND		ND		ND		ND		ND	
	01-May-12	5.0	10.0	NS	ND		ND		ND		ND		ND		ND		ND	
	07-Nov-12	0.094	10.0	NS	Dry		1.43	B	1.42	B	0.87	B	1.04	B	NS		1.0	J
	09-May-13	5.0	10.0	NS	ND		ND		ND		ND		ND		NS		ND	
Barium	30-Dec-09	1.1	100	Dry	74.1	J	496		178		18.2	J	89.0	J	NS		3.6	J
NC 2L = 700 µg/L (1/11/10)	01-Jun-10	1.1	100	Dry	58.1	J	326		187		22.2	J	94.9	J	NS		2.0	J
	29-Dec-10	0.20	100	NS	46.3	B	430		112		38.0	B	92.1	J	72.6	J	11.3	J
	29-Jun-11	5.0	100	NS	77.7	J	370		128		41.2	J	98.4	J	113		ND	
	01-Nov-11	5.0	100	NS	125		413		132		41.7	J	111		72.1	J	ND	
	01-May-12	5.0	100	NS	78.8	J	323		121		40.0	J	99.7	J	66.1	J	ND	
	07-Nov-12	0.39	100	NS	Dry		369		127		41.0	B	98.7	J	NS		12.2	J
	09-May-13	5.0	100	NS	78.6	J	307		112		40.0	J	85.6	J	NS		ND	
Beryllium	30-Dec-09	0.2	1.0	Dry	ND		0.5	J	ND		ND		ND		NS		ND	
GWPS = 4 µg/L (10/23/07)	01-Jun-10	0.2	1.0	Dry	0.6	J	0.7	J	ND		ND		ND		NS		ND	
	29-Dec-10	0.10	1.0	NS	ND		ND		ND		ND		ND		0.48	J	ND	
	29-Jun-11	1.0	1.0	NS	ND		ND		ND		ND		ND		ND		ND	
	01-Nov-11	1.0	1.0	NS	ND		ND		ND		ND		ND		ND		ND	
	01-May-12	1.0	1.0	NS	ND		ND		ND		ND		ND		ND		ND	
	07-Nov-12	0.049	1.00	NS	Dry		0.34	J	ND		ND		0.099	J	NS		ND	
	09-May-13	1.0	1.0	NS	ND		ND		ND		ND		ND		NS		ND	
Cadmium	30-Dec-09	0.2	1.0	Dry	ND		0.5	J	5.6		ND		ND		NS		ND	
NC 2L = 2 µg/L (1/11/10)	01-Jun-10	0.2	1.0	Dry	2.9		1.0	B	5.3		0.4	B	0.4	B	NS		0.4	J
	29-Dec-10	0.50	1.0	NS	ND		ND		ND		ND		ND		ND		ND	
	29-Jun-11	1.0	1.0	NS	ND		ND		ND		ND		ND		ND		ND	
	01-Nov-11	1.0	1.0	NS	ND		ND		ND		ND		ND		ND		ND	
	01-May-12	1.0	1.0	NS	ND		ND		ND		ND		ND		ND		ND	
	07-Nov-12	0.026	1.00	NS	Dry		0.15	J	ND		ND		0.043	J	NS		ND	
	09-May-13	1.0	1.0	NS	ND		ND		ND		ND		ND		NS		ND	
Chromium	30-Dec-09	0.7	10.0	Dry	ND		2.7	J	9.7	J	ND		3.1	J	NS		ND	
NC 2L = 10 µg/L (1/11/10)	01-Jun-10	0.7	10.0	Dry	3.5	J	1.6	J	12.4		1.2	J	3.2	J	NS		ND	
	29-Dec-10	0.40	10.0	NS	0.48	J	1.3	J	0.57	J	ND		5.5	J	3.8	J	ND	
	29-Jun-11	5.0	10.0	NS	ND		ND		ND		ND		ND		ND		ND	
	01-Nov-11	5.0	10.0	NS	ND		ND		ND		ND		10.3		ND		ND	
	01-May-12	5.0	10.0	NS	ND		ND		ND		ND		5.8	J	ND		ND	
	07-Nov-12	0.030	10.0	NS	Dry		0.71	J	0.12	B	0.094	B	7.31	J	NS		0.099	J
	09-May-13	5.0	10.0	NS	ND		ND		ND		ND		ND		NS		ND	
Cobalt	30-Dec-09	0.7	10.0	Dry	ND		6.4	J	11.2		ND		1.8	J	NS		ND	
GWPS = 70 µg/L (10/23/07)	01-Jun-10	0.7	10.0	Dry	1.8	J	2.5	J	8.5	J	ND		1.7	J	NS		ND	
GWPS = 1 µg/L (10/1/10)	29-Dec-10	0.60	10.0	NS	ND		4.9	J	1.7	J	ND		1.6	J	10.2		ND	
	29-Jun-11	5.0	10.0	NS	ND		ND		ND		ND		ND		9.9	J	ND	
	01-Nov-11	5.0	10.0	NS	ND		ND		ND		ND		ND		5.2	J	ND	
	01-May-12	5.0	10.0	NS	ND		ND		ND		ND		ND		13.9		ND	
	07-Nov-12	0.053	10.0	NS	Dry		1.98	J	3.89	J	0.43	B	2.02	J	NS		0.24	J
	09-May-13	5.0	10.0	NS	ND		ND		ND		ND		ND		NS		ND	

TABLE 3

SUMMARY OF HISTORICAL GROUNDWATER CONSTITUENTS

Constituent	Concentration (µg/L)																	
	Date	DL	RL	Background			Downgradient										Blanks	
				MW-1	MW-6		MW-2		MW-3S		MW-3D		MW-4		MW-5			
Copper	30-Dec-09	2.0	10.0	Dry	ND		ND		10.6		ND		1.5	J	NS		ND	
NC 2L = 1,000 µg/L (10/23/07)	01-Jun-10	2.0	10.0	Dry	12.2	B	3.3	B	33.2		3.9	B	6.8	B	NS		4.8	J
	29-Dec-10	0.30	10.0	NS	ND		ND		0.49	J	0.59	J	1.5	J	7.9	J	ND	
	29-Jun-11	5.0	10.0	NS	ND		ND		ND		ND		ND		16.6		ND	
	01-Nov-11	5.0	10.0	NS	ND		ND		ND		ND		5.4	J	ND		ND	
	01-May-12	5.0	10.0	NS	ND		ND		ND		ND		ND		ND		ND	
	07-Nov-12	0.093	10.0	NS	Dry		3.56	B	0.54	B	0.98	B	1.83	B	NS		1.23	J
	09-May-13	5.0	10.0	NS	ND		ND		ND		ND		ND		NS		ND	
Lead	30-Dec-09	2.0	10.0	Dry	ND		ND		10.2		ND		ND		NS		ND	
NC 2L = 15 µg/L (10/23/07)	01-Jun-10	2.0	10.0	Dry	9.1	B	8.2	B	8.7	B	3.0	B	3.9	B	NS		3.2	J
	29-Dec-10	4.0	10.0	NS	ND		ND		ND		ND		ND		6.5	J	ND	
	29-Jun-11	5.0	10.0	NS	ND		ND		ND		ND		ND		19.9		ND	
	01-Nov-11	5.0	10.0	NS	5.5	J	ND		ND		ND		ND		ND		ND	
	01-May-12	5.0	10.0	NS	ND		ND		ND		ND		ND		ND		ND	
	07-Nov-12	0.025	10.0	NS	Dry		1.00	B	0.091	B	0.066	B	1.12	B	NS		0.58	J
	09-May-13	5.0	10.0	NS	ND		ND		ND		ND		ND		NS		ND	
Nickel	30-Dec-09	0.6	50.0	Dry	ND		ND		8.1	J	1.8	J	1.6	J	NS		ND	
NC 2L = 100 µg/L (10/23/07)	01-Jun-10	0.6	50.0	Dry	ND		ND		6.0	J	ND		0.9	J	NS		ND	
	29-Dec-10	1.7	50.0	NS	ND		ND		ND		ND		ND		2.0	B	3.1	J
	29-Jun-11	5.0	50.0	NS	ND		ND		ND		ND		ND		ND		ND	
	01-Nov-11	5.0	50.0	NS	ND		ND		ND		ND		ND		ND		ND	
	01-May-12	5.0	50.0	NS	ND		ND		ND		ND		ND		ND		ND	
	07-Nov-12	0.26	50.0	NS	Dry		0.73	B	1.19	B	0.65	B	5.57	J	NS		0.84	J
	09-May-13	5.0	50.0	NS	ND		ND		ND		ND		ND		NS		ND	
Selenium	30-Dec-09	6.3	10.0	Dry	ND		ND		8.4	J	ND		ND		NS		ND	
NC 2L = 20 µg/L (1/11/10)	01-Jun-10	6.3	10.0	Dry	ND		ND		6.3	J	ND		ND		NS		ND	
	29-Dec-10	3.8	10.0	NS	ND		ND		ND		ND		ND		ND		ND	
	29-Jun-11	10.0	10.0	NS	ND		ND		ND		ND		ND		ND		ND	
	01-Nov-11	10.0	10.0	NS	ND		ND		ND		ND		ND		ND		ND	
	01-May-12	10.0	10.0	NS	ND		ND		ND		ND		ND		ND		ND	
	07-Nov-12	0.11	10.0	NS	Dry		0.16	J	0.38	J	0.20	J	0.25	J	NS		ND	
	09-May-13	10.0	10.0	NS	ND		ND		ND		ND		ND		NS		ND	
Silver	30-Dec-09	1.1	10.0	Dry	ND		1.7	B	2.2	B	ND		ND		NS		1.9	J
NC 2L = 20 µg/L (1/11/10)	01-Jun-10	1.1	10.0	Dry	ND		ND		ND		ND		ND		NS		ND	
	29-Dec-10	0.10	10.0	NS	ND		1.8	J	0.36	J	0.19	J	0.23	J	ND		ND	
	29-Jun-11	5.0	10.0	NS	ND		ND		ND		ND		ND		ND		ND	
	01-Nov-11	5.0	10.0	NS	ND		ND		ND		ND		ND		ND		ND	
	01-May-12	5.0	10.0	NS	ND		ND		ND		ND		ND		ND		ND	
	07-Nov-12	0.017	10.0	NS	Dry		0.18	J	ND		ND		0.078	J	NS		ND	
	09-May-13	5.0	10.0	NS	ND		ND		ND		ND		ND		NS		ND	
Thallium	30-Dec-09	2.7	5.5	Dry	ND		ND		ND		ND		ND		NS		3.7	J
GWPS = 0.28 µg/L (10/23/07)	01-Jun-10	2.7	5.5	Dry	ND		ND		ND		ND		ND		NS		ND	
GWPS = 0.2 µg/L (10/1/10)	29-Dec-10	3.0	5.5	NS	ND		3.2	J	ND		ND		4.8	J	ND		ND	
	29-Jun-11	5.4	5.5	NS	ND		ND		ND		ND		ND		ND		ND	
	01-Nov-11	5.4	5.5	NS	ND		ND		ND		ND		ND		ND		ND	
	01-May-12	5.4	5.5	NS	ND		ND		ND		ND		ND		ND		ND	
	07-Nov-12	0.060	5.50	NS	Dry		0.16	J	ND		ND		0.76	J	NS		ND	
	09-May-13	5.4	5.5	NS	ND		ND		ND		ND		ND		NS		ND	
Vanadium	30-Dec-09	0.4	25.0	Dry	ND		1.4	J	37.4		1.5	J	4.3	J	NS		ND	
GWPS = 3.5 µg/L (10/23/07)	01-Jun-10	0.4	25.0	Dry	1.2	J	3.4	J	84.2		1.4	J	4.8	J	NS		ND	
GWPS = 0.3 µg/L (10/1/10)	29-Dec-10	0.20	25.0	NS	1.2	B	2.8	J	2.3	J	1.6	J	5.5	J	14.5	J	0.26	J
	29-Jun-11	5.0	25.0	NS	ND		ND		ND		ND		ND		22.0	J	ND	
	01-Nov-11	5.0	25.0	NS	7.2	J	ND		ND		ND		12.0	J	7.2	J	ND	
	01-May-12	5.0	25.0	NS	ND		ND		ND		ND		7.2	J	7.6	J	ND	
	07-Nov-12	0.085	25.0	NS	Dry		2.48	J	2.02	J	2.35	J	4.55	J	NS		ND	
	09-May-13	5.0	25.0	NS	ND		ND		ND		ND		ND		NS		ND	

TABLE 3

SUMMARY OF HISTORICAL GROUNDWATER CONSTITUENTS

Constituent	Concentration (µg/L)																	
	Date	DL	RL	Background			Downgradient										Blanks	
				MW-1	MW-6		MW-2		MW-3S		MW-3D		MW-4		MW-5			
Zinc	30-Dec-09	2.7	10.0	Dry	ND		10.1	B	204		15.9	B	24.8	B	NS		5.8	J
NC 2L = 1,000 µg/L (1/11/10)	01-Jun-10	2.7	10.0	Dry	16.2		13.5		415		8.5	J	22.2		NS		ND	
	29-Dec-10	0.40	10.0	NS	12.2	B	15.8	B	8.9	B	ND		4.6	B	38.1	B	12.5	
	29-Jun-11	10.0	10.0	NS	ND		23.6	B	22.3	B	ND		15.5	B	91.2		10.5	
	01-Nov-11	10.0	10.0	NS	16.6		ND		40.0		ND		16.2		31.4		ND	
	01-May-12	10.0	10.0	NS	ND		ND		13.5		ND		10.2		12.0		ND	
	07-Nov-12	1.31	10.0	NS	Dry		8.61	J	5.20	J	3.98	J	4.65	J	NS		ND	
	09-May-13	10.0	10.0	NS	ND		ND		ND		ND		ND		NS		ND	
Acetone	29-Jun-11	2.2	100	NS	ND		2.3	B	2.4	B	3.9	B	ND		3.8	B	5.3	J
NC 2L = 6,000 µg/L (1/11/10)	01-Nov-11	2.2	100	NS	ND		ND		ND		ND		ND		ND		14.6	J
	01-May-12	2.2	100	NS	ND		ND		ND		ND		ND		ND		ND	
	07-Nov-12	0.193	100	NS	Dry		ND		ND		ND		ND		NS		ND	
	09-May-13	10.0	100	NS	ND		ND		ND		ND		ND		NS		12.0	J
Benzene	30-Dec-09	0.1	1.0	Dry	ND		8.4		0.3	J	0.4	J	0.3	J	NS		ND	
NC 2L = 1 µg/L (10/23/07)	01-Jun-10	0.1	1.0	Dry	ND		2.9		ND		ND		ND		NS		ND	
	29-Dec-10	0.25	1.0	NS	ND		8.1		ND		ND		ND		ND		ND	
	29-Jun-11	0.25	1.0	NS	ND		7.2		0.38	J	0.45	J	0.42	J	ND		ND	
	01-Nov-11	0.25	1.0	NS	ND		8.6		ND		ND		ND		ND		ND	
	01-May-12	0.25	1.0	NS	ND		6.7		0.36	J	0.45	J	0.42	J	ND		ND	
	07-Nov-12	0.111	1.0	NS	Dry		8.63		0.430	J	0.504	J	0.478	J	NS		ND	
	09-May-13	0.25	1.0	NS	ND		5.2		0.27	J	0.32	J	0.30	J	NS		ND	
Bromoform	09-May-13	0.26	3.0	NS	ND		ND		0.37	B	ND		ND		NS		0.37	J
NC 2L = µg/L 4 (10/23/07)																		
Chlorobenzene	30-Dec-09	0.1	3.0	Dry	ND		0.5	J	0.6	J	ND		ND		NS		ND	
NC 2L = 50 µg/L (10/23/07)	01-Jun-10	0.1	3.0	Dry	ND		ND		ND		ND		ND		NS		ND	
	29-Dec-10	0.23	3.0	NS	ND		0.61	J	ND		ND		ND		ND		ND	
	29-Jun-11	0.23	3.0	NS	ND		0.46	J	1.0	J	0.37	J	ND		ND		ND	
	01-Nov-11	0.23	3.0	NS	ND		0.59	J	1.1	J	0.37	J	ND		ND		ND	
	01-May-12	0.23	3.0	NS	ND		{0.42}	J	0.94	B	0.38	B	ND		ND		0.30 {ND}	J
	07-Nov-12	0.083	3.00	NS	Dry		0.468	J	1.30	J	0.476	J	ND		NS		ND	
	09-May-13	0.23	3.0	NS	ND		0.27	J	0.72	J	0.27	J	ND		NS		ND	
Chloroethane	30-Dec-09	0.1	10.0	Dry	ND		ND		0.5	J	0.5	J	ND		NS		0.1	J
NC 2L = 3,000 µg/L (1/11/10)	01-Jun-10	0.1	10.0	Dry	ND		ND		0.4	J	ND		ND		NS		ND	
	29-Dec-10	0.54	10.0	NS	ND		ND		ND		ND		ND		ND		ND	
	29-Jun-11	0.54	10.0	NS	ND		ND		0.77	J	ND		0.57	J	ND		ND	
	01-Nov-11	0.54	10.0	NS	ND		ND		0.79	J	ND		ND		ND		ND	
	01-May-12	0.54	10.0	NS	ND		ND		ND		ND		ND		ND		ND	
	07-Nov-12	0.235	10.0	NS	Dry		ND		ND		ND		ND		NS		ND	
	09-May-13	0.54	10.0	NS	ND		ND		ND		ND		ND		NS		ND	
1,4-Dichlorobenzene	30-Dec-09	0.1	1.0	Dry	ND		3.8		2.2		2.3		3.1		NS		ND	
NC 2L = 6 µg/L (1/11/10)	01-Jun-10	0.1	1.0	Dry	ND		1.2		0.9	J	ND		1.2		NS		ND	
	29-Dec-10	0.33	1.0	NS	ND		3.9		1.1		2.3		1.9		ND		ND	
	29-Jun-11	0.33	1.0	NS	ND		3.8		2.8		3.6		3.2		ND		ND	
	01-Nov-11	0.33	1.0	NS	ND		4.7		4.1		4.1		3.5		ND		ND	
	01-May-12	0.33	1.0	NS	ND		4.0		2.7		4.1		3.2		ND		ND	
	07-Nov-12	0.083	1.00	NS	Dry		5.12		2.93		4.08		3.64		NS		ND	
	09-May-13	0.33	1.0	NS	ND		3.6		2.0		3.1		2.3		NS		ND	
1,1-Dichloroethane	30-Dec-09	0.2	5.0	Dry	ND		22.8		1.9	J	4.0	J	2.4	J	NS		ND	
NC 2L = 6 µg/L (1/11/10)	01-Jun-10	0.2	5.0	Dry	ND		11.0		1.1	J	ND		1.2	J	NS		ND	
	29-Dec-10	0.32	5.0	NS	ND		28.2		2.4	J	4.1	J	2.6	J	ND		ND	
	29-Jun-11	0.32	5.0	NS	ND		25.0		2.5	J	3.9	J	2.6	J	ND		ND	
	01-Nov-11	0.32	5.0	NS	ND		27.2		2.3	J	4.0	J	2.3	J	ND		ND	
	01-May-12	0.32	5.0	NS	ND		22.6		2.0	J	3.8	J	2.0	J	ND		ND	
	07-Nov-12	0.208	5.0	NS	Dry		28.1		2.06	J	4.08	J	ND		NS		ND	
	09-May-13	0.32	5.0	NS	ND		18.7		1.4	J	3.0	J	1.6	J	NS		ND	

TABLE 3

SUMMARY OF HISTORICAL GROUNDWATER CONSTITUENTS

Constituent	Concentration (µg/L)																		
	Date	DL	RL	Background		Downgradient												Blanks
				MW-1	MW-6	MW-2		MW-3S		MW-3D		MW-4		MW-5		
1,2-Dichloroethane	30-Dec-09	0.1	1.0	Dry	ND	1.2		0.7	J	1.2		ND		NS		ND
NC 2L = 0.4 µg/L (1/11/10)	01-Jun-10	0.1	1.0	Dry	ND	ND		ND		ND		ND		NS		ND
	29-Dec-10	0.12	1.0	NS	ND	ND		0.82	J	1.1		ND		ND		ND
	29-Jun-11	0.12	1.0	NS	ND	0.76	J	0.86	J	1.3		ND		ND		ND
	01-Nov-11	0.12	1.0	NS	ND	0.95	J	ND		1.3		ND		ND		ND
	01-May-12	0.12	1.0	NS	ND	0.71	J	0.70	J	1.1		ND		ND		ND
	07-Nov-12	0.171	1.00	NS	Dry	ND		ND		ND		ND		NS		ND
	09-May-13	0.12	1.0	NS	ND	0.50	J	0.49	J	0.81	J	ND		NS		ND
1,1-Dichloroethylene	30-Dec-09	0.1	5.0	Dry	ND	0.4	J	ND		ND		ND		NS		ND
NC 2L = 7 µg/L (10/23/07)	01-Jun-10	0.1	5.0	Dry	ND	ND		ND		ND		ND		NS		ND
	29-Dec-10	0.56	5.0	NS	ND	ND		ND		ND		ND		ND		ND
	29-Jun-11	0.56	5.0	NS	ND	ND		ND		ND		ND		ND		ND
	01-Nov-11	0.56	5.0	NS	ND	ND		ND		ND		ND		ND		ND
	01-May-12	0.56	5.0	NS	ND	ND		ND		ND		ND		ND		ND
	07-Nov-12	0.208	5.00	NS	Dry	ND		ND		ND		ND		NS		ND
	09-May-13	0.56	5.0	NS	ND	ND		ND		ND		ND		NS		ND
Cis-1,2-Dichloroethylene	30-Dec-09	0.1	5.0	Dry	ND	68.2		11.0		51.0		21.8		NS		ND
NC 2L = 70 µg/L (10/23/07)	01-Jun-10	0.1	5.0	Dry	ND	23.0		7.6		ND		10.2		NS		ND
	29-Dec-10	0.19	5.0	NS	ND	66.7		16.8		56.7		24.1		ND		ND
	29-Jun-11	0.19	5.0	NS	ND	55.1		16.5		62.7		25.1		ND		ND
	01-Nov-11	0.19	5.0	NS	ND	59.4		15.2		59.3		23.2		ND		ND
	01-May-12	0.19	5.0	NS	ND	{48.7}		14.2		59.5		22.1		ND		0.21 {ND} J
	07-Nov-12	0.103	5.00	NS	Dry	59.7		13.6		71.3		26.4		NS		ND
	09-May-13	0.19	5.0	NS	ND	39.9		10.9		49.7		17.4		NS		ND
Trans-1,2-Dichloroethylene	30-Dec-09	0.1	5.0	Dry	ND	1.4	J	ND		0.2	J	0.2	J	NS		ND
NC 2L = 100 µg/L (10/23/07)	01-Jun-10	0.1	5.0	Dry	ND	0.6	J	ND		ND		ND		NS		ND
	29-Dec-10	0.49	5.0	NS	ND	1.7	J	ND		ND		ND		ND		ND
	29-Jun-11	0.49	5.0	NS	ND	1.5	J	ND		ND		ND		ND		ND
	01-Nov-11	0.49	5.0	NS	ND	1.6	J	ND		ND		ND		ND		ND
	01-May-12	0.49	5.0	NS	ND	1.4	J	ND		ND		ND		ND		ND
	07-Nov-12	0.077	5.00	NS	Dry	1.59	J	ND		ND		ND		NS		ND
	09-May-13	0.49	5.0	NS	ND	1.1	J	ND		ND		ND		NS		ND
1,2-Dichloropropane	30-Dec-09	0.1	1.0	Dry	ND	5.7		0.6	J	1.1		0.7	J	NS		ND
NC 2L = 0.6 µg/L (1/11/10)	01-Jun-10	0.1	1.0	Dry	ND	1.9		ND		ND		ND		NS		ND
	29-Dec-10	0.27	1.0	NS	ND	5.3		ND		ND		ND		ND		ND
	29-Jun-11	0.27	1.0	NS	ND	4.8		0.90	J	1.3		0.73	J	ND		ND
	01-Nov-11	0.27	1.0	NS	ND	4.9		0.76	J	1.3		ND		ND		ND
	01-May-12	0.27	1.0	NS	ND	4.4		0.76	J	1.4		0.62	J	ND		ND
	07-Nov-12	0.150	1.0	NS	Dry	4.93		ND		1.66		ND		NS		ND
	09-May-13	0.27	1.0	NS	ND	3.3		0.51	J	0.96	J	0.45	J	NS		ND

TABLE 3

SUMMARY OF HISTORICAL GROUNDWATER CONSTITUENTS

Constituent	Concentration (µg/L)										
	Date	DL	RL	Background		Downgradient					Blanks
				MW-1	MW-6	MW-2	MW-3S	MW-3D	MW-4	MW-5	
Ethyl Benzene	30-Dec-09	0.1	1.0	Dry	ND	ND	ND	0.4 J	ND	NS	ND
NC 2L = 600 µg/L (10/23/07)	01-Jun-10	0.1	1.0	Dry	ND	ND	ND	ND	ND	NS	ND
	29-Dec-10	0.30	1.0	NS	ND	ND	ND	ND	ND	ND	ND
	29-Jun-11	0.30	1.0	NS	ND	ND	ND	ND	ND	ND	ND
	01-Nov-11	0.30	1.0	NS	ND	ND	ND	ND	ND	ND	ND
	01-May-12	0.30	1.0	NS	ND	ND	ND	ND	ND	ND	ND
	07-Nov-12	0.109	1.00	NS	Dry	ND	ND	ND	ND	NS	ND
	09-May-13	0.30	1.0	NS	ND	ND	ND	ND	ND	NS	ND
Tetrachloroethylene	30-Dec-09	0.2	1.0	Dry	ND	1.2	ND	ND	ND	NS	ND
NC 2L = 0.7 µg/L (10/23/07)	01-Jun-10	0.2	1.0	Dry	ND	1.4	ND	ND	ND	NS	ND
	29-Dec-10	0.46	1.0	NS	ND	2.8	ND	ND	ND	ND	ND
	29-Jun-11	0.46	1.0	NS	ND	3.6	ND	ND	ND	ND	ND
	01-Nov-11	0.46	1.0	NS	ND	2.9	ND	ND	ND	ND	ND
	01-May-12	0.46	1.0	NS	ND	3.0	ND	ND	ND	ND	ND
	07-Nov-12	0.193	1.00	NS	Dry	2.52	ND	ND	ND	NS	ND
	09-May-13	0.46	1.0	NS	ND	1.9	ND	ND	ND	NS	ND
Toluene	29-Jun-11	0.26	1.0	NS	ND	ND	ND	ND	ND	0.76 J	ND
NC 2L = 600 µg/L (1/11/10)	01-Nov-11	0.26	1.0	NS	ND	ND	ND	ND	ND	ND	ND
	01-May-12	0.26	1.0	NS	ND	ND	ND	ND	ND	ND	ND
	07-Nov-12	0.122	1.00	NS	Dry	ND	ND	ND	ND	NS	ND
	09-May-13	0.26	1.0	NS	ND	ND	ND	ND	ND	NS	ND
Trichloroethylene	30-Dec-09	0.1	1.0	Dry	ND	8.0	ND	ND	0.2 J	NS	ND
NC 2L = 3 µg/L (1/11/10)	01-Jun-10	0.1	1.0	Dry	ND	6.4	ND	ND	ND	NS	ND
	29-Dec-10	0.47	1.0	NS	ND	10.1	ND	ND	ND	ND	ND
	29-Jun-11	0.47	1.0	NS	ND	14.6	ND	ND	ND	ND	ND
	01-Nov-11	0.47	1.0	NS	ND	10.2	ND	ND	ND	ND	ND
	01-May-12	0.47	1.0	NS	ND	11.6	ND	ND	ND	ND	ND
	07-Nov-12	0.161	1.00	NS	Dry	9.97	ND	ND	ND	NS	ND
	09-May-13	0.47	1.0	NS	ND	8.4	ND	ND	ND	NS	ND
Trichlororfluoromethane	29-Jun-11	0.20	1.0	NS	ND	0.95 J	ND	ND	ND	ND	ND
NC 2L = 2000 µg/L (1/11/10)	01-Nov-11	0.20	1.0	NS	ND	ND	ND	ND	ND	ND	ND
	01-May-12	0.20	1.0	NS	ND	ND	ND	ND	ND	ND	ND
	07-Nov-12	0.157	1.00	NS	Dry	ND	ND	ND	ND	NS	ND
	09-May-13	0.20	1.0	NS	ND	0.66 J	ND	ND	ND	NS	ND
Vinyl chloride	30-Dec-09	0.1	1.0	Dry	ND	4.0	2.8	4.1	26.2	NS	ND
NC 2L = 0.03 µg/L (1/11/10)	01-Jun-10	0.1	1.0	Dry	ND	2.2	3.0	ND	26.7	NS	ND
	29-Dec-10	0.62	1.0	NS	ND	3.5	2.4	4.7	25.6	ND	ND
	29-Jun-11	0.62	1.0	NS	ND	2.8	2.8	4.6	28.7	ND	ND
	01-Nov-11	0.62	1.0	NS	ND	5.1	2.6	6.9	24.0	ND	ND
	01-May-12	0.62	1.0	NS	ND	3.5	2.0	4.8	21.8	ND	ND
	07-Nov-12	0.127	1.00	NS	Dry	7.94	2.73	6.99	29.9	NS	ND
	09-May-13	0.62	1.0	NS	ND	2.8	1.9	4.2	18.6	NS	ND

TABLE 3

SUMMARY OF HISTORICAL GROUNDWATER CONSTITUENTS

Constituent	Concentration (µg/L)											
	Date	DL	RL	Background		Downgradient						Blanks
				MW-1	MW-6	MW-2	MW-3S	MW-3D		MW-4	MW-5	
Xylenes	30-Dec-09	0.3	4.0	Dry	ND	ND	ND	3.5	J	ND	NS	ND
NC 2L = 500 µg/L (1/11/10)	01-Jun-10	0.3	4.0	Dry	ND	ND	ND	ND		ND	NS	ND
	29-Dec-10	0.66	2.0	NS	ND	ND	ND	ND		ND	ND	ND
	29-Jun-11	0.66	2.0	NS	ND	ND	ND	ND		ND	ND	ND
	01-Nov-11	0.66	2.0	NS	ND	ND	ND	ND		ND	ND	ND
	01-May-12	0.66	2.0	NS	ND	0.89	J ND	ND		ND	ND	ND
	07-Nov-12	0.179	5.00	NS	Dry	ND	ND	ND		ND	NS	ND
	09-May-13	0.66	5.0	NS	ND	ND	ND	ND		ND	NS	ND

Notes:

1. RL = Reporting limit (NC SWSL).
2. All concentrations are in micrograms per liter (ug/L).
3. NC 2L Standard is the groundwater quality standard established under 15A NCAC 2L.
4. MW = Monitoring well.
5. Blanks = Quality control blanks, including trip, field, and laboratory blanks. The listed concentration is the highest value reported in all blanks associated with the samples.
6. ND = Not detected at the laboratory's detection limit.
7. J = Estimated value since concentration is less than the laboratory's reporting limit and greater than the detection limit.
8. B = Probable field and/or laboratory contamination since the concentration is within five times the concentration reported in the associated quality control blanks.
9. Shaded values are greater than the NC 2L Standard or GWPS.
10. DL = Detection limit.
11. GWPS = Groundwater Protection Standard (GWPS is used when the NC 2L Standard has not been established.)
12. Dry = Monitoring well was considered dry.
13. NS = Not sampled.

TABLE 4

SUMMARY OF HISTORICAL SURFACE WATER CONSTITUENTS

Constituent	Date	Concentration (µg/L)									
		DL	RL	Upstream SW-1		Downstream SW-2		Downstream SW-3		Blanks	
Antimony	30-Dec-09	1.2	6.0	1.5	B	6.4	B	NS		1.4	J
NC 2B = NE µg/L (05/01/07)	01-Jun-10	1.2	6.0	6.7	B	2.5	B	NS		3.9	J
	29-Dec-10	2.6	6.0	ND		ND		ND		ND	
	29-Jun-11	5.0	6.0	ND		ND		ND		ND	
	01-Nov-11	5.0	6.0	ND		ND		ND		ND	
	01-May-12	5.0	6.0	ND		ND		ND		ND	
	07-Nov-12	0.48	6.0	ND		ND		ND		ND	
	09-May-13	5.0	6.0	ND		ND		ND		ND	
Aresnic	07-Nov-12	0.094	10.0	0.17	B	0.26	B	0.24	B	1.0	J
NC 2B = 50 µg/L (05/01/07)	09-May-13	5.0	10.0	ND		ND		ND		ND	
Barium	30-Dec-09	1.1	100	25.1	J	34	J	NS		3.4	J
NC 2B = NE µg/L (05/01/07)	01-Jun-10	1.1	100	28.8	J	31.5	J	NS		2.0	J
	29-Dec-10	0.20	100	22.3	B	27.8	B	27.9	B	11.3	J
	29-Jun-11	5.0	100	40.0	J	39.4	J	39.3	J	ND	
	01-Nov-11	5.0	100	30.1	J	35.2	J	34.3	J	ND	
	01-May-12	5.0	100	66.1	J	35.4	J	33.3	J	ND	
	07-Nov-12	0.39	100	27.6	B	31.5	B	29.9	B	12.2	J
	09-May-13	5.0	100	33.6	J	33.8	J	32.6	J	ND	
Cadmium	30-Dec-09	0.2	1.0	ND		ND		NS		ND	
NC 2B = 2 µg/L (05/01/07)	01-Jun-10	0.2	1.0	0.9	B	0.4	B	NS		0.4	J
	29-Dec-10	0.50	1.0	ND		ND		ND		ND	
	29-Jun-11	1.0	1.0	ND		ND		ND		ND	
	01-Nov-11	1.0	1.0	ND		ND		ND		ND	
	01-May-12	1.0	1.0	ND		ND		ND		ND	
	07-Nov-12	0.026	1.000	ND		ND		ND		ND	
	09-May-13	1.0	1.0	ND		ND		ND		ND	
Chromium	30-Dec-09	0.7	10.0	ND		ND		NS		ND	
NC 2B = 50 µg/L (05/01/07)	01-Jun-10	0.7	10.0	1.7	J	1.2	J	NS		ND	
	29-Dec-10	0.40	10.0	0.69	J	0.53	J	0.41	J	ND	
	29-Jun-11	5.0	10.0	ND		ND		ND		ND	
	01-Nov-11	5.0	10.0	ND		ND		ND		ND	
	01-May-12	5.0	10.0	ND		ND		ND		ND	
	07-Nov-12	0.030	10.0	0.29	B	0.13	B	0.11	B	0.099	J
	09-May-13	5.0	10.0	ND		ND		ND		ND	
Cobalt	30-Dec-09	0.7	10.0	ND		ND		NS		ND	
NC 2B = NE µg/L (05/01/07)	01-Jun-10	0.7	10.0	ND		ND		NS		ND	
	29-Dec-10	0.60	10.0	ND		1.8	J	1.9	J	ND	
	29-Jun-11	5.0	10.0	ND		ND		ND		ND	
	01-Nov-11	5.0	10.0	ND		ND		ND		ND	
	01-May-12	5.0	10.0	ND		ND		ND		ND	
	07-Nov-12	0.053	10.0	0.34	B	0.76	B	0.76	B	0.24	J
	09-May-13	5.0	10.0	ND		ND		ND		ND	
Copper	30-Dec-09	2.0	10.0	ND		ND		NS		ND	
NC 2B = 7 µg/L (05/01/07)	01-Jun-10	2.0	10.0	6.9	B	5.8	B	NS		4.8	J
	29-Dec-10	0.30	10.0	0.38	J	ND		ND		ND	
	29-Jun-11	5.0	10.0	ND		ND		ND		ND	
	01-Nov-11	5.0	10.0	ND		ND		ND		ND	
	01-May-12	5.0	10.0	ND		ND		ND		ND	
	07-Nov-12	0.093	10.0	0.27	B	0.38	B	0.38	B	1.23	J
	09-May-13	5.0	10.0	ND		ND		ND		ND	

TABLE 4

SUMMARY OF HISTORICAL SURFACE WATER CONSTITUENTS

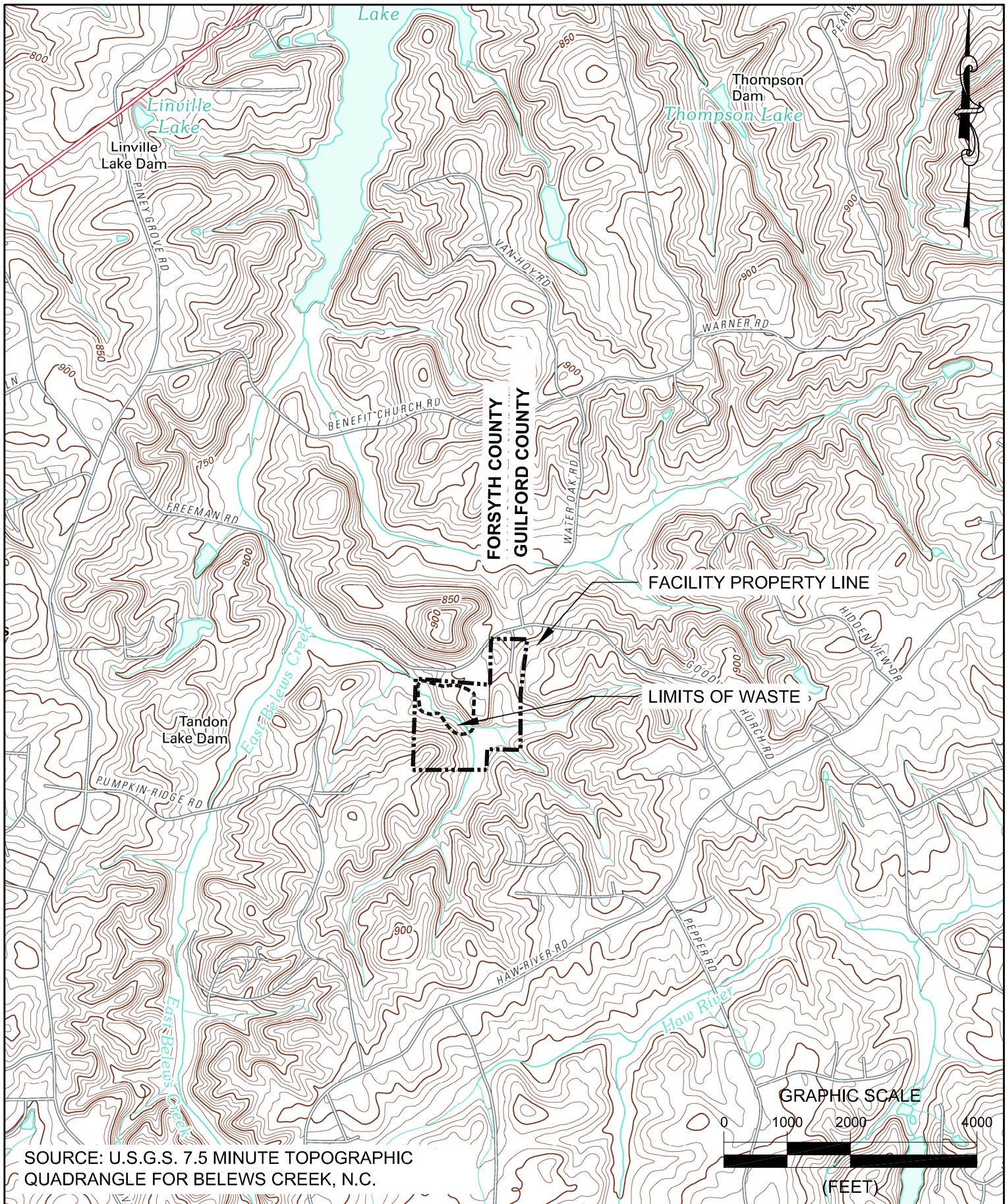
Constituent	Date	Concentration (µg/L)									
		DL	RL	Upstream SW-1		Downstream SW-2		Downstream SW-3		Blanks	
Lead	30-Dec-09	2.0	10.0	ND		ND		NS		ND	
NC 2B = 25 µg/L (05/01/07)	01-Jun-10	2.0	10.0	2.7	B	2.8	B	NS		3.2	J
	29-Dec-10	4.0	10.0	ND		ND		ND		ND	
	29-Jun-11	5.0	10.0	ND		ND		ND		ND	
	01-Nov-11	5.0	10.0	ND		ND		ND		ND	
	01-May-12	5.0	10.0	ND		ND		ND		ND	
	07-Nov-12	0.025	10.0	0.071	B	0.049	B	0.060	B	0.58	J
	09-May-13	5.0	10.0	ND		ND		ND		ND	
Nickel	07-Nov-12	0.26	50.0	0.46	B	0.39	B	0.35	B	0.84	J
NC 2B = 88 µg/L (05/01/07)	09-May-13	5.0	50.0	ND		ND		ND		ND	
Vanadium	30-Dec-09	0.4	25.0	2.0	J	0.8	J	NS		ND	
NC 2B = NE µg/L (05/01/07)	01-Jun-10	0.4	25.0	2.2	J	2.4	J	NS		ND	
	29-Dec-10	0.20	25.0	0.67	B	0.37	B	0.62	B	0.26	J
	29-Jun-11	5.0	25.0	ND		ND		ND		ND	
	01-Nov-11	5.0	25.0	ND		ND		ND		ND	
	01-May-12	5.0	25.0	ND		ND		ND		ND	
	07-Nov-12	0.085	25.0	0.63	J	0.44	J	0.52	J	ND	
	09-May-13	5.0	25.0	7.8	J	9.1	J	9.4	J	ND	
Zinc	30-Dec-09	2.7	10.0	6.7	B	ND		NS		4.7	J
NC 2B = 50 µg/L (05/01/07)	01-Jun-10	2.7	10.0	6.7	J	8.7	J	NS		ND	
	29-Dec-10	0.40	10.0	ND		1.2	B	1.2	B	12.5	
	29-Jun-11	10.0	10.0	ND		ND		ND		10.5	
	01-Nov-11	10.0	10.0	ND		ND		ND		ND	
	01-May-12	10.0	10.0	ND		ND		ND		ND	
	07-Nov-12	1.31	10.0	ND		ND		1.56	J	ND	
	09-May-13	10.0	10.0	ND		ND		ND		ND	
Acetone	29-Jun-11	2.2	100	2.8	B	3.3	B	4.4	B	5.3	J
NC 2B = NE µg/L (05/01/07)	01-Nov-11	2.2	100	ND		ND		ND		14.6	J
	01-May-12	2.2	100	ND		ND		ND		ND	
	07-Nov-12	0.193	100	ND		ND		ND		ND	
	09-May-13	10.0	100	ND		ND		ND		12.0	J
Cis-1,2-Dichloroethylene	30-Dec-09	0.1	5.0	ND		ND		NS		ND	
NC 2B = NE µg/L (05/01/07)	01-Jun-10	0.1	5.0	ND		ND		NS		ND	
	29-Dec-10	0.19	5.0	ND		0.39	J	ND		ND	
	29-Jun-11	0.19	5.0	0.26	J	0.30	J	0.33	J	ND	
	01-Nov-11	0.19	5.0	ND		ND		ND		ND	
	01-May-12	0.19	5.0	0.31	B	ND		ND		0.21 (ND)	J
	07-Nov-12	0.103	5.00	ND		ND		ND		ND	
	09-May-13	0.19	5.0	ND		ND		ND		ND	

Notes:

1. RL = Reporting limit (NC SWSL).
2. All concentrations are in micrograms per liter (ug/L).
3. NC 2B Standard is the surface water quality standard. Classification is currently Freshwater Aquatic Life.
4. NS = Not sampled.
5. SMP = Surface water monitoring point.
6. Blanks = Quality control blanks, including trip, field, and laboratory blanks. The listed concentration is the highest value reported in all blanks associated with the sa
7. ND = Not detected at the laboratory's detection limit.
8. J = Estimated value since concentration is less than the laboratory's reporting limit and greater than the detection limit.
9. B = Probable field and/or laboratory contamination since the concentration is within five times the concentration reported in the associated quality control blanks.
10. Shaded values are greater than the established NC 2B Surface Water Quality Standards.
11. DL = Detection limit.
12. NE = Not established.

Figure

Figure No. 1 Site Location Map



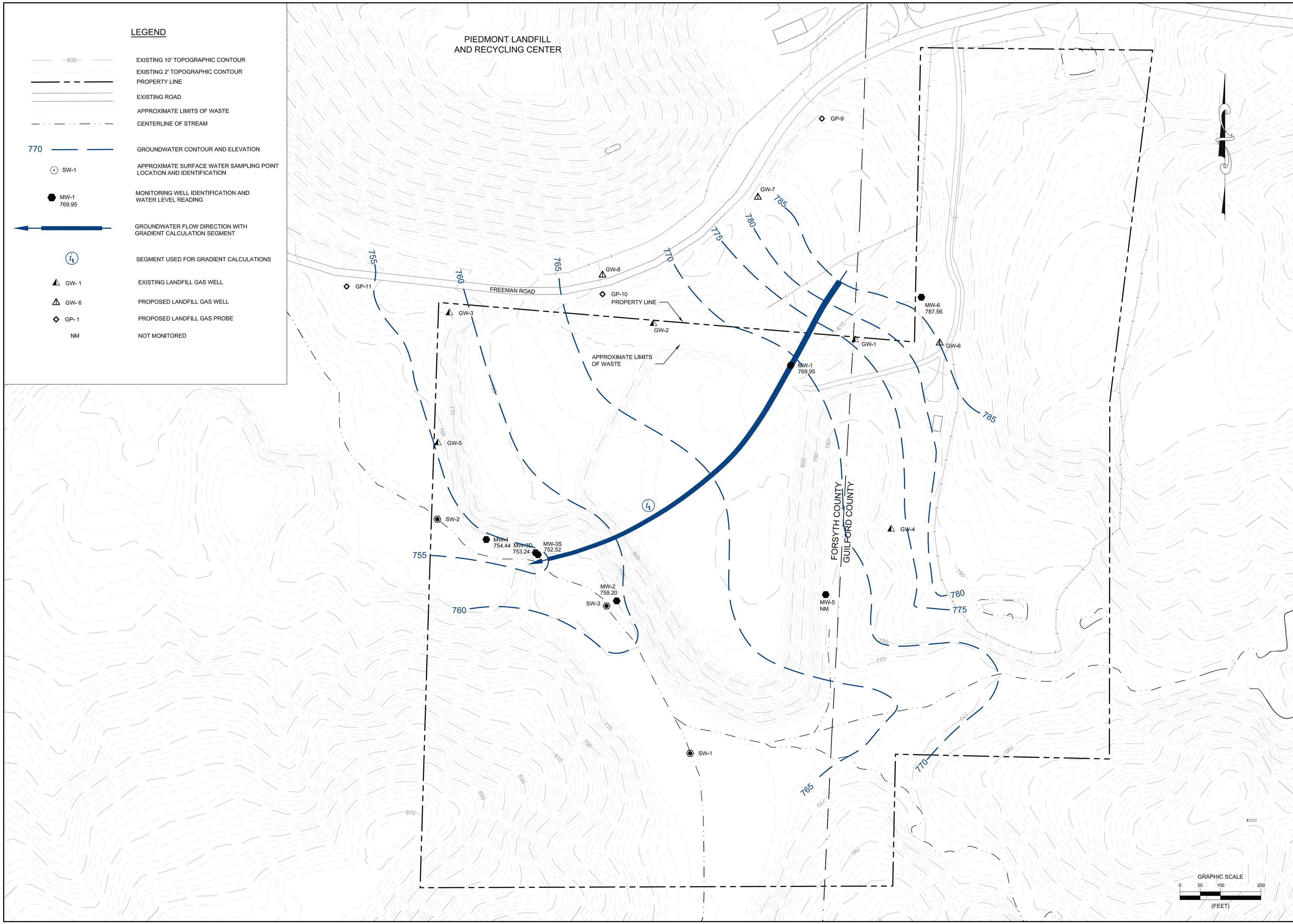
SOURCE: U.S.G.S. 7.5 MINUTE TOPOGRAPHIC QUADRANGLE FOR BELEWS CREEK, N.C.

TOWN OF KERNERSVILLE LANDFILL FORSYTH COUNTY, NORTH CAROLINA	JOYCE ENGINEERING 2211 W. MEADOWVIEW ROAD GREENSBORO, NC 27407 PHONE: (336) 323-0092	DESIGNED HRW DRAWN HRW CHECKED ACE APPROVED GVB DATE 01/02/13	SCALE AS SHOWN	PROJECT NO. 838.1201.12
SITE LOCATION MAP		© 2013 Joyce Engineering, Inc. All rights reserved.	NC CORP LIC: C-0782	FIGURE NO. 1

L:\KERNERSVILLE\GW EVENT\, 2012 SITE LOCATION MAP.dwg

Drawing

Drawing No. 1 Potentiometric Surface Contour Map



NO	BY	CK	APP	DATE	REVISIONS AND RECORD OF ISSUE

DESIGNED ACE
DRAWN RWH
CHECKED ACE
APPROVED GVB
DATE 05/29/13

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

TOWN OF KERNERSVILLE LANDFILL
FORSYTH COUNTY, NORTH CAROLINA

POTENTIOMETRIC SURFACE CONTOUR MAP
MAY 1, 2013

PROJECT NO.
838.1201.12

SCALE
AS SHOWN

DRAWING NO.
1

L:\KERNERSVILLE\GW EVENT\GW Surface Contour Map may,2013.dwg Layout=Layout1

Appendix

Laboratory Analytical Report and Field Data Logs

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

May 18, 2013

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

RE: Project: Town of Kernersville
Pace Project No.: 92157614

Dear Mr. Everhart:
Enclosed are the analytical results for sample(s) received by the laboratory on May 10, 2013. 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

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CERTIFICATIONS

Project: Town of Kernersville
Pace Project No.: 92157614

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

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SAMPLE SUMMARY

Project: Town of Kernersville
Pace Project No.: 92157614

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92157614001	**3404-MW2**	Water	05/09/13 10:58	05/10/13 13:25
92157614002	**3404-MW3S**	Water	05/09/13 13:15	05/10/13 13:25
92157614003	**3404-MW3D**	Water	05/09/13 12:05	05/10/13 13:25
92157614004	**3404-MW4**	Water	05/09/13 13:35	05/10/13 13:25
92157614005	**3404-MW6**	Water	05/09/13 14:02	05/10/13 13:25
92157614006	**3404-SW1**	Water	05/09/13 13:45	05/10/13 13:25
92157614007	**3404-SW2**	Water	05/09/13 12:41	05/10/13 13:25
92157614008	**3404-SW3**	Water	05/09/13 11:10	05/10/13 13:25
92157614009	**Field Blank**	Water	05/09/13 14:10	05/10/13 13:25
92157614010	**Trip Blank**	Water	05/09/13 07:30	05/10/13 13:25

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SAMPLE ANALYTE COUNT

Project: Town of Kernersville
Pace Project No.: 92157614

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92157614001	**3404-MW2**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	51	PASI-C
92157614002	**3404-MW3S**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	51	PASI-C
92157614003	**3404-MW3D**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	51	PASI-C
92157614004	**3404-MW4**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	51	PASI-C
92157614005	**3404-MW6**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	51	PASI-C
92157614006	**3404-SW1**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	51	PASI-C
92157614007	**3404-SW2**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	51	PASI-C
92157614008	**3404-SW3**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	51	PASI-C
92157614009	**Field Blank**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	51	PASI-C
92157614010	**Trip Blank**	EPA 8260	MCK	51	PASI-C

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HITS ONLY

Project: Town of Kernersville
Pace Project No.: 92157614

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92157614001	**3404-MW2**					
EPA 6010	Barium	307	ug/L	100	05/15/13 20:34	
EPA 8260	Benzene	5.2	ug/L	1.0	05/15/13 05:03	
EPA 8260	Chlorobenzene	0.27J	ug/L	3.0	05/15/13 05:03	
EPA 8260	1,4-Dichlorobenzene	3.6	ug/L	1.0	05/15/13 05:03	
EPA 8260	1,1-Dichloroethane	18.7	ug/L	5.0	05/15/13 05:03	
EPA 8260	1,2-Dichloroethane	0.50J	ug/L	1.0	05/15/13 05:03	
EPA 8260	cis-1,2-Dichloroethene	39.9	ug/L	5.0	05/15/13 05:03	
EPA 8260	trans-1,2-Dichloroethene	1.1J	ug/L	5.0	05/15/13 05:03	
EPA 8260	1,2-Dichloropropane	3.3	ug/L	1.0	05/15/13 05:03	
EPA 8260	Tetrachloroethene	1.9	ug/L	1.0	05/15/13 05:03	
EPA 8260	Trichloroethene	8.4	ug/L	1.0	05/15/13 05:03	
EPA 8260	Trichlorofluoromethane	0.66J	ug/L	1.0	05/15/13 05:03	
EPA 8260	Vinyl chloride	2.8	ug/L	1.0	05/15/13 05:03	
92157614002	**3404-MW3S**					
EPA 6010	Barium	112	ug/L	100	05/15/13 20:37	
EPA 8260	Benzene	0.27J	ug/L	1.0	05/15/13 05:19	
EPA 8260	Bromoform	0.37J	ug/L	3.0	05/15/13 05:19	
EPA 8260	Chlorobenzene	0.72J	ug/L	3.0	05/15/13 05:19	
EPA 8260	1,4-Dichlorobenzene	2.0	ug/L	1.0	05/15/13 05:19	
EPA 8260	1,1-Dichloroethane	1.4J	ug/L	5.0	05/15/13 05:19	
EPA 8260	1,2-Dichloroethane	0.49J	ug/L	1.0	05/15/13 05:19	
EPA 8260	cis-1,2-Dichloroethene	10.9	ug/L	5.0	05/15/13 05:19	
EPA 8260	1,2-Dichloropropane	0.51J	ug/L	1.0	05/15/13 05:19	
EPA 8260	Vinyl chloride	1.9	ug/L	1.0	05/15/13 05:19	
92157614003	**3404-MW3D**					
EPA 6010	Barium	40.0J	ug/L	100	05/15/13 20:40	
EPA 8260	Benzene	0.32J	ug/L	1.0	05/15/13 05:34	
EPA 8260	Chlorobenzene	0.27J	ug/L	3.0	05/15/13 05:34	
EPA 8260	1,4-Dichlorobenzene	3.1	ug/L	1.0	05/15/13 05:34	
EPA 8260	1,1-Dichloroethane	3.0J	ug/L	5.0	05/15/13 05:34	
EPA 8260	1,2-Dichloroethane	0.81J	ug/L	1.0	05/15/13 05:34	
EPA 8260	cis-1,2-Dichloroethene	49.7	ug/L	5.0	05/15/13 05:34	
EPA 8260	1,2-Dichloropropane	0.96J	ug/L	1.0	05/15/13 05:34	
EPA 8260	Vinyl chloride	4.2	ug/L	1.0	05/15/13 05:34	
92157614004	**3404-MW4**					
EPA 6010	Barium	85.6J	ug/L	100	05/15/13 20:43	
EPA 8260	Benzene	0.30J	ug/L	1.0	05/15/13 05:50	
EPA 8260	1,4-Dichlorobenzene	2.3	ug/L	1.0	05/15/13 05:50	
EPA 8260	1,1-Dichloroethane	1.6J	ug/L	5.0	05/15/13 05:50	
EPA 8260	cis-1,2-Dichloroethene	17.4	ug/L	5.0	05/15/13 05:50	
EPA 8260	1,2-Dichloropropane	0.45J	ug/L	1.0	05/15/13 05:50	
EPA 8260	Vinyl chloride	18.6	ug/L	1.0	05/15/13 05:50	
92157614005	**3404-MW6**					
EPA 6010	Barium	78.6J	ug/L	100	05/15/13 20:46	

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HITS ONLY

Project: Town of Kernersville
Pace Project No.: 92157614

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92157614006	**3404-SW1**					
EPA 6010	Barium	33.6J	ug/L	100	05/15/13 20:50	
EPA 6010	Vanadium	7.8J	ug/L	25.0	05/15/13 20:50	
92157614007	**3404-SW2**					
EPA 6010	Barium	33.8J	ug/L	100	05/15/13 20:53	
EPA 6010	Vanadium	9.1J	ug/L	25.0	05/15/13 20:53	
92157614008	**3404-SW3**					
EPA 6010	Barium	32.6J	ug/L	100	05/15/13 20:56	
EPA 6010	Vanadium	9.4J	ug/L	25.0	05/15/13 20:56	
92157614010	**Trip Blank**					
EPA 8260	Acetone	12.0J	ug/L	100	05/15/13 07:24	

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ANALYTICAL RESULTS

Project: Town of Kernersville
Pace Project No.: 92157614

Sample: 3404-MW2 **Lab ID: 92157614001** Collected: 05/09/13 10:58 Received: 05/10/13 13:25 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	05/14/13 15:00	05/15/13 20:34	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	05/14/13 15:00	05/15/13 20:34	7440-38-2	
Barium	**307**	ug/L	100	5.0	1	05/14/13 15:00	05/15/13 20:34	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	05/14/13 15:00	05/15/13 20:34	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	05/14/13 15:00	05/15/13 20:34	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	05/14/13 15:00	05/15/13 20:34	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	05/14/13 15:00	05/15/13 20:34	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	05/14/13 15:00	05/15/13 20:34	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	05/14/13 15:00	05/15/13 20:34	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	05/14/13 15:00	05/15/13 20:34	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	05/14/13 15:00	05/15/13 20:34	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	05/14/13 15:00	05/15/13 20:34	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	05/14/13 15:00	05/15/13 20:34	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	05/14/13 15:00	05/15/13 20:34	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	05/14/13 15:00	05/15/13 20:34	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		05/15/13 05:03	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		05/15/13 05:03	107-13-1	
Benzene	**5.2**	ug/L	1.0	0.25	1		05/15/13 05:03	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		05/15/13 05:03	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		05/15/13 05:03	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		05/15/13 05:03	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		05/15/13 05:03	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		05/15/13 05:03	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		05/15/13 05:03	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		05/15/13 05:03	56-23-5	
Chlorobenzene	**0.27J**	ug/L	3.0	0.23	1		05/15/13 05:03	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		05/15/13 05:03	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		05/15/13 05:03	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		05/15/13 05:03	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		05/15/13 05:03	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		05/15/13 05:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		05/15/13 05:03	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		05/15/13 05:03	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		05/15/13 05:03	95-50-1	
1,4-Dichlorobenzene	**3.6**	ug/L	1.0	0.33	1		05/15/13 05:03	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		05/15/13 05:03	110-57-6	
1,1-Dichloroethane	**18.7**	ug/L	5.0	0.32	1		05/15/13 05:03	75-34-3	
1,2-Dichloroethane	**0.50J**	ug/L	1.0	0.12	1		05/15/13 05:03	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		05/15/13 05:03	75-35-4	
cis-1,2-Dichloroethene	**39.9**	ug/L	5.0	0.19	1		05/15/13 05:03	156-59-2	
trans-1,2-Dichloroethene	**1.1J**	ug/L	5.0	0.49	1		05/15/13 05:03	156-60-5	
1,2-Dichloropropane	**3.3**	ug/L	1.0	0.27	1		05/15/13 05:03	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		05/15/13 05:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/15/13 05:03	10061-02-6	

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ANALYTICAL RESULTS

Project: Town of Kernersville
Pace Project No.: 92157614

Sample: 3404-MW2 **Lab ID: 92157614001** Collected: 05/09/13 10:58 Received: 05/10/13 13:25 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		05/15/13 05:03	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		05/15/13 05:03	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		05/15/13 05:03	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		05/15/13 05:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		05/15/13 05:03	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		05/15/13 05:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		05/15/13 05:03	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		05/15/13 05:03	79-34-5	
Tetrachloroethene	**1.9**	ug/L	1.0	0.46	1		05/15/13 05:03	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		05/15/13 05:03	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		05/15/13 05:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		05/15/13 05:03	79-00-5	
Trichloroethene	**8.4**	ug/L	1.0	0.47	1		05/15/13 05:03	79-01-6	
Trichlorofluoromethane	**0.66J**	ug/L	1.0	0.20	1		05/15/13 05:03	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		05/15/13 05:03	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		05/15/13 05:03	108-05-4	
Vinyl chloride	**2.8**	ug/L	1.0	0.62	1		05/15/13 05:03	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		05/15/13 05:03	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	76	%	70-130		1		05/15/13 05:03	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		05/15/13 05:03	1868-53-7	
1,2-Dichloroethane-d4 (S)	82	%	70-130		1		05/15/13 05:03	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		05/15/13 05:03	2037-26-5	

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ANALYTICAL RESULTS

Project: Town of Kernersville
Pace Project No.: 92157614

Sample: 3404-MW3S **Lab ID: 92157614002** Collected: 05/09/13 13:15 Received: 05/10/13 13:25 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	05/14/13 15:00	05/15/13 20:37	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	05/14/13 15:00	05/15/13 20:37	7440-38-2	
Barium	**112**	ug/L	100	5.0	1	05/14/13 15:00	05/15/13 20:37	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	05/14/13 15:00	05/15/13 20:37	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	05/14/13 15:00	05/15/13 20:37	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	05/14/13 15:00	05/15/13 20:37	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	05/14/13 15:00	05/15/13 20:37	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	05/14/13 15:00	05/15/13 20:37	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	05/14/13 15:00	05/15/13 20:37	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	05/14/13 15:00	05/15/13 20:37	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	05/14/13 15:00	05/15/13 20:37	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	05/14/13 15:00	05/15/13 20:37	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	05/14/13 15:00	05/15/13 20:37	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	05/14/13 15:00	05/15/13 20:37	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	05/14/13 15:00	05/15/13 20:37	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		05/15/13 05:19	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		05/15/13 05:19	107-13-1	
Benzene	**0.27J**	ug/L	1.0	0.25	1		05/15/13 05:19	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		05/15/13 05:19	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		05/15/13 05:19	75-27-4	
Bromoform	**0.37J**	ug/L	3.0	0.26	1		05/15/13 05:19	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		05/15/13 05:19	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		05/15/13 05:19	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		05/15/13 05:19	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		05/15/13 05:19	56-23-5	
Chlorobenzene	**0.72J**	ug/L	3.0	0.23	1		05/15/13 05:19	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		05/15/13 05:19	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		05/15/13 05:19	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		05/15/13 05:19	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		05/15/13 05:19	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		05/15/13 05:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		05/15/13 05:19	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		05/15/13 05:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		05/15/13 05:19	95-50-1	
1,4-Dichlorobenzene	**2.0**	ug/L	1.0	0.33	1		05/15/13 05:19	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		05/15/13 05:19	110-57-6	
1,1-Dichloroethane	**1.4J**	ug/L	5.0	0.32	1		05/15/13 05:19	75-34-3	
1,2-Dichloroethane	**0.49J**	ug/L	1.0	0.12	1		05/15/13 05:19	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		05/15/13 05:19	75-35-4	
cis-1,2-Dichloroethene	**10.9**	ug/L	5.0	0.19	1		05/15/13 05:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		05/15/13 05:19	156-60-5	
1,2-Dichloropropane	**0.51J**	ug/L	1.0	0.27	1		05/15/13 05:19	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		05/15/13 05:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/15/13 05:19	10061-02-6	

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ANALYTICAL RESULTS

Project: Town of Kernersville
Pace Project No.: 92157614

Sample: 3404-MW3S **Lab ID: 92157614002** Collected: 05/09/13 13:15 Received: 05/10/13 13:25 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		05/15/13 05:19	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		05/15/13 05:19	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		05/15/13 05:19	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		05/15/13 05:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		05/15/13 05:19	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		05/15/13 05:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		05/15/13 05:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		05/15/13 05:19	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		05/15/13 05:19	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		05/15/13 05:19	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		05/15/13 05:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		05/15/13 05:19	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		05/15/13 05:19	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		05/15/13 05:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		05/15/13 05:19	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		05/15/13 05:19	108-05-4	
Vinyl chloride	**1.9**	ug/L	1.0	0.62	1		05/15/13 05:19	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		05/15/13 05:19	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	78	%	70-130		1		05/15/13 05:19	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		05/15/13 05:19	1868-53-7	
1,2-Dichloroethane-d4 (S)	82	%	70-130		1		05/15/13 05:19	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		05/15/13 05:19	2037-26-5	

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ANALYTICAL RESULTS

Project: Town of Kernersville
Pace Project No.: 92157614

Sample: 3404-MW3D **Lab ID: 92157614003** Collected: 05/09/13 12:05 Received: 05/10/13 13:25 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	05/14/13 15:00	05/15/13 20:40	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	05/14/13 15:00	05/15/13 20:40	7440-38-2	
Barium	**40.0J**	ug/L	100	5.0	1	05/14/13 15:00	05/15/13 20:40	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	05/14/13 15:00	05/15/13 20:40	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	05/14/13 15:00	05/15/13 20:40	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	05/14/13 15:00	05/15/13 20:40	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	05/14/13 15:00	05/15/13 20:40	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	05/14/13 15:00	05/15/13 20:40	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	05/14/13 15:00	05/15/13 20:40	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	05/14/13 15:00	05/15/13 20:40	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	05/14/13 15:00	05/15/13 20:40	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	05/14/13 15:00	05/15/13 20:40	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	05/14/13 15:00	05/15/13 20:40	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	05/14/13 15:00	05/15/13 20:40	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	05/14/13 15:00	05/15/13 20:40	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		05/15/13 05:34	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		05/15/13 05:34	107-13-1	
Benzene	**0.32J**	ug/L	1.0	0.25	1		05/15/13 05:34	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		05/15/13 05:34	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		05/15/13 05:34	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		05/15/13 05:34	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		05/15/13 05:34	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		05/15/13 05:34	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		05/15/13 05:34	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		05/15/13 05:34	56-23-5	
Chlorobenzene	**0.27J**	ug/L	3.0	0.23	1		05/15/13 05:34	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		05/15/13 05:34	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		05/15/13 05:34	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		05/15/13 05:34	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		05/15/13 05:34	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		05/15/13 05:34	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		05/15/13 05:34	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		05/15/13 05:34	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		05/15/13 05:34	95-50-1	
1,4-Dichlorobenzene	**3.1**	ug/L	1.0	0.33	1		05/15/13 05:34	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		05/15/13 05:34	110-57-6	
1,1-Dichloroethane	**3.0J**	ug/L	5.0	0.32	1		05/15/13 05:34	75-34-3	
1,2-Dichloroethane	**0.81J**	ug/L	1.0	0.12	1		05/15/13 05:34	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		05/15/13 05:34	75-35-4	
cis-1,2-Dichloroethene	**49.7**	ug/L	5.0	0.19	1		05/15/13 05:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		05/15/13 05:34	156-60-5	
1,2-Dichloropropane	**0.96J**	ug/L	1.0	0.27	1		05/15/13 05:34	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		05/15/13 05:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/15/13 05:34	10061-02-6	

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ANALYTICAL RESULTS

Project: Town of Kernersville
Pace Project No.: 92157614

Sample: 3404-MW3D **Lab ID: 92157614003** Collected: 05/09/13 12:05 Received: 05/10/13 13:25 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		05/15/13 05:34	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		05/15/13 05:34	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		05/15/13 05:34	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		05/15/13 05:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		05/15/13 05:34	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		05/15/13 05:34	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		05/15/13 05:34	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		05/15/13 05:34	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		05/15/13 05:34	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		05/15/13 05:34	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		05/15/13 05:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		05/15/13 05:34	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		05/15/13 05:34	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		05/15/13 05:34	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		05/15/13 05:34	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		05/15/13 05:34	108-05-4	
Vinyl chloride	**4.2**	ug/L	1.0	0.62	1		05/15/13 05:34	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		05/15/13 05:34	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	77	%	70-130		1		05/15/13 05:34	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		05/15/13 05:34	1868-53-7	
1,2-Dichloroethane-d4 (S)	81	%	70-130		1		05/15/13 05:34	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		05/15/13 05:34	2037-26-5	

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ANALYTICAL RESULTS

Project: Town of Kernersville
Pace Project No.: 92157614

Sample: 3404-MW4 **Lab ID: 92157614004** Collected: 05/09/13 13:35 Received: 05/10/13 13:25 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	05/14/13 15:00	05/15/13 20:43	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	05/14/13 15:00	05/15/13 20:43	7440-38-2	
Barium	**85.6J**	ug/L	100	5.0	1	05/14/13 15:00	05/15/13 20:43	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	05/14/13 15:00	05/15/13 20:43	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	05/14/13 15:00	05/15/13 20:43	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	05/14/13 15:00	05/15/13 20:43	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	05/14/13 15:00	05/15/13 20:43	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	05/14/13 15:00	05/15/13 20:43	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	05/14/13 15:00	05/15/13 20:43	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	05/14/13 15:00	05/15/13 20:43	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	05/14/13 15:00	05/15/13 20:43	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	05/14/13 15:00	05/15/13 20:43	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	05/14/13 15:00	05/15/13 20:43	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	05/14/13 15:00	05/15/13 20:43	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	05/14/13 15:00	05/15/13 20:43	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		05/15/13 05:50	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		05/15/13 05:50	107-13-1	
Benzene	**0.30J**	ug/L	1.0	0.25	1		05/15/13 05:50	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		05/15/13 05:50	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		05/15/13 05:50	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		05/15/13 05:50	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		05/15/13 05:50	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		05/15/13 05:50	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		05/15/13 05:50	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		05/15/13 05:50	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		05/15/13 05:50	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		05/15/13 05:50	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		05/15/13 05:50	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		05/15/13 05:50	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		05/15/13 05:50	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		05/15/13 05:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		05/15/13 05:50	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		05/15/13 05:50	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		05/15/13 05:50	95-50-1	
1,4-Dichlorobenzene	**2.3**	ug/L	1.0	0.33	1		05/15/13 05:50	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		05/15/13 05:50	110-57-6	
1,1-Dichloroethane	**1.6J**	ug/L	5.0	0.32	1		05/15/13 05:50	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		05/15/13 05:50	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		05/15/13 05:50	75-35-4	
cis-1,2-Dichloroethene	**17.4**	ug/L	5.0	0.19	1		05/15/13 05:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		05/15/13 05:50	156-60-5	
1,2-Dichloropropane	**0.45J**	ug/L	1.0	0.27	1		05/15/13 05:50	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		05/15/13 05:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/15/13 05:50	10061-02-6	

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ANALYTICAL RESULTS

Project: Town of Kernersville
Pace Project No.: 92157614

Sample: 3404-MW4 **Lab ID: 92157614004** Collected: 05/09/13 13:35 Received: 05/10/13 13:25 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		05/15/13 05:50	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		05/15/13 05:50	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		05/15/13 05:50	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		05/15/13 05:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		05/15/13 05:50	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		05/15/13 05:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		05/15/13 05:50	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		05/15/13 05:50	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		05/15/13 05:50	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		05/15/13 05:50	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		05/15/13 05:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		05/15/13 05:50	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		05/15/13 05:50	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		05/15/13 05:50	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		05/15/13 05:50	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		05/15/13 05:50	108-05-4	
Vinyl chloride	**18.6**	ug/L	1.0	0.62	1		05/15/13 05:50	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		05/15/13 05:50	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	77	%	70-130		1		05/15/13 05:50	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		05/15/13 05:50	1868-53-7	
1,2-Dichloroethane-d4 (S)	83	%	70-130		1		05/15/13 05:50	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		05/15/13 05:50	2037-26-5	

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ANALYTICAL RESULTS

Project: Town of Kernersville
Pace Project No.: 92157614

Sample: 3404-MW6 **Lab ID: 92157614005** Collected: 05/09/13 14:02 Received: 05/10/13 13:25 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	05/14/13 15:00	05/15/13 20:46	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	05/14/13 15:00	05/15/13 20:46	7440-38-2	
Barium	**78.6J**	ug/L	100	5.0	1	05/14/13 15:00	05/15/13 20:46	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	05/14/13 15:00	05/15/13 20:46	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	05/14/13 15:00	05/15/13 20:46	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	05/14/13 15:00	05/15/13 20:46	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	05/14/13 15:00	05/15/13 20:46	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	05/14/13 15:00	05/15/13 20:46	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	05/14/13 15:00	05/15/13 20:46	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	05/14/13 15:00	05/15/13 20:46	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	05/14/13 15:00	05/15/13 20:46	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	05/14/13 15:00	05/15/13 20:46	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	05/14/13 15:00	05/15/13 20:46	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	05/14/13 15:00	05/15/13 20:46	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	05/14/13 15:00	05/15/13 20:46	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		05/15/13 06:05	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		05/15/13 06:05	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		05/15/13 06:05	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		05/15/13 06:05	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		05/15/13 06:05	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		05/15/13 06:05	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		05/15/13 06:05	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		05/15/13 06:05	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		05/15/13 06:05	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		05/15/13 06:05	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		05/15/13 06:05	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		05/15/13 06:05	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		05/15/13 06:05	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		05/15/13 06:05	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		05/15/13 06:05	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		05/15/13 06:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		05/15/13 06:05	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		05/15/13 06:05	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		05/15/13 06:05	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		05/15/13 06:05	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		05/15/13 06:05	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		05/15/13 06:05	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		05/15/13 06:05	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		05/15/13 06:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		05/15/13 06:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		05/15/13 06:05	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		05/15/13 06:05	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		05/15/13 06:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/15/13 06:05	10061-02-6	

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ANALYTICAL RESULTS

Project: Town of Kernersville
Pace Project No.: 92157614

Sample: 3404-MW6 **Lab ID: 92157614005** Collected: 05/09/13 14:02 Received: 05/10/13 13:25 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		05/15/13 06:05	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		05/15/13 06:05	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		05/15/13 06:05	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		05/15/13 06:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		05/15/13 06:05	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		05/15/13 06:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		05/15/13 06:05	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		05/15/13 06:05	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		05/15/13 06:05	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		05/15/13 06:05	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		05/15/13 06:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		05/15/13 06:05	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		05/15/13 06:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		05/15/13 06:05	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		05/15/13 06:05	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		05/15/13 06:05	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		05/15/13 06:05	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		05/15/13 06:05	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	69	%	70-130		1		05/15/13 06:05	460-00-4	S0
Dibromofluoromethane (S)	100	%	70-130		1		05/15/13 06:05	1868-53-7	
1,2-Dichloroethane-d4 (S)	82	%	70-130		1		05/15/13 06:05	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		05/15/13 06:05	2037-26-5	

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ANALYTICAL RESULTS

Project: Town of Kernersville
Pace Project No.: 92157614

Sample: 3404-SW1 **Lab ID: 92157614006** Collected: 05/09/13 13:45 Received: 05/10/13 13:25 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	05/14/13 15:00	05/15/13 20:50	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	05/14/13 15:00	05/15/13 20:50	7440-38-2	
Barium	**33.6J**	ug/L	100	5.0	1	05/14/13 15:00	05/15/13 20:50	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	05/14/13 15:00	05/15/13 20:50	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	05/14/13 15:00	05/15/13 20:50	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	05/14/13 15:00	05/15/13 20:50	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	05/14/13 15:00	05/15/13 20:50	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	05/14/13 15:00	05/15/13 20:50	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	05/14/13 15:00	05/15/13 20:50	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	05/14/13 15:00	05/15/13 20:50	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	05/14/13 15:00	05/15/13 20:50	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	05/14/13 15:00	05/15/13 20:50	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	05/14/13 15:00	05/15/13 20:50	7440-28-0	
Vanadium	**7.8J**	ug/L	25.0	5.0	1	05/14/13 15:00	05/15/13 20:50	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	05/14/13 15:00	05/15/13 20:50	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		05/15/13 06:21	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		05/15/13 06:21	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		05/15/13 06:21	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		05/15/13 06:21	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		05/15/13 06:21	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		05/15/13 06:21	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		05/15/13 06:21	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		05/15/13 06:21	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		05/15/13 06:21	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		05/15/13 06:21	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		05/15/13 06:21	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		05/15/13 06:21	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		05/15/13 06:21	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		05/15/13 06:21	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		05/15/13 06:21	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		05/15/13 06:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		05/15/13 06:21	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		05/15/13 06:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		05/15/13 06:21	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		05/15/13 06:21	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		05/15/13 06:21	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		05/15/13 06:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		05/15/13 06:21	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		05/15/13 06:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		05/15/13 06:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		05/15/13 06:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		05/15/13 06:21	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		05/15/13 06:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/15/13 06:21	10061-02-6	

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ANALYTICAL RESULTS

Project: Town of Kernersville
Pace Project No.: 92157614

Sample: 3404-SW1 **Lab ID: 92157614006** Collected: 05/09/13 13:45 Received: 05/10/13 13:25 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		05/15/13 06:21	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		05/15/13 06:21	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		05/15/13 06:21	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		05/15/13 06:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		05/15/13 06:21	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		05/15/13 06:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		05/15/13 06:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		05/15/13 06:21	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		05/15/13 06:21	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		05/15/13 06:21	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		05/15/13 06:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		05/15/13 06:21	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		05/15/13 06:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		05/15/13 06:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		05/15/13 06:21	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		05/15/13 06:21	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		05/15/13 06:21	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		05/15/13 06:21	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	73	%	70-130		1		05/15/13 06:21	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		05/15/13 06:21	1868-53-7	
1,2-Dichloroethane-d4 (S)	81	%	70-130		1		05/15/13 06:21	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		05/15/13 06:21	2037-26-5	

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ANALYTICAL RESULTS

Project: Town of Kernersville
Pace Project No.: 92157614

Sample: 3404-SW2 **Lab ID: 92157614007** Collected: 05/09/13 12:41 Received: 05/10/13 13:25 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	05/14/13 15:00	05/15/13 20:53	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	05/14/13 15:00	05/15/13 20:53	7440-38-2	
Barium	**33.8J**	ug/L	100	5.0	1	05/14/13 15:00	05/15/13 20:53	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	05/14/13 15:00	05/15/13 20:53	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	05/14/13 15:00	05/15/13 20:53	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	05/14/13 15:00	05/15/13 20:53	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	05/14/13 15:00	05/15/13 20:53	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	05/14/13 15:00	05/15/13 20:53	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	05/14/13 15:00	05/15/13 20:53	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	05/14/13 15:00	05/15/13 20:53	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	05/14/13 15:00	05/15/13 20:53	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	05/14/13 15:00	05/15/13 20:53	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	05/14/13 15:00	05/15/13 20:53	7440-28-0	
Vanadium	**9.1J**	ug/L	25.0	5.0	1	05/14/13 15:00	05/15/13 20:53	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	05/14/13 15:00	05/15/13 20:53	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		05/15/13 06:37	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		05/15/13 06:37	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		05/15/13 06:37	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		05/15/13 06:37	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		05/15/13 06:37	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		05/15/13 06:37	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		05/15/13 06:37	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		05/15/13 06:37	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		05/15/13 06:37	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		05/15/13 06:37	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		05/15/13 06:37	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		05/15/13 06:37	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		05/15/13 06:37	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		05/15/13 06:37	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		05/15/13 06:37	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		05/15/13 06:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		05/15/13 06:37	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		05/15/13 06:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		05/15/13 06:37	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		05/15/13 06:37	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		05/15/13 06:37	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		05/15/13 06:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		05/15/13 06:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		05/15/13 06:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		05/15/13 06:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		05/15/13 06:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		05/15/13 06:37	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		05/15/13 06:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/15/13 06:37	10061-02-6	

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ANALYTICAL RESULTS

Project: Town of Kernersville
Pace Project No.: 92157614

Sample: 3404-SW2 **Lab ID: 92157614007** Collected: 05/09/13 12:41 Received: 05/10/13 13:25 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		05/15/13 06:37	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		05/15/13 06:37	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		05/15/13 06:37	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		05/15/13 06:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		05/15/13 06:37	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		05/15/13 06:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		05/15/13 06:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		05/15/13 06:37	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		05/15/13 06:37	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		05/15/13 06:37	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		05/15/13 06:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		05/15/13 06:37	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		05/15/13 06:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		05/15/13 06:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		05/15/13 06:37	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		05/15/13 06:37	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		05/15/13 06:37	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		05/15/13 06:37	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	74	%	70-130		1		05/15/13 06:37	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		05/15/13 06:37	1868-53-7	
1,2-Dichloroethane-d4 (S)	82	%	70-130		1		05/15/13 06:37	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		05/15/13 06:37	2037-26-5	

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ANALYTICAL RESULTS

Project: Town of Kernersville
Pace Project No.: 92157614

Sample: 3404-SW3 **Lab ID: 92157614008** Collected: 05/09/13 11:10 Received: 05/10/13 13:25 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	05/14/13 15:00	05/15/13 20:56	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	05/14/13 15:00	05/15/13 20:56	7440-38-2	
Barium	**32.6J**	ug/L	100	5.0	1	05/14/13 15:00	05/15/13 20:56	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	05/14/13 15:00	05/15/13 20:56	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	05/14/13 15:00	05/15/13 20:56	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	05/14/13 15:00	05/15/13 20:56	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	05/14/13 15:00	05/15/13 20:56	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	05/14/13 15:00	05/15/13 20:56	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	05/14/13 15:00	05/15/13 20:56	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	05/14/13 15:00	05/15/13 20:56	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	05/14/13 15:00	05/15/13 20:56	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	05/14/13 15:00	05/15/13 20:56	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	05/14/13 15:00	05/15/13 20:56	7440-28-0	
Vanadium	**9.4J**	ug/L	25.0	5.0	1	05/14/13 15:00	05/15/13 20:56	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	05/14/13 15:00	05/15/13 20:56	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		05/15/13 06:52	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		05/15/13 06:52	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		05/15/13 06:52	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		05/15/13 06:52	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		05/15/13 06:52	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		05/15/13 06:52	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		05/15/13 06:52	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		05/15/13 06:52	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		05/15/13 06:52	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		05/15/13 06:52	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		05/15/13 06:52	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		05/15/13 06:52	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		05/15/13 06:52	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		05/15/13 06:52	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		05/15/13 06:52	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		05/15/13 06:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		05/15/13 06:52	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		05/15/13 06:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		05/15/13 06:52	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		05/15/13 06:52	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		05/15/13 06:52	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		05/15/13 06:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		05/15/13 06:52	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		05/15/13 06:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		05/15/13 06:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		05/15/13 06:52	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		05/15/13 06:52	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		05/15/13 06:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/15/13 06:52	10061-02-6	

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ANALYTICAL RESULTS

Project: Town of Kernersville
Pace Project No.: 92157614

Sample: 3404-SW3 **Lab ID: 92157614008** Collected: 05/09/13 11:10 Received: 05/10/13 13:25 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		05/15/13 06:52	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		05/15/13 06:52	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		05/15/13 06:52	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		05/15/13 06:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		05/15/13 06:52	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		05/15/13 06:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		05/15/13 06:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		05/15/13 06:52	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		05/15/13 06:52	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		05/15/13 06:52	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		05/15/13 06:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		05/15/13 06:52	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		05/15/13 06:52	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		05/15/13 06:52	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		05/15/13 06:52	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		05/15/13 06:52	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		05/15/13 06:52	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		05/15/13 06:52	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	72	%	70-130		1		05/15/13 06:52	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		05/15/13 06:52	1868-53-7	
1,2-Dichloroethane-d4 (S)	82	%	70-130		1		05/15/13 06:52	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		05/15/13 06:52	2037-26-5	

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ANALYTICAL RESULTS

Project: Town of Kernersville
Pace Project No.: 92157614

Sample: Field Blank **Lab ID: 92157614009** Collected: 05/09/13 14:10 Received: 05/10/13 13:25 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	05/14/13 15:00	05/15/13 20:59	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	05/14/13 15:00	05/15/13 20:59	7440-38-2	
Barium	ND	ug/L	100	5.0	1	05/14/13 15:00	05/15/13 20:59	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	05/14/13 15:00	05/15/13 20:59	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	05/14/13 15:00	05/15/13 20:59	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	05/14/13 15:00	05/15/13 20:59	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	05/14/13 15:00	05/15/13 20:59	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	05/14/13 15:00	05/15/13 20:59	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	05/14/13 15:00	05/15/13 20:59	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	05/14/13 15:00	05/15/13 20:59	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	05/14/13 15:00	05/15/13 20:59	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	05/14/13 15:00	05/15/13 20:59	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	05/14/13 15:00	05/15/13 20:59	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	05/14/13 15:00	05/15/13 20:59	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	05/14/13 15:00	05/15/13 20:59	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		05/15/13 07:08	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		05/15/13 07:08	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		05/15/13 07:08	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		05/15/13 07:08	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		05/15/13 07:08	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		05/15/13 07:08	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		05/15/13 07:08	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		05/15/13 07:08	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		05/15/13 07:08	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		05/15/13 07:08	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		05/15/13 07:08	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		05/15/13 07:08	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		05/15/13 07:08	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		05/15/13 07:08	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		05/15/13 07:08	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		05/15/13 07:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		05/15/13 07:08	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		05/15/13 07:08	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		05/15/13 07:08	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		05/15/13 07:08	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		05/15/13 07:08	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		05/15/13 07:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		05/15/13 07:08	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		05/15/13 07:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		05/15/13 07:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		05/15/13 07:08	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		05/15/13 07:08	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		05/15/13 07:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/15/13 07:08	10061-02-6	

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ANALYTICAL RESULTS

Project: Town of Kernersville
Pace Project No.: 92157614

Sample: Field Blank **Lab ID: 92157614009** Collected: 05/09/13 14:10 Received: 05/10/13 13:25 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		05/15/13 07:08	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		05/15/13 07:08	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		05/15/13 07:08	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		05/15/13 07:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		05/15/13 07:08	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		05/15/13 07:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		05/15/13 07:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		05/15/13 07:08	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		05/15/13 07:08	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		05/15/13 07:08	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		05/15/13 07:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		05/15/13 07:08	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		05/15/13 07:08	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		05/15/13 07:08	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		05/15/13 07:08	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		05/15/13 07:08	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		05/15/13 07:08	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		05/15/13 07:08	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	74	%	70-130		1		05/15/13 07:08	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		05/15/13 07:08	1868-53-7	
1,2-Dichloroethane-d4 (S)	82	%	70-130		1		05/15/13 07:08	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		05/15/13 07:08	2037-26-5	

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ANALYTICAL RESULTS

Project: Town of Kernersville
Pace Project No.: 92157614

Sample: Trip Blank **Lab ID: 92157614010** Collected: 05/09/13 07:30 Received: 05/10/13 13:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	**12.0J**	ug/L	100	10.0	1		05/15/13 07:24	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		05/15/13 07:24	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		05/15/13 07:24	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		05/15/13 07:24	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		05/15/13 07:24	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		05/15/13 07:24	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		05/15/13 07:24	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		05/15/13 07:24	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		05/15/13 07:24	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		05/15/13 07:24	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		05/15/13 07:24	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		05/15/13 07:24	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		05/15/13 07:24	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		05/15/13 07:24	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		05/15/13 07:24	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		05/15/13 07:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		05/15/13 07:24	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		05/15/13 07:24	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		05/15/13 07:24	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		05/15/13 07:24	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		05/15/13 07:24	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		05/15/13 07:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		05/15/13 07:24	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		05/15/13 07:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		05/15/13 07:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		05/15/13 07:24	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		05/15/13 07:24	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		05/15/13 07:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/15/13 07:24	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		05/15/13 07:24	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		05/15/13 07:24	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		05/15/13 07:24	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		05/15/13 07:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		05/15/13 07:24	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		05/15/13 07:24	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		05/15/13 07:24	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		05/15/13 07:24	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		05/15/13 07:24	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		05/15/13 07:24	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		05/15/13 07:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		05/15/13 07:24	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		05/15/13 07:24	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		05/15/13 07:24	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		05/15/13 07:24	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		05/15/13 07:24	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		05/15/13 07:24	75-01-4	

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ANALYTICAL RESULTS

Project: Town of Kernersville
Pace Project No.: 92157614

Sample: Trip Blank **Lab ID: 92157614010** Collected: 05/09/13 07:30 Received: 05/10/13 13:25 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		05/15/13 07:24	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	72	%	70-130		1		05/15/13 07:24	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		05/15/13 07:24	1868-53-7	
1,2-Dichloroethane-d4 (S)	81	%	70-130		1		05/15/13 07:24	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		05/15/13 07:24	2037-26-5	

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QUALITY CONTROL DATA

Project: Town of Kernersville
Pace Project No.: 92157614

QC Batch: MPRP/13299 | Analysis Method: EPA 6010
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 92157614001, 92157614002, 92157614003, 92157614004, 92157614005, 92157614006, 92157614007, 92157614008, 92157614009

METHOD BLANK: 973731 | Matrix: Water
Associated Lab Samples: 92157614001, 92157614002, 92157614003, 92157614004, 92157614005, 92157614006, 92157614007, 92157614008, 92157614009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	6.0	05/15/13 20:00	
Arsenic	ug/L	ND	10.0	05/15/13 20:00	
Barium	ug/L	ND	100	05/15/13 20:00	
Beryllium	ug/L	ND	1.0	05/15/13 20:00	
Cadmium	ug/L	ND	1.0	05/15/13 20:00	
Chromium	ug/L	ND	10.0	05/15/13 20:00	
Cobalt	ug/L	ND	10.0	05/15/13 20:00	
Copper	ug/L	ND	10.0	05/15/13 20:00	
Lead	ug/L	ND	10.0	05/15/13 20:00	
Nickel	ug/L	ND	50.0	05/15/13 20:00	
Selenium	ug/L	ND	10.0	05/15/13 20:00	
Silver	ug/L	ND	10.0	05/15/13 20:00	
Thallium	ug/L	ND	5.5	05/15/13 20:00	
Vanadium	ug/L	ND	25.0	05/15/13 20:00	
Zinc	ug/L	ND	10.0	05/15/13 20:00	

LABORATORY CONTROL SAMPLE: 973732

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	477	95	80-120	
Arsenic	ug/L	500	463	93	80-120	
Barium	ug/L	500	472	94	80-120	
Beryllium	ug/L	500	462	92	80-120	
Cadmium	ug/L	500	471	94	80-120	
Chromium	ug/L	500	466	93	80-120	
Cobalt	ug/L	500	471	94	80-120	
Copper	ug/L	500	470	94	80-120	
Lead	ug/L	500	473	95	80-120	
Nickel	ug/L	500	480	96	80-120	
Selenium	ug/L	500	460	92	80-120	
Silver	ug/L	250	238	95	80-120	
Thallium	ug/L	500	460	92	80-120	
Vanadium	ug/L	500	478	96	80-120	
Zinc	ug/L	500	475	95	80-120	

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QUALITY CONTROL DATA

Project: Town of Kernersville
Pace Project No.: 92157614

MATRIX SPIKE SAMPLE: 973733

Parameter	Units	92157434002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	471	94	75-125	
Arsenic	ug/L	ND	500	468	94	75-125	
Barium	ug/L	67.5	500	531	93	75-125	
Beryllium	ug/L	ND	500	473	94	75-125	
Cadmium	ug/L	ND	500	463	93	75-125	
Chromium	ug/L	ND	500	467	93	75-125	
Cobalt	ug/L	ND	500	472	94	75-125	
Copper	ug/L	ND	500	481	95	75-125	
Lead	ug/L	ND	500	440	88	75-125	
Nickel	ug/L	ND	500	476	95	75-125	
Selenium	ug/L	ND	500	460	92	75-125	
Silver	ug/L	ND	250	238	95	75-125	
Thallium	ug/L	ND	500	446	89	75-125	
Vanadium	ug/L	10.6	500	490	96	75-125	
Zinc	ug/L	14.4	500	489	95	75-125	

SAMPLE DUPLICATE: 973734

Parameter	Units	92157434003 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	ND	ND		25	
Arsenic	ug/L	ND	ND		25	
Barium	ug/L	131	128	2	25	
Beryllium	ug/L	ND	ND		25	
Cadmium	ug/L	ND	ND		25	
Chromium	ug/L	5.8	5.6J	4	25	
Cobalt	ug/L	ND	ND		25	
Copper	ug/L	ND	ND		25	
Lead	ug/L	ND	ND		25	
Nickel	ug/L	ND	ND		25	
Selenium	ug/L	ND	ND		25	
Silver	ug/L	ND	ND		25	
Thallium	ug/L	ND	ND		25	
Vanadium	ug/L	6.1	5.6J	8	25	
Zinc	ug/L	15.6	14.5	7	25	

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QUALITY CONTROL DATA

Project: Town of Kernersville
Pace Project No.: 92157614

QC Batch: MSV/22957 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 92157614001, 92157614002, 92157614003, 92157614004, 92157614005, 92157614006, 92157614007, 92157614008, 92157614009, 92157614010

METHOD BLANK: 973324 Matrix: Water
Associated Lab Samples: 92157614001, 92157614002, 92157614003, 92157614004, 92157614005, 92157614006, 92157614007, 92157614008, 92157614009, 92157614010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	05/15/13 04:47	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/15/13 04:47	
1,1,2,2-Tetrachloroethane	ug/L	ND	3.0	05/15/13 04:47	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/15/13 04:47	
1,1-Dichloroethane	ug/L	ND	5.0	05/15/13 04:47	
1,1-Dichloroethene	ug/L	ND	5.0	05/15/13 04:47	
1,2,3-Trichloropropane	ug/L	ND	1.0	05/15/13 04:47	
1,2-Dibromo-3-chloropropane	ug/L	ND	13.0	05/15/13 04:47	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/15/13 04:47	
1,2-Dichlorobenzene	ug/L	ND	5.0	05/15/13 04:47	
1,2-Dichloroethane	ug/L	ND	1.0	05/15/13 04:47	
1,2-Dichloropropane	ug/L	ND	1.0	05/15/13 04:47	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/15/13 04:47	
2-Butanone (MEK)	ug/L	ND	100	05/15/13 04:47	
2-Hexanone	ug/L	ND	50.0	05/15/13 04:47	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	05/15/13 04:47	
Acetone	ug/L	ND	100	05/15/13 04:47	
Acrylonitrile	ug/L	ND	200	05/15/13 04:47	
Benzene	ug/L	ND	1.0	05/15/13 04:47	
Bromochloromethane	ug/L	ND	3.0	05/15/13 04:47	
Bromodichloromethane	ug/L	ND	1.0	05/15/13 04:47	
Bromoform	ug/L	0.37J	3.0	05/15/13 04:47	
Bromomethane	ug/L	ND	10.0	05/15/13 04:47	
Carbon disulfide	ug/L	ND	100	05/15/13 04:47	
Carbon tetrachloride	ug/L	ND	1.0	05/15/13 04:47	
Chlorobenzene	ug/L	ND	3.0	05/15/13 04:47	
Chloroethane	ug/L	ND	10.0	05/15/13 04:47	
Chloroform	ug/L	ND	5.0	05/15/13 04:47	
Chloromethane	ug/L	ND	1.0	05/15/13 04:47	
cis-1,2-Dichloroethene	ug/L	ND	5.0	05/15/13 04:47	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/15/13 04:47	
Dibromochloromethane	ug/L	ND	3.0	05/15/13 04:47	
Dibromomethane	ug/L	ND	10.0	05/15/13 04:47	
Ethylbenzene	ug/L	ND	1.0	05/15/13 04:47	
Iodomethane	ug/L	ND	10.0	05/15/13 04:47	
Methylene Chloride	ug/L	ND	1.0	05/15/13 04:47	
Styrene	ug/L	ND	1.0	05/15/13 04:47	
Tetrachloroethene	ug/L	ND	1.0	05/15/13 04:47	
Toluene	ug/L	ND	1.0	05/15/13 04:47	
trans-1,2-Dichloroethene	ug/L	ND	5.0	05/15/13 04:47	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/15/13 04:47	

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QUALITY CONTROL DATA

Project: Town of Kernersville
Pace Project No.: 92157614

METHOD BLANK: 973324 Matrix: Water

Associated Lab Samples: 92157614001, 92157614002, 92157614003, 92157614004, 92157614005, 92157614006, 92157614007, 92157614008, 92157614009, 92157614010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,4-Dichloro-2-butene	ug/L	ND	100	05/15/13 04:47	
Trichloroethene	ug/L	ND	1.0	05/15/13 04:47	
Trichlorofluoromethane	ug/L	ND	1.0	05/15/13 04:47	
Vinyl acetate	ug/L	ND	50.0	05/15/13 04:47	
Vinyl chloride	ug/L	ND	1.0	05/15/13 04:47	
Xylene (Total)	ug/L	ND	5.0	05/15/13 04:47	
1,2-Dichloroethane-d4 (S)	%	80	70-130	05/15/13 04:47	
4-Bromofluorobenzene (S)	%	72	70-130	05/15/13 04:47	
Dibromofluoromethane (S)	%	101	70-130	05/15/13 04:47	
Toluene-d8 (S)	%	102	70-130	05/15/13 04:47	

LABORATORY CONTROL SAMPLE: 973325

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	38.4	77	70-130	
1,1,1-Trichloroethane	ug/L	50	39.7	79	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	37.6	75	70-130	
1,1,2-Trichloroethane	ug/L	50	39.5	79	70-130	
1,1-Dichloroethane	ug/L	50	40.2	80	70-130	
1,1-Dichloroethene	ug/L	50	40.8	82	70-132	
1,2,3-Trichloropropane	ug/L	50	38.8	78	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	35.8	72	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	38.7	77	70-130	
1,2-Dichlorobenzene	ug/L	50	38.4	77	70-130	
1,2-Dichloroethane	ug/L	50	36.3	73	70-130	
1,2-Dichloropropane	ug/L	50	41.9	84	70-130	
1,4-Dichlorobenzene	ug/L	50	37.5	75	70-130	
2-Butanone (MEK)	ug/L	100	82.0J	82	70-145	
2-Hexanone	ug/L	100	77.0	77	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	100	77.9J	78	70-140	
Acetone	ug/L	100	88.6J	89	50-175	
Acrylonitrile	ug/L	250	193J	77	70-143	
Benzene	ug/L	50	37.9	76	70-130	
Bromochloromethane	ug/L	50	39.9	80	70-130	
Bromodichloromethane	ug/L	50	37.9	76	70-130	
Bromoform	ug/L	50	36.1	72	70-130	
Bromomethane	ug/L	50	40.1	80	54-130	
Carbon disulfide	ug/L	50	37.7J	75	70-131	
Carbon tetrachloride	ug/L	50	38.0	76	70-132	
Chlorobenzene	ug/L	50	38.2	76	70-130	
Chloroethane	ug/L	50	48.0	96	64-134	
Chloroform	ug/L	50	38.1	76	70-130	
Chloromethane	ug/L	50	52.1	104	64-130	
cis-1,2-Dichloroethene	ug/L	50	39.0	78	70-131	

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QUALITY CONTROL DATA

Project: Town of Kernersville
Pace Project No.: 92157614

LABORATORY CONTROL SAMPLE: 973325

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,3-Dichloropropene	ug/L	50	39.7	79	70-130	
Dibromochloromethane	ug/L	50	37.3	75	70-130	
Dibromomethane	ug/L	50	38.0	76	70-131	
Ethylbenzene	ug/L	50	38.7	77	70-130	
Iodomethane	ug/L	100	80.6	81	49-180	
Methylene Chloride	ug/L	50	41.0	82	63-130	
Styrene	ug/L	50	39.8	80	70-130	
Tetrachloroethene	ug/L	50	37.5	75	70-130	
Toluene	ug/L	50	37.4	75	70-130	
trans-1,2-Dichloroethene	ug/L	50	39.2	78	70-130	
trans-1,3-Dichloropropene	ug/L	50	42.0	84	70-132	
trans-1,4-Dichloro-2-butene	ug/L	50	32.3J	65	70-141	L0
Trichloroethene	ug/L	50	37.3	75	70-130	
Trichlorofluoromethane	ug/L	50	43.3	87	62-133	
Vinyl acetate	ug/L	100	77.8	78	66-157	
Vinyl chloride	ug/L	50	37.1	74	69-130	
Xylene (Total)	ug/L	150	116	77	70-130	
1,2-Dichloroethane-d4 (S)	%			87	70-130	
4-Bromofluorobenzene (S)	%			78	70-130	
Dibromofluoromethane (S)	%			101	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 975118 975119

Parameter	Units	92157614007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	56.9	61.4	114	123	70-166	8	30	
Benzene	ug/L	ND	50	50	58.5	56.3	117	113	70-148	4	30	
Chlorobenzene	ug/L	ND	50	50	54.7	54.0	109	108	70-146	1	30	
Toluene	ug/L	ND	50	50	55.2	52.5	110	105	70-155	5	30	
Trichloroethene	ug/L	ND	50	50	60.7	59.6	121	119	69-151	2	30	
1,2-Dichloroethane-d4 (S)	%						102	103	70-130			
4-Bromofluorobenzene (S)	%						101	99	70-130			
Dibromofluoromethane (S)	%						103	102	70-130			
Toluene-d8 (S)	%						100	101	70-130			

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Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

QUALIFIERS

Project: Town of Kernersville
Pace Project No.: 92157614

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.

PRL - Pace Reporting 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.
S0	Surrogate recovery outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Town of Kernersville
Pace Project No.: 92157614

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92157614001	**3404-MW2**	EPA 3010	MPRP/13299	EPA 6010	ICP/12117
92157614002	**3404-MW3S**	EPA 3010	MPRP/13299	EPA 6010	ICP/12117
92157614003	**3404-MW3D**	EPA 3010	MPRP/13299	EPA 6010	ICP/12117
92157614004	**3404-MW4**	EPA 3010	MPRP/13299	EPA 6010	ICP/12117
92157614005	**3404-MW6**	EPA 3010	MPRP/13299	EPA 6010	ICP/12117
92157614006	**3404-SW1**	EPA 3010	MPRP/13299	EPA 6010	ICP/12117
92157614007	**3404-SW2**	EPA 3010	MPRP/13299	EPA 6010	ICP/12117
92157614008	**3404-SW3**	EPA 3010	MPRP/13299	EPA 6010	ICP/12117
92157614009	**Field Blank**	EPA 3010	MPRP/13299	EPA 6010	ICP/12117
92157614001	**3404-MW2**	EPA 8260	MSV/22957		
92157614002	**3404-MW3S**	EPA 8260	MSV/22957		
92157614003	**3404-MW3D**	EPA 8260	MSV/22957		
92157614004	**3404-MW4**	EPA 8260	MSV/22957		
92157614005	**3404-MW6**	EPA 8260	MSV/22957		
92157614006	**3404-SW1**	EPA 8260	MSV/22957		
92157614007	**3404-SW2**	EPA 8260	MSV/22957		
92157614008	**3404-SW3**	EPA 8260	MSV/22957		
92157614009	**Field Blank**	EPA 8260	MSV/22957		
92157614010	**Trip Blank**	EPA 8260	MSV/22957		

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Pace Analytical	Sample Condition Upon Receipt (SCUR)	Page 1 of 2
	Document Number: F-CHR-CS-03-rev.10	Issuing Authority: Pace Huntersville Quality Office

Client Name: Volue

Where Received: ☐ Huntersville ☐ Asheville ☐ Eden ☐ Raleigh

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 T1101 T1102 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor **T1101**: No Correction **T1102**: No Correction

Corrected Cooler Temp.: 4.8 **C** **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: TMS 5/10

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:	☐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: [signature] **Date:** 5/10/13

SRF Review: [signature] **Date:** 5/13/13

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#: 92157614

92157614

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
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: Alex Everhart
Copy To:
Purchase Order No.
Client Project ID: Town of Kernersville 838.1201.12
Container Order Number:

Section C
Invoice Information:

Attention: Lecia Jones
Company Name: Joyce Engineering
Address: 1604 Ownby Lane, Richmond, VA 23220

Regulatory Agency

State / Location
North Carolina

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	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test (Y/N)	NC Appendix I Metals	NC Appendix I VOC 8260's	Residual Chlorine (Y/N)	92157614
1	3404-MW2	WT	G			5/9/13	1058		4										X	X		001
2	3404-MW3S	WT	G				1315												X	X		002
3	3404-MW3D	WT	G				1205												X	X		003
4	3404-MW4	WT	G				1335												X	X		004
5	~~3404-MW5~~	~~WT~~	~~G~~																~~X~~	~~X~~		DAMAGED
6	3404-MW6	WT	G				1402												X	X		005
7	3404-SW1	WT	G				1345												X	X		006
8	3404-SW2	WT	G				1241												X	X		007
9	3404-SW3	WT	G				1110												X	X		008
10	Field Blank	WT	G				1410												X	X		009
11	Trip Blank	WT	G				0730		2											X		010
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
	Adam Cox/Joyce	5/10/13	10:59	[signature]	5/10/13	10:59
	[signature]	5/10/13	1325	[signature]	510	1325

SAMPLE CONDITIONS	TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	4.8	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: ADAM COX
SIGNATURE of SAMPLER: Adam Cox
DATE Signed: 5/9/13

DATE: 5/9/2013

JOYCE ENGINEERING

GROUND WATER SAMPLING LOG

Project Name: Town Of Kernersville **Project No./Task No.:** 838.1201.12.01

Well ID: MW-2 **Sampler(s):** A. Cox

Well Location: Back side of landfill along Creek

Well Diameter: 2 inches

Initial Depth to Water (DTW): 2.99 feet

Depth to Bottom (DTB): 13.18 feet

Water Column Thickness (WCT): 10.19 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 1.7 gallons

For 4" Well: WCT X 0.653 = - gallons

For THREE Well Volumes: WV X 3 = 5.1 gallons

Actual Amount Purged/Bailed: 5.1 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	1049	15.3	5.78	234.5	5.81	AC
1.7	1052	14.4	6.07	241.4	8.92	AC
3.4	1055	14.3	5.92	261.1	14.26	AC
5.1	1058	14.3	6.01	272.0	19.33	AC
Before Sampling	1058	14.3	6.01	272.0	19.33	AC

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

Sunny 70's

Signature: Adam Cox **Date:** 5/9/13

QA/QC Sign Off: [illegible] **Date:** 5/20/13

DATE: 5/9/2013

JOYCE ENGINEERING

GROUND WATER SAMPLING LOG

Project Name: Town Of Kernersville **Project No./Task No.:** 838.1201.12.01

Well ID: MW-3S **Sampler(s):** A. Cox

Well Location: Back side of landfill along Creek

Well Diameter: 2 inches

Initial Depth to Water (DTW): 12.05 feet

Depth to Bottom (DTB): 24.00 feet

Water Column Thickness (WCT): 11.95 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 1.9 gallons

For 4" Well: WCT X 0.653 = - gallons

For THREE Well Volumes: WV X 3 = 5.7 gallons

Actual Amount Purged/Bailed: 5.7 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	1218	16.1	6.49	306.6	9.56	AC
1.9	1222	15.1	6.25	295.1	12.48	AC
3.8	1226	15.0	6.51	294.3	20.4	AC
5.7	1231	15.5	6.73	298.2	22.5	AC
Before Sampling	1315	16.3	6.81	301.5	24.1	AC

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

Sunny 70's

Signature: Adam Cox **Date:** 5/9/13

QA/QC Sign Off: [illegible] **Date:** 5/20/13

DATE: 5/9/2013

JOYCE ENGINEERING

GROUND WATER SAMPLING LOG

Project Name: Town Of Kernersville **Project No./Task No.:** 838.1201.12.01

Well ID: MW-3D **Sampler(s):** A. Cox

Well Location: Back side of landfill along Creek

Well Diameter: 2 inches

Initial Depth to Water (DTW): 11.32 feet

Depth to Bottom (DTB): 56.96 feet

Water Column Thickness (WCT): 45.64 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 7.4 gallons

For 4" Well: WCT X 0.653 = - gallons

For THREE Well Volumes: WV X 3 = 22.2 gallons

Actual Amount Purged/Bailed: 22.2 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	1133	14.6	6.73	272.6	11.57	AC
7.4	1142	16.6	6.60	292.4	20.2	AC
14.8	1155	16.8	6.51	287.5	21.6	AC
22.2	1205	16.8	6.50	289.1	23.1	AC
Before Sampling	1205	16.8	6.50	289.1	23.1	AC

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

Sunny 70's

Signature: Adam Cox **Date:** 5/9/13

QA/QC Sign Off: [illegible] **Date:** 5/20/13

DATE: 5/9/2013

JOYCE ENGINEERING

GROUND WATER SAMPLING LOG

Project Name: Town Of Kernersville **Project No./Task No.:** 838.1201.12.01

Well ID: MW-4 **Sampler(s):** A. Cox

Well Location: Back side of landfill along Creek

Well Diameter: 2 inches

Initial Depth to Water (DTW): 5.82 feet

Depth to Bottom (DTB): 14.40 feet

Water Column Thickness (WCT): 8.58 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 1.4 gallons

For 4" Well: WCT X 0.653 = - gallons

For THREE Well Volumes: WV X 3 = 4.2 gallons

Actual Amount Purged/Bailed: 4.0 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	15.7	6.80	324.9	11.21	AC
1.4	1253	14.5	6.78	320.7	28.9	AC
2.8	1256	15.1	6.73	316.2	34.7	AC
Dry @ 4.0						AC
Before Sampling	1335	15.5	6.34	396.1	35.2	AC

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

Sunny 70's

Signature: Adam Cox **Date:** 5/9/13

QA/QC Sign Off: [illegible] **Date:** 5/20/13

DATE: 5/9/2013

JOYCE ENGINEERING

GROUND WATER SAMPLING LOG

Project Name: Town Of Kernersville **Project No./Task No.:** 838.1201.12.01

Well ID: MW-5 **Sampler(s):** A. Cox

Well Location: Down hill between old cell and shooting range.

Well Diameter: 2 inches

Initial Depth to Water (DTW): - feet

Depth to Bottom (DTB): 11.36 feet

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

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = - gallons

For 4" Well: WCT X 0.653 = - gallons

For THREE Well Volumes: WV X 3 = - gallons

Actual Amount Purged/Bailed: - 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						
Before Sampling						

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

Well is bent

Signature: Adam Cox **Date:** 5/9/13

QA/QC Sign Off: [illegible] **Date:** 5/20/13

DATE: 5/9/2013

JOYCE ENGINEERING

GROUND WATER SAMPLING LOG

Project Name: Town Of Kernersville **Project No./Task No.:** 838.1201.12.01

Well ID: MW-6 **Sampler(s):** A. Cox

Well Location: On Right side of road behind old scale house location.

Well Diameter: 2 inches

Initial Depth to Water (DTW): 17.31 feet

Depth to Bottom (DTB): 20.46 feet

Water Column Thickness (WCT): 3.15 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 0.5 gallons

For 4" Well: WCT X 0.653 = - gallons

For THREE Well Volumes: WV X 3 = 1.5 gallons

Actual Amount Purged/Bailed: 1.5 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	0957	14.5	5.57	62.2	7.68	AC
0.5	0959	14.6	5.01	39.2	9.43	AC
1.0	1002	14.4	4.59	34.0	10.11	AC
1.5	1005	13.2	4.52	32.7	10.19	AC
Before Sampling	1402	16.4	5.83	44.2	12.34	AC

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

Sunny 70's

Field Blank @ 1410

Signature: Adam Cox **Date:** 5/9/13

QA/QC Sign Off: [illegible] **Date:** 5/20/13

DATE: 5/9/2013

JOYCE ENGINEERING

SURFACE WATER MONITORING LOG

Project Name: Town Of Kernersville **Project/Task No.:** 838.1201.12.01

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

Location: Upstream of MW-2 before 2 creeks merge.

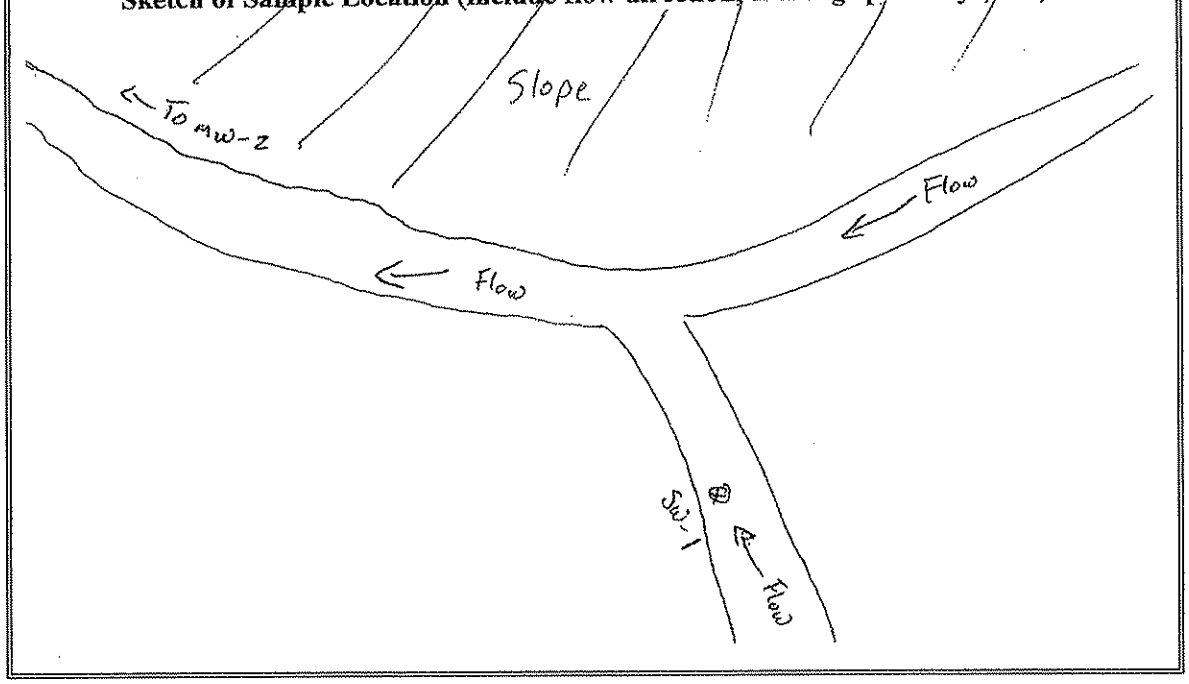
Field Parameters:

Time of Sampling:	1345	
pH:	7.77	
Temperature:	17.8	(°C)
Conductivity:	56.5	(µS)
Turbidity:	9.82	(ntu)

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

Sunny 70's

Sketch of Sample Location (include flow direction, drainage pathways, etc.):



Signature: Adam Cox **Date:** 5/9/13

QA/QC Sign Off: [illegible] **Date:** 5/20/13

DATE: 5/9/2013

JOYCE ENGINEERING

SURFACE WATER MONITORING LOG

Project Name: Town Of Kernersville **Project/Task No.:** 838.1201.12.01

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

Location: Down Stream of MW-4 at property line.

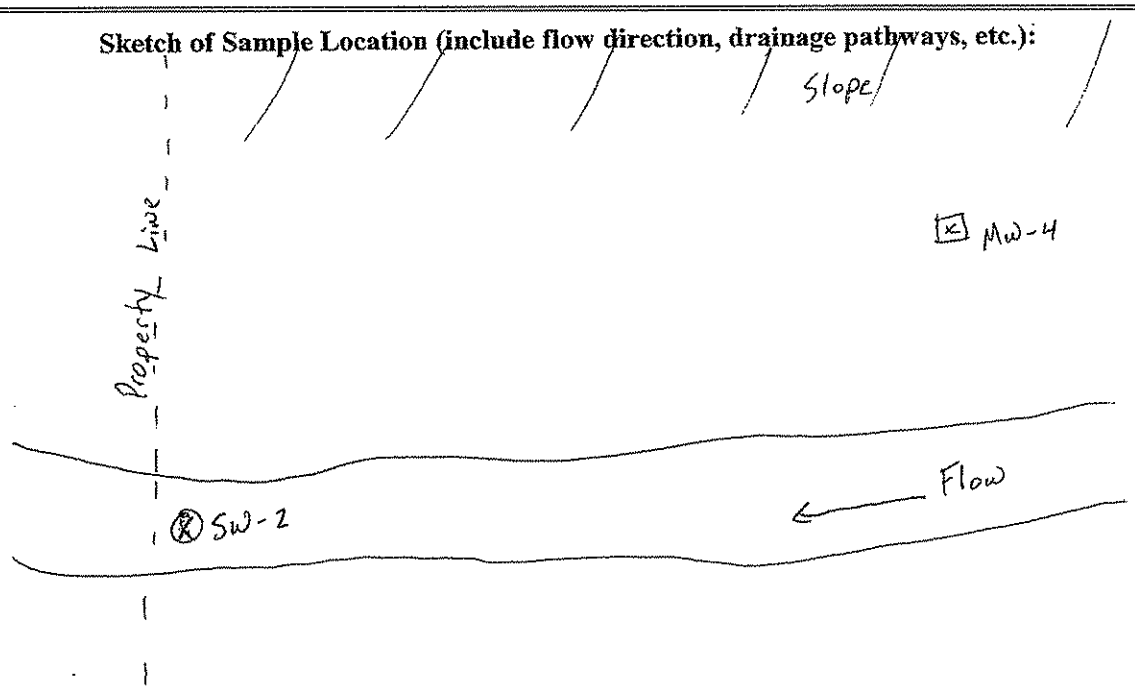
Field Parameters:

Time of Sampling:	1241	
pH:	7.44	
Temperature:	17.3	(°C)
Conductivity:	67.9	(µS)
Turbidity:	22.5	(ntu)

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

Sunny 70's

Sketch of Sample Location (include flow direction, drainage pathways, etc.):



Signature: Adam Cox **Date:** 5/9/13

QA/QC Sign Off: [illegible] **Date:** 5/20/13

DATE: 5/9/2013

JOYCE ENGINEERING

SURFACE WATER MONITORING LOG

Project Name: Town Of Kernersville **Project/Task No.:** 838.1201.12.01

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

Location: In the stream directly across from MW-2

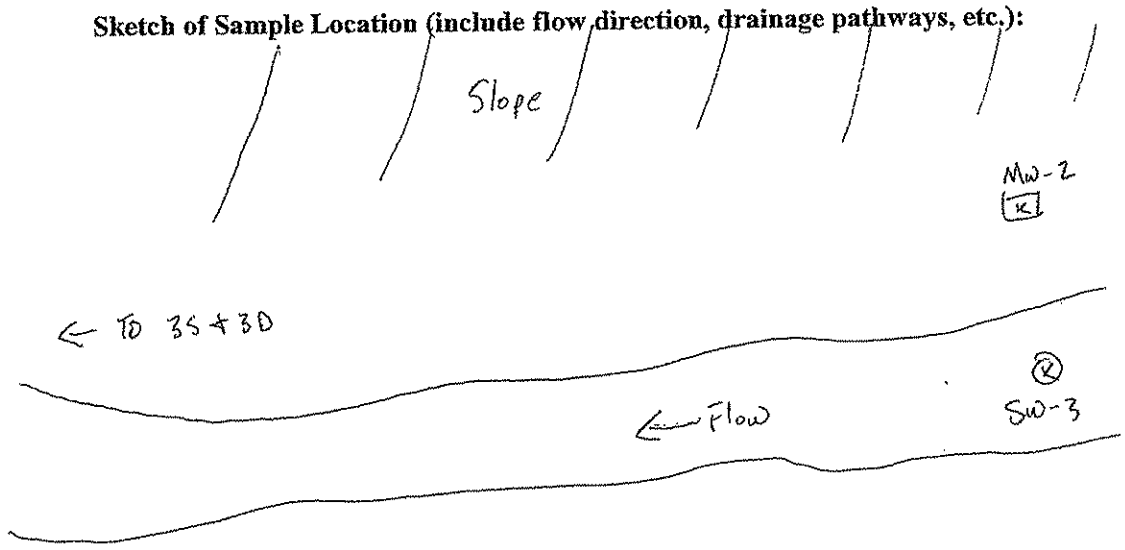
Field Parameters:

Time of Sampling:	1110	
pH:	7.09	
Temperature:	15.0	(°C)
Conductivity:	61.5	(µS)
Turbidity:	7.10	(ntu)

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

Sunny 70's

Sketch of Sample Location (include flow direction, drainage pathways, etc.):



Signature: Adam Cox **Date:** 5/9/13

QA/QC Sign Off: [illegible] **Date:** 5/20/13