

**CASWELL COUNTY LANDFILL**  
**Yanceyville, North Carolina**  
**Semi-Annual Water Quality Monitoring Report**  
**December 2013 Sampling Event**  
S&ME Project No. 1584-07-034

Prepared For:



Caswell County  
Post Office Box 98  
144 Court Square  
Yanceyville, North Carolina 27379

Prepared By:



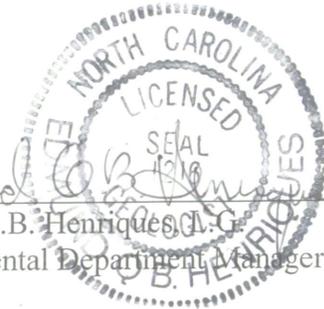
S&ME, Inc.  
3718 Old Battleground Road  
Greensboro, North Carolina 27410

January 17, 2014



I hereby certify this 17th day of January 2014 that this report was prepared by me or under my direct supervision.

  
Edmund Q.B. Henriques, C.E.  
Environmental Department Manager



Technical Review provided by:

  
Wayne H. Watterson, P.E.  
Senior Engineer



## **TABLE OF CONTENTS**

<b>1.0 EXECUTIVE SUMMARY .....</b>	<b>1</b>
<b>2.0 INTRODUCTION.....</b>	<b>2</b>
<b>3.0 SCOPE OF WORK.....</b>	<b>2</b>
<b>4.0 METHODS EMPLOYED.....</b>	<b>3</b>
4.1 Monitoring Well Sampling.....	3
4.2 Surface Water Sampling.....	3
<b>5.0 RESULTS .....</b>	<b>4</b>
5.1 Groundwater Analytical Results.....	4
5.2 Surface Water Analytical Results.....	4
5.3 Groundwater Flow Direction.....	5
5.4 Quality Assurance.....	5
5.5 Preliminary Analysis of Cause and Significance of 2L Exceedances .....	5
<b>6.0 REFERENCES.....</b>	<b>7</b>

### **TABLES**

### **FIGURES**

### **APPENDIX A**

### **APPENDIX B**

### **APPENDIX C**

## 1.0 EXECUTIVE SUMMARY

Six monitoring wells at the Caswell County Landfill were sampled on December 11, 2013. The six wells (MW-1, MW-2, MW-3, MW-4, MW-5, and MW-6) comprise the groundwater monitoring system for the closed Caswell County Landfill. This sampling event was conducted according to North Carolina Solid Waste Management Guidelines. Samples collected from monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, and MW-6 and surface water samples SW-1 and SW-2 were submitted for analysis of the North Carolina Landfill Appendix I volatile organic constituents plus eight RCRA Metals. The samples were analyzed by PACE Analytical Services, Inc. of Huntersville, North Carolina, a North Carolina certified laboratory.

Analytical results of the six groundwater samples indicate that the metal arsenic was detected at concentrations greater than the corresponding 15A North Carolina Administrative Code (NCAC) 2L.0200 groundwater quality standards (2L Standard) in monitoring well MW-2 during this event. It is documented that the facility's background water quality monitoring well MW-1, has contained arsenic at concentrations similar to those detected during this event at well MW-2. Although not proven the reported arsenic concentration at monitoring well MW-2 likely represents natural background conditions which, if validated, the 2L Standard would not be exceeded. There were no other metals detected at concentrations greater than the corresponding 2L Standards.

The volatile organic constituent benzene was detected in monitoring wells MW-2, MW-4, and MW-5 at concentrations above the corresponding 2L Standard of 1 µg/L. Volatile organic constituent 1,4-dichlorobenzene was detected in the groundwater samples collected from wells MW-2, MW-4, and MW-5 at reported concentrations above the corresponding 2L Standard of 6 µg/L. During this event, no other volatile organic compounds were detected in the monitoring wells sampled at concentrations greater than the corresponding 2L Standards.

During this monitoring event, no volatile organic constituents were detected above the method detection limit in either of the two stream sample locations. Barium was detected in up-gradient background surface water sample SW-1 and down-gradient sample SW-2 at similar concentrations. The reported concentrations are below their respective 15A NCAC 2B Surface Water Standard for Class C surface waters. There were no other metals detected above the method detection limit in the surface water samples collected during this sampling event.

It is believed that the cause of the 2L Standards exceedances for Benzene and 1,4-Dichlorobenzene at the Caswell County Landfill is from percolation of landfill constituents from the waste management units into the uppermost groundwater aquifer. Due to the detection of these exceedances above the 2L Standards in the compliance wells, S&ME recommends that a water supply well receptor survey be completed for the Caswell County Landfill and the development of an assessment plan to address the 2L Standards exceedances in accordance with regulatory requirements.

## **2.0 INTRODUCTION**

S&ME Inc. (S&ME) has completed the second semi-annual monitoring event for 2013 at the closed Caswell County Landfill site. The monitoring activities were authorized by Caswell County Manager, Mr. Kevin Howard and were completed in general accordance with S&ME proposal 1584-13-P037rev1 dated August 20, 2013. This report summarizes our understanding of the project, our field services, and the results of laboratory analyses performed on the samples collected.

The Caswell County Landfill is a closed facility that currently monitors water quality under a Post Closure Care Plan on a semi-annual basis. The facility uses a network of six (6) groundwater monitoring wells to monitor groundwater quality at the Facility. The groundwater monitoring network is made up of one upgradient monitoring well (MW-1) and five downgradient compliance monitoring wells (MW-2, MW-3, MW-4, MW-5, and MW-6). The collected groundwater samples are analyzed in accordance with 15A NCAC 13B .0500 et seq for the North Carolina Landfill Appendix I volatile organic constituent suite plus the eight RCRA metals. Groundwater monitoring wells were purged and groundwater samples were collected using new, disposable, Teflon bailers, or a sterile pump with new Teflon tubing.

The facility also typically monitors surface water quality at the stream that crosses the down-gradient region of the Facility. As conditions allow, during each semi-annual monitoring event, two surface water samples are collected from this stream at designated sampling points. Stream sampling location SW-1 is the upstream sampling location to the south of the waste management unit. Stream sampling location SW-2 is the downstream sampling location. During the December 11, 2013 sampling event, stream samples were collected from both surface water monitoring points SW-1 and SW-2.

This report discusses the field procedures, summarizes the field measurements and analytical results for the second semi-annual water quality monitoring event for 2013.

## **3.0 SCOPE OF WORK**

S&ME has performed the second semi-annual groundwater sampling of the six (6) network groundwater monitoring wells for the 2013 groundwater monitoring year. The groundwater monitoring wells were purged, sampled, and the collected groundwater samples collected from MW-1 through MW-6 were analyzed (in accordance with 15A NCAC 13B .0500 et seq) for the North Carolina Appendix I volatile organic constituents and all monitoring wells were analyzed for the eight RCRA metals. This semi-annual groundwater monitoring report has been prepared to summarize the December 11, 2013, groundwater monitoring event and includes:

- Summary Tables of the laboratory analytical data from each sampling event,
- Development of a current potentiometric map,
- A discussion of findings and results,

- An electronic copy of this report will be sent to the North Carolina Department of Environment and Natural Resources (NC DENR)

## **4.0 METHODS EMPLOYED**

### **4.1 Monitoring Well Sampling**

Groundwater monitoring well sampling took place on December 11, 2013. The monitoring well locations with respect to the Facility layout are shown on **Figure 1**. Prior to sample collection each well was opened and the static water level measured relative to the top edge of the PVC well casing. The total well depth was used to determine the volume of water in the wells at the time of the sampling event. These data are summarized in **Table 1**.

Monitor wells MW-1 and MW-4 were manually purged using a new, sterile Teflon bailer prior to collecting the water samples. Each well was purged of three times the well volume or purged until the well went dry prior to the collection of the groundwater sample. The bailer was lowered, by hand, using a nylon rope into the well in such a manner as to minimize agitation of the groundwater. The purge water from each of these wells was monitored for pH, conductivity, and temperature.

Monitor wells MW-3, MW-5, and MW-6 were purged and sampled using a peristaltic pump. New Teflon tubing was used at each well. Each well was purged of three times the well volume or purged until the well was dry prior to the collection of the groundwater sample. The purge water from each of these wells was monitored for pH, conductivity, and temperature. The field data collected during sampling was recorded on the groundwater sampling field data sheets included in **Appendix A** of this report.

Immediately upon collection, each groundwater sample was placed in laboratory supplied containers, packed on ice, and placed under chain-of custody. The sampling technician wore nitrile gloves that were changed between wells to reduce the possibility of cross contamination.

All monitoring well samples were then sent to PACE Analytical Services, Inc. (PACE) in Huntersville, North Carolina to be analyzed for Appendix I volatile organic constituents and the eight RCRA metals.

### **4.2 Surface Water Sampling**

Surface water sampling took place on December 11, 2013. Two stream samples (SW-1 and SW-2) were collected from an unnamed tributary of Moon Creek, which flows along the eastern portion of the Facility and flows easterly away from the Landfill. Surface water sample (SW-1) was collected from an upstream position with respect to the waste management unit and SW-2 was collected downstream of the waste management unit. The surface water samples were collected by immersing laboratory supplied containers directly into the stream at the locations to be sampled. After collection, the surface water samples were packed on ice and placed under chain-of-custody. All stream samples were

analyzed for the North Carolina Appendix I volatile organic constituents as well as the 8 RCRA metals by PACE Analytical Services, Inc.; a North Carolina certified laboratory.

## 5.0 RESULTS

### 5.1 Groundwater Analytical Results

The results of the laboratory analyses for the groundwater monitoring well samples are summarized in **Tables 2 & 3**, which also provide the corresponding 15A North Carolina Administrative Code (NCAC) 2L.0200 groundwater quality standards (2L Standard) for reference.

The complete laboratory reports are included in **Appendix B**. The following summarizes the groundwater sample analyses for the six monitoring wells (MW-1, MW-2, MW-3, MW-4, MW-5, and MW-6) sampled on December 11, 2013.

#### Metals:

- Arsenic was detected solely in monitoring wells MW-1; the reported concentration of 13.1 µg/L is greater than the 2L Standard for arsenic set at 10 µg/L.
- Barium was detected in each monitoring well sampled during the current event; however, at concentrations less than the corresponding 2L Standard.
- Lead was detected at monitoring wells MW-2 and MW-4. The reported concentrations are less than the 2L Standard for lead set at 15 µg/L.

There were no other metals detected above the method detection limit from any other groundwater monitoring wells during the December 11, 2013 monitoring event. The analytical results of the metals analyses are summarized in Table 3.

#### Volatile Organic Compounds:

- Benzene was detected in the groundwater samples collected from monitoring wells MW-2, MW-4, and MW-5. The reported concentrations at wells MW-2, MW-4, and MW-5 are greater than the 2L Standard of 1 µg/L for benzene.
- 1,4-dichlorobenzene was detected in the groundwater samples collected from wells MW-2, MW-3, MW-4, and MW-5. The concentrations reported at wells MW-2, MW-4, and MW-5 are greater than the 2L Standard established at 6 µg/L.
- Chlorobenzene, Chloroethane, 1,2-Dichlorobenzene, 1,4-Dichlorobenzene were detected in one or more groundwater samples during this monitoring event; however, each of the reported concentrations of these constituents were less than their respective 2L Standard. No other volatile organic compounds were detected in the monitoring wells sampled during this event.

### 5.2 Surface Water Analytical Results

There were no volatile organic constituents detected above the method detection limit in the stream samples SW-1 or SW-2 during the December 11, 2013 semi-annual monitoring event. The results are illustrated on **Table 4**.

The metal barium was detected in samples SW-1 and SW-2, at similar concentrations. The reported concentrations are below the respective 15A NCAC 2B Surface Water Standard for barium for Class C surface waters. There were no other metals detected above the method detection limit in the surface water samples collected during this sampling event. The results of the metals analyses are summarized on **Table 5**.

### **5.3 Groundwater Flow Direction**

The static water levels in the monitoring wells were measured on December 11, 2013. The depth to the water table ranged from 10.39 to 24.92 feet below the top of well casing on this date. Groundwater elevation data are presented in Table 1. Ground surface elevations were taken from surface topography illustrated on Plan Sheet No. 3 of the Caswell County Landfill Closure Plans prepared by Dewberry and Davis in March 1994. The groundwater elevation at each monitoring well was approximated by taking the difference of the ground surface elevation (topography) and the depth to static water in each monitoring well. A groundwater contour map was constructed using the calculated groundwater elevation data from the December 11, 2013, sampling event and is presented as **Figure 2**. The groundwater elevation data collected during this monitoring event indicates that the groundwater beneath the landfill generally flows easterly toward the unnamed tributary of Moon Creek.

### **5.4 Quality Assurance**

A qualitative review of the data was performed to verify that the detected concentrations in the laboratory report were of known quality. A formal, quantitative data validation was not performed. Laboratory-assigned data qualifiers were evaluated to verify that rejected or unsupported data were not included in the dataset. Quality control data provided in the laboratory reports were also reviewed. No rejected or otherwise unacceptable quality data were reported from the laboratory.

During this event a duplicate sample was collected from monitoring well MW-4 and submitted for analysis. The results of the detected volatile organic constituents and metals from the duplicate sample were similar in concentration to the results reported in sample MW-4; suggesting reasonable accuracy between these analytical results. A Laboratory QC Method Blank was also analyzed for the Appendix I Volatile Organic Compounds as well as the RCRA 8 metals. No monitored constituents were detected in the method blank during the December 11, 2013 monitoring event. The results of the method blank and laboratory QC sample analyses are included in **Appendix B**.

### **5.5 Preliminary Analysis of Cause and Significance of 2L Exceedances**

During this event, the metal arsenic was detected at concentrations exceeding the corresponding 2L Standard in monitoring well MW-2. It is documented that the facilities background water quality monitoring well MW-1, has contained arsenic at concentrations similar to those detected during this event at well MW-2. Although not proven the reported arsenic concentration at monitoring well MW-2 likely represents natural background conditions; which if validated, the 2L Standard would not be exceeded.

It is believed that the cause of the 2L Standard exceedances reported for benzene and 1,4-dichlorobenzene within the hydrogeologic regime at the Caswell County Landfill is caused from percolation of landfill constituents from the waste management units into the uppermost groundwater aquifer. The NCDENR Environmental Monitoring Reporting Form is included in **Appendix C**.

Previously, S&ME reviewed the 2000 aerial photograph of the Caswell County Landfill and surrounding vicinity as a preliminary analysis of the proximity of potential receptor water well users to the compliance monitoring wells in which 2L Standard exceedances occurred during the July 2010 groundwater monitoring event. Based on the aerial photograph for the year 2000, the nearest suspect residential home is located approximately 900 feet northeast of compliance monitoring well MW-5, which is the furthest downgradient monitoring well on the landfill side of the unnamed tributary of Moon Creek. The observed suspect homes are topographically up-gradient and on the other side of the unnamed tributary of Moon Creek from the Caswell County Landfill. At this time, S&ME has no information regarding the current use of groundwater as a potable water source for these homes, in the surrounding area.

Due to the detection of exceedances of the 2L Standard in the compliance wells, S&ME recommends that a detailed water supply well receptor survey be completed for the Caswell County Landfill and the development of an assessment plan to address the regulatory requirements associated with the 2L Standard exceedances.

## **6.0 REFERENCES**

Fetter, C. W., 1988, Applied Hydrogeology, New York; Macmillian Publishing Company, 1988, 592 pp.

North Carolina Administrative Code, Title 15A, Department of Environment, Health and Natural Resources, Division of Environmental Management, Subchapter 2L, Classifications and Water Quality Standards Applicable to the Groundwaters of North Carolina, Sections .0100, .0200, and .0300 (January 1, 2010); from the Environmental Management Commission Raleigh, North Carolina.

North Carolina Administrative Code, Title 15A, Department of Environment, Health and Natural Resources, Division of Environmental Management, Subchapter 2B, Classifications and Water Quality Standards Applicable to the Surface Waters of North Carolina, Section .0200 (May 2013); from the Environmental Management Commission, Raleigh, North Carolina.

North Carolina Administrative Code, Title 15A, Department of Environment, Health and Natural Resources, Division of Solid Waste Management, subchapter 13B, Solid Waste Management, Section .1600 (January 1, 1997).

## **TABLES**

**TABLE 1**  
**GROUNDWATER ELEVATION SUMMARY**  
**CASWELL COUNTY LANDFILL**  
**YANCEYVILLE, NORTH CAROLINA**  
**S&ME PROJECT NO. 1584-07-034**

<b>Static Water Levels</b>				
<b>Well No.</b>	<b>Ground Surface Elevation (topographic)</b>	<b>Depth of Well (feet)</b>	<b>December 11, 2013</b>	
			<b>(feet)</b>	<b>Elevation (feet)</b>
MW-1	572	24.5	20.32	551.7
MW-2	526	22.3	21.07	504.9
MW-3	511	17.8	12.75	498.3
MW-4	526	36.0	24.92	501.1
MW-5	498	24.7	10.39	487.6
MW-6	489	16.2	10.50	478.5

*Topographic = ground elevation estimated from topographic map w/2 foot contour interval,  
not a surveyed elevation*

*Depth of well data as measured by S&ME Inc. personnel on date of sampling*

*DTGW = Depth to Groundwater*

*Elevation = calculated groundwater elevation (rounded to nearest 0.1 foot)*

**TABLE 2**  
**GROUNDWATER ANALYTICAL RESULTS SUMMARY - DECEMBER 11, 2013**  
**APPENDIX I - VOLATILE ORGANIC COMPOUNDS**  
**CASWELL COUNTY LANDFILL**  
**YANCEYVILLE, NORTH CAROLINA**  
**S&ME PROJECT NO. 1584-07-034**

Compound	Sample Locations							NC SWSL (ug/L)	NCAC 2L stds. (ug/L)
	MW-1 (ug/L)	MW-2 (ug/L)	MW-3 (ug/L)	MW-4 (ug/L)	MW-5 (ug/L)	MW-6 (ug/L)	Duplicate (ug/L)		
Benzene	ND	1.9	ND	1.0	1.4	ND	1.1	1	1
Chlorobenzene	ND	27.9	5.1	20.3	7.7	ND	21.5	3	50
Chloroethane	ND	1.2	1.6	1.4	1.8	ND	1.3	10	3000
1,2-Dichlorobenzene	ND	2.7	ND	2.0	2.2	ND	2.1	5	20
1,4-Dichlorobenzene	ND	14.3	3.5	12.9	15.4	ND	13.1	1	6

*NCAC 2L stds. = 15A North Carolina Administrative Code 2L .0200, GW Quality Standards for Class GA groundwater.*

*\* = Interim Maximum Allowable Concentration (IMAC) listed in NCAC 2L, December 1, 2010*

*Orange highlights indicate a measurement higher than 2L standards.*

DW = Dry well. No sample obtained for analysis

NC SWSL = North Carolina Solid Waste Section Limit

**TABLE 3**  
**GROUNDWATER ANALYTICAL RESULTS SUMMARY - DECEMBER 11, 2013**  
**8-RCRA METALS**  
**CASWELL COUNTY LANDFILL**  
**YANCEYVILLE, NORTH CAROLINA**  
**S&ME PROJECT NO. 1584-07-034**

Constituent	Sample Locations							NC SWSL (ug/L)	NCAC 2L stds. (ug/L)
	MW-1 (ug/L)	MW-2 (ug/L)	MW-3 (ug/L)	MW-4 (ug/L)	MW-5 (ug/L)	MW-6 (ug/L)	Duplicate (ug/L)		
Arsenic	ND	13.1	ND	ND	ND	ND	ND	10	10
Barium	31.2	321	74.9	56.2	42.6	17.9	56.1	100	700
Lead	ND	5.1	ND	ND	5.5	ND	5.0	5	15

*all concentrations reported in micrograms per liter (ug/L)*

*NC SWSL = North Carolina Solid Waste Section Limit*

*ND = Analyte not detected*

*NCAC 2L stds. = 15A North Carolina Administrative Code 2L .0200, GW Quality Standards for Class GA groundwater.*

*ns = no standard listed according to NCAC 2L*

*Orange highlights indicate a measurement higher than 2L standards.*

*DW = Dry well. No sample obtained for analysis*

**TABLE 4**  
**SURFACE WATER ANALYTICAL RESULTS SUMMARY - DECEMBER 11, 2013**  
**APPENDIX I - VOLATILE ORGANIC COMPOUNDS**  
**CASWELL COUNTY LANDFILL**  
**YANCEYVILLE, NORTH CAROLINA**  
**S&ME PROJECT NO. 1584-07-034**

Compound	Sample Locations		NC SWSL (ug/L)	15A NCAC 2B Standards* (ug/L)
	SW-1 (ug/L) up-stream	SW-2 (ug/L) down-stream		
All Target Compounds	ND	ND	--	--

*NC SWSL= North Carolina Solid Waste Section Limit*

*ND = compound not detected in sample*

*\* = Title 15A NCAC 2B Standards for Class B, C surface water*

**TABLE 5**  
**SURFACE WATER ANALYTICAL RESULTS SUMMARY - DECEMBER 11, 2013**  
**8-RCRA METALS**  
**CASWELL COUNTY LANDFILL**  
**YANCEYVILLE, NORTH CAROLINA**  
**S&ME PROJECT NO. 1584-07-034**

Constituent	Sample Locations		NC SWSL (ug/L)	15A NCAC 2B Standards* (ug/L)
	SW-1 (ug/L) up-stream	SW-2 (ug/L) down-stream		
Barium	24.3	27.3	100	1000

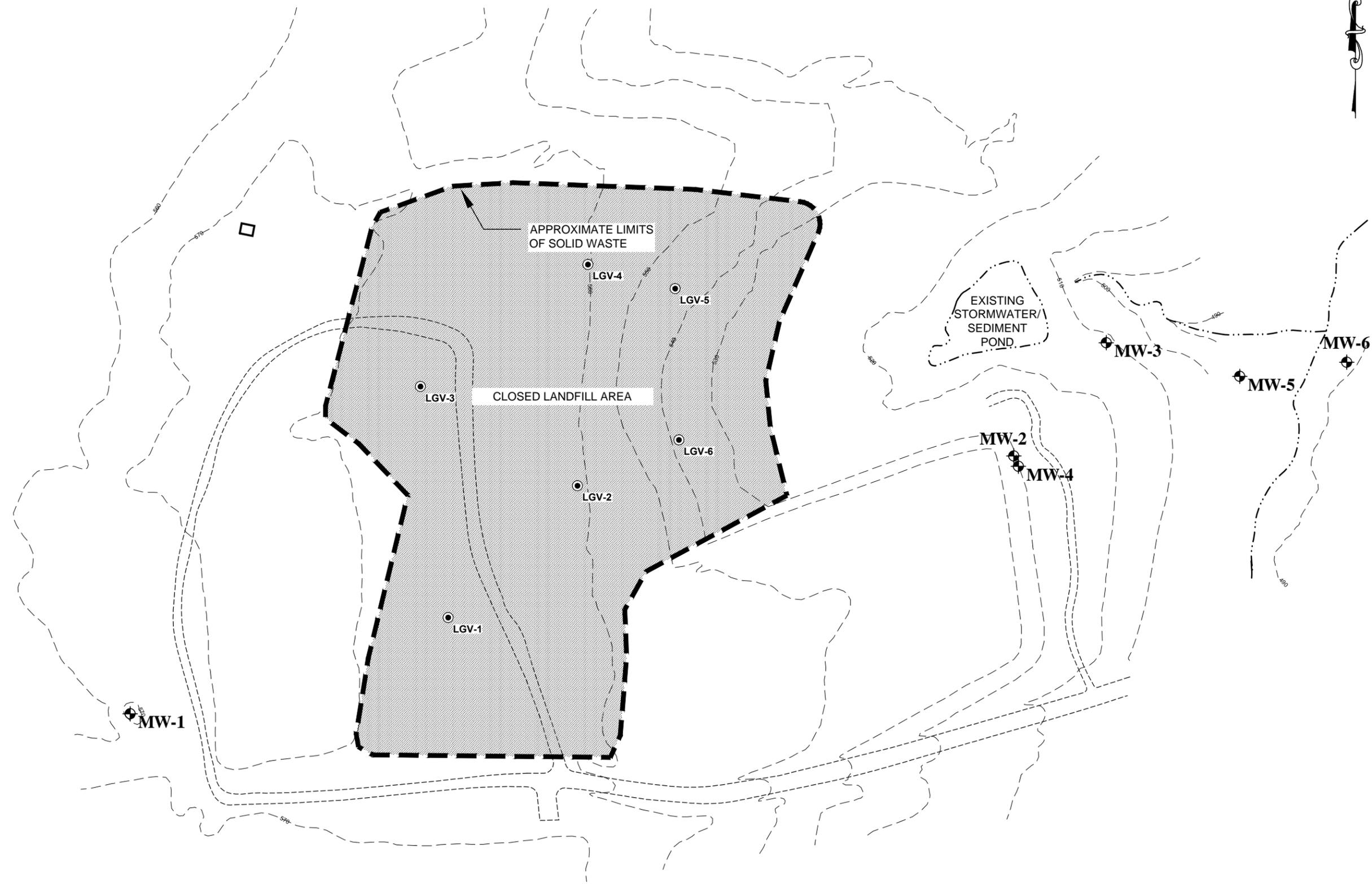
*NC SWSL = North Carolina Solid Waste Section Limit*

*ND = Parameter not detected*

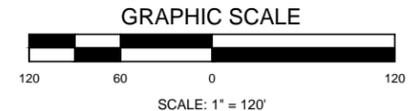
*\* = Title 15A NCAC 2B Standards for Class B, C surface water*

*J = Parameters are estimated values between the detection limit and the NC SWSL.*

## **FIGURES**



**KEY**  
 ◆ - MONITORING WELL LOCATION  
 ● - APPROXIMATE LOCATION OF LANDFILL GAS VENTS

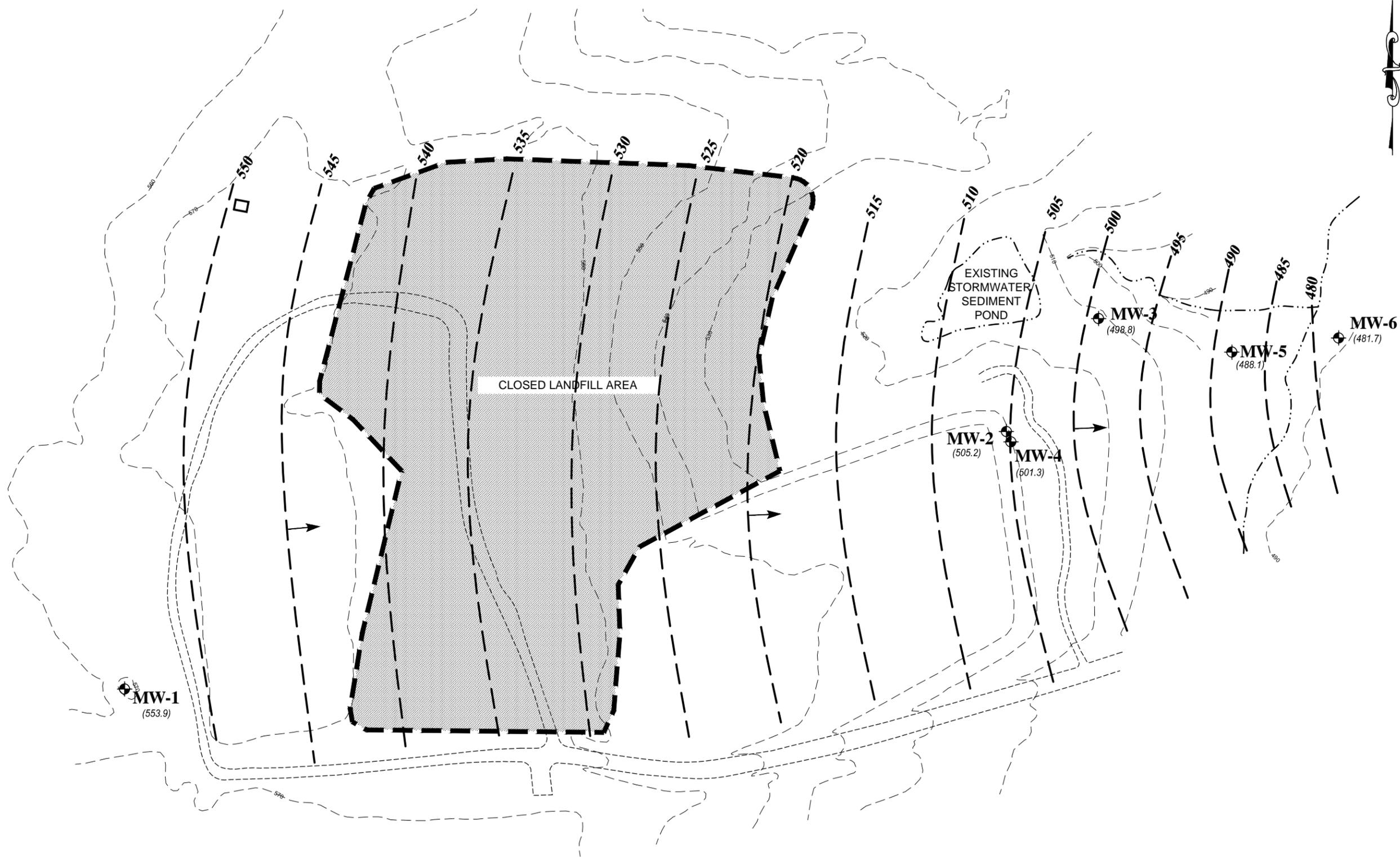


**SITE PLAN**  
 CASWELL COUNTY LANDFILL  
 YANCEYVILLE, NORTH CAROLINA

3718 OLD BATTLEGROUND ROAD  
 GREENSBORO, NC. 27410  
 PH. 336-288-7180  
 FAX. 336-288-8980  
 WWW.SMEINC.COM



SCALE: AS SHOWN	DRAWN BY: RDM	CHECKED BY: CDW
JOB NO. 1584-07-034	DATE: OCTOBER 2013	FIGURE NO. 1



- KEY**
- MONITORING WELL LOCATION
  - GROUNDWATER CONTOUR
  - GROUNDWATER ELEVATION MEASURED IN MONITORING WELL
  - GROUNDWATER FLOW DIRECTION



**GROUNDWATER CONTOUR MAP**  
 CASWELL COUNTY LANDFILL  
 YANCEYVILLE, NORTH CAROLINA

SCALE: AS SHOWN	DRAWN BY: RDM	CHECKED BY: EQBH
JOB NO. 1584-07-034	DATE: OCTOBER 2013	FIGURE NO. 2

3718 OLD BATTLEGROUND ROAD  
 GREENSBORO, NC 27410  
 PH. 336-288-7180  
 FAX. 336-288-8980  
 WWW.SMEINC.COM



**APPENDIX A**  
**Groundwater Sampling Field Data Sheets**

















**APPENDIX B**  
**Laboratory Analytical Reports**

December 23, 2013

Mr. Kevin Howard  
Caswell County Landfill  
162 Landfill Road  
Yanceyville, NC 27379

RE: Project: CASWELL COUNTY LANDFILL  
Pace Project No.: 92183280

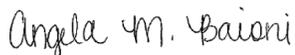
Dear Mr. Howard:

Enclosed are the analytical results for sample(s) received by the laboratory on December 13, 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,



Angela Baioni

angela.baioni@pacelabs.com  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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 Huntersville, NC 28078  
 (704)875-9092

## CERTIFICATIONS

Project: CASWELL COUNTY LANDFILL  
 Pace Project No.: 92183280

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**Charlotte Certification IDs**

9800 Kinsey 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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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: CASWELL COUNTY LANDFILL

Pace Project No.: 92183280

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92183280001	1701-MW1	EPA 6010	NJZ	7	PASI-A
		EPA 7470	MTS	1	PASI-A
		EPA 8260	MCK	51	PASI-C
92183280002	1701-MW2	EPA 6010	NJZ	7	PASI-A
		EPA 7470	MTS	1	PASI-A
		EPA 8260	MCK	51	PASI-C
92183280003	1701-MW3	EPA 6010	NJZ	7	PASI-A
		EPA 7470	MTS	1	PASI-A
		EPA 8260	MCK	51	PASI-C
92183280004	1701-MW4	EPA 6010	NJZ	7	PASI-A
		EPA 7470	MTS	1	PASI-A
		EPA 8260	MCK	51	PASI-C
92183280005	1701-MW5	EPA 6010	NJZ	7	PASI-A
		EPA 7470	MTS	1	PASI-A
		EPA 8260	MCK	51	PASI-C
92183280006	1701-MW6	EPA 6010	NJZ	7	PASI-A
		EPA 7470	MTS	1	PASI-A
		EPA 8260	MCK	51	PASI-C
92183280007	1701-SW1	EPA 6010	NJZ	7	PASI-A
		EPA 7470	MTS	1	PASI-A
		EPA 8260	MCK	51	PASI-C
92183280008	1701-SW2	EPA 6010	NJZ	7	PASI-A
		EPA 7470	MTS	1	PASI-A
		EPA 8260	MCK	51	PASI-C
92183280009	1701-DUPLICATE	EPA 6010	NJZ	7	PASI-A
		EPA 7470	MTS	1	PASI-A
		EPA 8260	MCK	51	PASI-C
92183280010	1701-TB1	EPA 8260	MCK	51	PASI-C

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: CASWELL COUNTY LANDFILL

Pace Project No.: 92183280

Sample: 1701-MW1	Lab ID: 92183280001	Collected: 12/11/13 15:00	Received: 12/13/13 14:12	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 ICP Groundwater</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	ND ug/L		10.0	1	12/17/13 09:25	12/18/13 03:18	7440-38-2	
Barium	31.2 ug/L		5.0	1	12/17/13 09:25	12/18/13 03:18	7440-39-3	
Cadmium	ND ug/L		1.0	1	12/17/13 09:25	12/18/13 15:46	7440-43-9	
Chromium	ND ug/L		5.0	1	12/17/13 09:25	12/18/13 03:18	7440-47-3	
Lead	ND ug/L		5.0	1	12/17/13 09:25	12/18/13 03:18	7439-92-1	
Selenium	ND ug/L		10.0	1	12/17/13 09:25	12/18/13 03:18	7782-49-2	
Silver	ND ug/L		5.0	1	12/17/13 09:25	12/18/13 03:18	7440-22-4	
<b>7470 Mercury</b>								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND ug/L		0.20	1	12/14/13 10:00	12/14/13 15:01	7439-97-6	M1
<b>8260 MSV Low Level Landfill</b>								
Analytical Method: EPA 8260								
Acetone	ND ug/L		25.0	1		12/22/13 14:29	67-64-1	
Acrylonitrile	ND ug/L		10.0	1		12/22/13 14:29	107-13-1	
Benzene	ND ug/L		1.0	1		12/22/13 14:29	71-43-2	
Bromochloromethane	ND ug/L		1.0	1		12/22/13 14:29	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		12/22/13 14:29	75-27-4	
Bromoform	ND ug/L		1.0	1		12/22/13 14:29	75-25-2	
Bromomethane	ND ug/L		2.0	1		12/22/13 14:29	74-83-9	
2-Butanone (MEK)	ND ug/L		5.0	1		12/22/13 14:29	78-93-3	
Carbon disulfide	ND ug/L		2.0	1		12/22/13 14:29	75-15-0	
Carbon tetrachloride	ND ug/L		1.0	1		12/22/13 14:29	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		12/22/13 14:29	108-90-7	
Chloroethane	ND ug/L		1.0	1		12/22/13 14:29	75-00-3	
Chloroform	ND ug/L		1.0	1		12/22/13 14:29	67-66-3	
Chloromethane	ND ug/L		1.0	1		12/22/13 14:29	74-87-3	
Dibromochloromethane	ND ug/L		1.0	1		12/22/13 14:29	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		12/22/13 14:29	106-93-4	
Dibromomethane	ND ug/L		1.0	1		12/22/13 14:29	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	1		12/22/13 14:29	95-50-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		12/22/13 14:29	106-46-7	
trans-1,4-Dichloro-2-butene	ND ug/L		1.0	1		12/22/13 14:29	110-57-6	
1,1-Dichloroethane	ND ug/L		1.0	1		12/22/13 14:29	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		12/22/13 14:29	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		12/22/13 14:29	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		12/22/13 14:29	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		12/22/13 14:29	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		12/22/13 14:29	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		12/22/13 14:29	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		12/22/13 14:29	10061-02-6	
Ethylbenzene	ND ug/L		1.0	1		12/22/13 14:29	100-41-4	
2-Hexanone	ND ug/L		5.0	1		12/22/13 14:29	591-78-6	
Iodomethane	ND ug/L		5.0	1		12/22/13 14:29	74-88-4	
Methylene Chloride	ND ug/L		1.0	1		12/22/13 14:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	1		12/22/13 14:29	108-10-1	
Styrene	ND ug/L		1.0	1		12/22/13 14:29	100-42-5	

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### ANALYTICAL RESULTS

Project: CASWELL COUNTY LANDFILL

Pace Project No.: 92183280

Sample: 1701-MW1		Lab ID: 92183280001	Collected: 12/11/13 15:00	Received: 12/13/13 14:12	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level Landfill</b>		Analytical Method: EPA 8260						
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		12/22/13 14:29	630-20-6	
1,1,2-Tetrachloroethane	ND ug/L		1.0	1		12/22/13 14:29	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		12/22/13 14:29	127-18-4	
Toluene	ND ug/L		1.0	1		12/22/13 14:29	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		12/22/13 14:29	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		12/22/13 14:29	79-00-5	
Trichloroethene	ND ug/L		1.0	1		12/22/13 14:29	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		12/22/13 14:29	75-69-4	
1,2,3-Trichloropropane	ND ug/L		1.0	1		12/22/13 14:29	96-18-4	
Vinyl acetate	ND ug/L		2.0	1		12/22/13 14:29	108-05-4	
Vinyl chloride	ND ug/L		1.0	1		12/22/13 14:29	75-01-4	
Xylene (Total)	ND ug/L		2.0	1		12/22/13 14:29	1330-20-7	
m&p-Xylene	ND ug/L		2.0	1		12/22/13 14:29	179601-23-1	
o-Xylene	ND ug/L		1.0	1		12/22/13 14:29	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	98 %		70-130	1		12/22/13 14:29	460-00-4	
1,2-Dichloroethane-d4 (S)	100 %		70-130	1		12/22/13 14:29	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		12/22/13 14:29	2037-26-5	

Sample: 1701-MW2		Lab ID: 92183280002	Collected: 12/11/13 09:45	Received: 12/13/13 14:12	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 ICP Groundwater</b>		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Arsenic	13.1 ug/L		10.0	1	12/17/13 09:25	12/18/13 03:27	7440-38-2	
Barium	321 ug/L		5.0	1	12/17/13 09:25	12/18/13 03:27	7440-39-3	
Cadmium	ND ug/L		1.0	1	12/17/13 09:25	12/18/13 15:55	7440-43-9	
Chromium	ND ug/L		5.0	1	12/17/13 09:25	12/18/13 03:27	7440-47-3	
Lead	5.1 ug/L		5.0	1	12/17/13 09:25	12/18/13 03:27	7439-92-1	
Selenium	ND ug/L		10.0	1	12/17/13 09:25	12/18/13 03:27	7782-49-2	
Silver	ND ug/L		5.0	1	12/17/13 09:25	12/18/13 03:27	7440-22-4	
<b>7470 Mercury</b>		Analytical Method: EPA 7470 Preparation Method: EPA 7470						
Mercury	ND ug/L		0.20	1	12/14/13 10:00	12/14/13 15:09	7439-97-6	
<b>8260 MSV Low Level Landfill</b>		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		12/22/13 14:45	67-64-1	
Acrylonitrile	ND ug/L		10.0	1		12/22/13 14:45	107-13-1	
Benzene	1.9 ug/L		1.0	1		12/22/13 14:45	71-43-2	
Bromochloromethane	ND ug/L		1.0	1		12/22/13 14:45	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		12/22/13 14:45	75-27-4	
Bromoform	ND ug/L		1.0	1		12/22/13 14:45	75-25-2	
Bromomethane	ND ug/L		2.0	1		12/22/13 14:45	74-83-9	
2-Butanone (MEK)	ND ug/L		5.0	1		12/22/13 14:45	78-93-3	
Carbon disulfide	ND ug/L		2.0	1		12/22/13 14:45	75-15-0	

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## ANALYTICAL RESULTS

Project: CASWELL COUNTY LANDFILL

Pace Project No.: 92183280

Sample: 1701-MW2		Lab ID: 92183280002	Collected: 12/11/13 09:45	Received: 12/13/13 14:12	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level Landfill</b>		Analytical Method: EPA 8260						
Carbon tetrachloride	ND	ug/L	1.0	1		12/22/13 14:45	56-23-5	
Chlorobenzene	27.9	ug/L	1.0	1		12/22/13 14:45	108-90-7	
Chloroethane	1.2	ug/L	1.0	1		12/22/13 14:45	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/22/13 14:45	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/22/13 14:45	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		12/22/13 14:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/22/13 14:45	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		12/22/13 14:45	74-95-3	
1,2-Dichlorobenzene	2.7	ug/L	1.0	1		12/22/13 14:45	95-50-1	
1,4-Dichlorobenzene	14.3	ug/L	1.0	1		12/22/13 14:45	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		12/22/13 14:45	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/22/13 14:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/22/13 14:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/22/13 14:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/22/13 14:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/22/13 14:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/22/13 14:45	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/22/13 14:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/22/13 14:45	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		12/22/13 14:45	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		12/22/13 14:45	591-78-6	
Iodomethane	ND	ug/L	5.0	1		12/22/13 14:45	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		12/22/13 14:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		12/22/13 14:45	108-10-1	
Styrene	ND	ug/L	1.0	1		12/22/13 14:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/22/13 14:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/22/13 14:45	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/22/13 14:45	127-18-4	
Toluene	ND	ug/L	1.0	1		12/22/13 14:45	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/22/13 14:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/22/13 14:45	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/22/13 14:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/22/13 14:45	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		12/22/13 14:45	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		12/22/13 14:45	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		12/22/13 14:45	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		12/22/13 14:45	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/22/13 14:45	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/22/13 14:45	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	99 %		70-130	1		12/22/13 14:45	460-00-4	
1,2-Dichloroethane-d4 (S)	99 %		70-130	1		12/22/13 14:45	17060-07-0	
Toluene-d8 (S)	99 %		70-130	1		12/22/13 14:45	2037-26-5	

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## ANALYTICAL RESULTS

Project: CASWELL COUNTY LANDFILL

Pace Project No.: 92183280

Sample: 1701-MW3	Lab ID: 92183280003	Collected: 12/11/13 11:30	Received: 12/13/13 14:12	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 ICP Groundwater</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	ND ug/L		10.0	1	12/17/13 09:25	12/18/13 03:30	7440-38-2	
Barium	<b>74.9</b> ug/L		5.0	1	12/17/13 09:25	12/18/13 03:30	7440-39-3	
Cadmium	ND ug/L		1.0	1	12/17/13 09:25	12/18/13 15:58	7440-43-9	
Chromium	ND ug/L		5.0	1	12/17/13 09:25	12/18/13 03:30	7440-47-3	
Lead	ND ug/L		5.0	1	12/17/13 09:25	12/18/13 03:30	7439-92-1	
Selenium	ND ug/L		10.0	1	12/17/13 09:25	12/18/13 03:30	7782-49-2	
Silver	ND ug/L		5.0	1	12/17/13 09:25	12/18/13 03:30	7440-22-4	
<b>7470 Mercury</b>								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND ug/L		0.20	1	12/14/13 10:00	12/14/13 15:11	7439-97-6	
<b>8260 MSV Low Level Landfill</b>								
Analytical Method: EPA 8260								
Acetone	ND ug/L		25.0	1		12/22/13 15:00	67-64-1	
Acrylonitrile	ND ug/L		10.0	1		12/22/13 15:00	107-13-1	
Benzene	ND ug/L		1.0	1		12/22/13 15:00	71-43-2	
Bromochloromethane	ND ug/L		1.0	1		12/22/13 15:00	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		12/22/13 15:00	75-27-4	
Bromoform	ND ug/L		1.0	1		12/22/13 15:00	75-25-2	
Bromomethane	ND ug/L		2.0	1		12/22/13 15:00	74-83-9	
2-Butanone (MEK)	ND ug/L		5.0	1		12/22/13 15:00	78-93-3	
Carbon disulfide	ND ug/L		2.0	1		12/22/13 15:00	75-15-0	
Carbon tetrachloride	ND ug/L		1.0	1		12/22/13 15:00	56-23-5	
Chlorobenzene	<b>5.1</b> ug/L		1.0	1		12/22/13 15:00	108-90-7	
Chloroethane	<b>1.6</b> ug/L		1.0	1		12/22/13 15:00	75-00-3	
Chloroform	ND ug/L		1.0	1		12/22/13 15:00	67-66-3	
Chloromethane	ND ug/L		1.0	1		12/22/13 15:00	74-87-3	
Dibromochloromethane	ND ug/L		1.0	1		12/22/13 15:00	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		12/22/13 15:00	106-93-4	
Dibromomethane	ND ug/L		1.0	1		12/22/13 15:00	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	1		12/22/13 15:00	95-50-1	
1,4-Dichlorobenzene	<b>3.5</b> ug/L		1.0	1		12/22/13 15:00	106-46-7	
trans-1,4-Dichloro-2-butene	ND ug/L		1.0	1		12/22/13 15:00	110-57-6	
1,1-Dichloroethane	ND ug/L		1.0	1		12/22/13 15:00	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		12/22/13 15:00	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		12/22/13 15:00	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		12/22/13 15:00	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		12/22/13 15:00	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		12/22/13 15:00	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		12/22/13 15:00	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		12/22/13 15:00	10061-02-6	
Ethylbenzene	ND ug/L		1.0	1		12/22/13 15:00	100-41-4	
2-Hexanone	ND ug/L		5.0	1		12/22/13 15:00	591-78-6	
Iodomethane	ND ug/L		5.0	1		12/22/13 15:00	74-88-4	
Methylene Chloride	ND ug/L		1.0	1		12/22/13 15:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	1		12/22/13 15:00	108-10-1	
Styrene	ND ug/L		1.0	1		12/22/13 15:00	100-42-5	

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### ANALYTICAL RESULTS

Project: CASWELL COUNTY LANDFILL  
Pace Project No.: 92183280

Sample: 1701-MW3		Lab ID: 92183280003	Collected: 12/11/13 11:30	Received: 12/13/13 14:12	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level Landfill</b>		Analytical Method: EPA 8260						
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		12/22/13 15:00	630-20-6	
1,1,2-Tetrachloroethane	ND ug/L		1.0	1		12/22/13 15:00	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		12/22/13 15:00	127-18-4	
Toluene	ND ug/L		1.0	1		12/22/13 15:00	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		12/22/13 15:00	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		12/22/13 15:00	79-00-5	
Trichloroethene	ND ug/L		1.0	1		12/22/13 15:00	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		12/22/13 15:00	75-69-4	
1,2,3-Trichloropropane	ND ug/L		1.0	1		12/22/13 15:00	96-18-4	
Vinyl acetate	ND ug/L		2.0	1		12/22/13 15:00	108-05-4	
Vinyl chloride	ND ug/L		1.0	1		12/22/13 15:00	75-01-4	
Xylene (Total)	ND ug/L		2.0	1		12/22/13 15:00	1330-20-7	
m&p-Xylene	ND ug/L		2.0	1		12/22/13 15:00	179601-23-1	
o-Xylene	ND ug/L		1.0	1		12/22/13 15:00	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	98 %		70-130	1		12/22/13 15:00	460-00-4	
1,2-Dichloroethane-d4 (S)	99 %		70-130	1		12/22/13 15:00	17060-07-0	
Toluene-d8 (S)	99 %		70-130	1		12/22/13 15:00	2037-26-5	

Sample: 1701-MW4		Lab ID: 92183280004	Collected: 12/11/13 10:30	Received: 12/13/13 14:12	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 ICP Groundwater</b>		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Arsenic	ND ug/L		10.0	1	12/17/13 09:25	12/18/13 03:34	7440-38-2	
Barium	56.2 ug/L		5.0	1	12/17/13 09:25	12/18/13 03:34	7440-39-3	
Cadmium	ND ug/L		1.0	1	12/17/13 09:25	12/18/13 16:11	7440-43-9	
Chromium	ND ug/L		5.0	1	12/17/13 09:25	12/18/13 03:34	7440-47-3	
Lead	ND ug/L		5.0	1	12/17/13 09:25	12/18/13 03:34	7439-92-1	
Selenium	ND ug/L		10.0	1	12/17/13 09:25	12/18/13 03:34	7782-49-2	
Silver	ND ug/L		5.0	1	12/17/13 09:25	12/18/13 03:34	7440-22-4	
<b>7470 Mercury</b>		Analytical Method: EPA 7470 Preparation Method: EPA 7470						
Mercury	ND ug/L		0.20	1	12/14/13 10:00	12/14/13 15:14	7439-97-6	
<b>8260 MSV Low Level Landfill</b>		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		12/22/13 15:20	67-64-1	
Acrylonitrile	ND ug/L		10.0	1		12/22/13 15:20	107-13-1	
Benzene	1.0 ug/L		1.0	1		12/22/13 15:20	71-43-2	
Bromochloromethane	ND ug/L		1.0	1		12/22/13 15:20	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		12/22/13 15:20	75-27-4	
Bromoform	ND ug/L		1.0	1		12/22/13 15:20	75-25-2	
Bromomethane	ND ug/L		2.0	1		12/22/13 15:20	74-83-9	
2-Butanone (MEK)	ND ug/L		5.0	1		12/22/13 15:20	78-93-3	
Carbon disulfide	ND ug/L		2.0	1		12/22/13 15:20	75-15-0	

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## ANALYTICAL RESULTS

Project: CASWELL COUNTY LANDFILL

Pace Project No.: 92183280

Sample: 1701-MW4		Lab ID: 92183280004	Collected: 12/11/13 10:30	Received: 12/13/13 14:12	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level Landfill</b>		Analytical Method: EPA 8260						
Carbon tetrachloride	ND	ug/L	1.0	1		12/22/13 15:20	56-23-5	
Chlorobenzene	<b>20.3</b>	ug/L	1.0	1		12/22/13 15:20	108-90-7	
Chloroethane	<b>1.4</b>	ug/L	1.0	1		12/22/13 15:20	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/22/13 15:20	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/22/13 15:20	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		12/22/13 15:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/22/13 15:20	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		12/22/13 15:20	74-95-3	
1,2-Dichlorobenzene	<b>2.0</b>	ug/L	1.0	1		12/22/13 15:20	95-50-1	
1,4-Dichlorobenzene	<b>12.9</b>	ug/L	1.0	1		12/22/13 15:20	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		12/22/13 15:20	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/22/13 15:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/22/13 15:20	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/22/13 15:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/22/13 15:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/22/13 15:20	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/22/13 15:20	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/22/13 15:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/22/13 15:20	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		12/22/13 15:20	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		12/22/13 15:20	591-78-6	
Iodomethane	ND	ug/L	5.0	1		12/22/13 15:20	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		12/22/13 15:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		12/22/13 15:20	108-10-1	
Styrene	ND	ug/L	1.0	1		12/22/13 15:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/22/13 15:20	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/22/13 15:20	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/22/13 15:20	127-18-4	
Toluene	ND	ug/L	1.0	1		12/22/13 15:20	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/22/13 15:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/22/13 15:20	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/22/13 15:20	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/22/13 15:20	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		12/22/13 15:20	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		12/22/13 15:20	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		12/22/13 15:20	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		12/22/13 15:20	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/22/13 15:20	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/22/13 15:20	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	99 %		70-130	1		12/22/13 15:20	460-00-4	
1,2-Dichloroethane-d4 (S)	100 %		70-130	1		12/22/13 15:20	17060-07-0	
Toluene-d8 (S)	99 %		70-130	1		12/22/13 15:20	2037-26-5	

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## ANALYTICAL RESULTS

Project: CASWELL COUNTY LANDFILL

Pace Project No.: 92183280

Sample: 1701-MW5	Lab ID: 92183280005	Collected: 12/11/13 12:30	Received: 12/13/13 14:12	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 ICP Groundwater</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	ND	ug/L	10.0	1	12/17/13 09:25	12/18/13 03:37	7440-38-2	
Barium	42.6	ug/L	5.0	1	12/17/13 09:25	12/18/13 03:37	7440-39-3	
Cadmium	ND	ug/L	1.0	1	12/17/13 09:25	12/18/13 16:14	7440-43-9	
Chromium	ND	ug/L	5.0	1	12/17/13 09:25	12/18/13 03:37	7440-47-3	
Lead	5.5	ug/L	5.0	1	12/17/13 09:25	12/18/13 03:37	7439-92-1	
Selenium	ND	ug/L	10.0	1	12/17/13 09:25	12/18/13 03:37	7782-49-2	
Silver	ND	ug/L	5.0	1	12/17/13 09:25	12/18/13 03:37	7440-22-4	
<b>7470 Mercury</b>								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	1	12/14/13 10:00	12/14/13 15:22	7439-97-6	
<b>8260 MSV Low Level Landfill</b>								
Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	1		12/22/13 15:35	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		12/22/13 15:35	107-13-1	
Benzene	1.4	ug/L	1.0	1		12/22/13 15:35	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		12/22/13 15:35	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/22/13 15:35	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/22/13 15:35	75-25-2	
Bromomethane	ND	ug/L	2.0	1		12/22/13 15:35	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		12/22/13 15:35	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		12/22/13 15:35	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		12/22/13 15:35	56-23-5	
Chlorobenzene	7.7	ug/L	1.0	1		12/22/13 15:35	108-90-7	
Chloroethane	1.8	ug/L	1.0	1		12/22/13 15:35	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/22/13 15:35	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/22/13 15:35	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		12/22/13 15:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/22/13 15:35	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		12/22/13 15:35	74-95-3	
1,2-Dichlorobenzene	2.2	ug/L	1.0	1		12/22/13 15:35	95-50-1	
1,4-Dichlorobenzene	15.4	ug/L	1.0	1		12/22/13 15:35	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		12/22/13 15:35	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/22/13 15:35	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/22/13 15:35	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/22/13 15:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/22/13 15:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/22/13 15:35	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/22/13 15:35	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/22/13 15:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/22/13 15:35	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		12/22/13 15:35	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		12/22/13 15:35	591-78-6	
Iodomethane	ND	ug/L	5.0	1		12/22/13 15:35	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		12/22/13 15:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		12/22/13 15:35	108-10-1	
Styrene	ND	ug/L	1.0	1		12/22/13 15:35	100-42-5	

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### ANALYTICAL RESULTS

Project: CASWELL COUNTY LANDFILL

Pace Project No.: 92183280

Sample: 1701-MW5		Lab ID: 92183280005	Collected: 12/11/13 12:30	Received: 12/13/13 14:12	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level Landfill</b>		Analytical Method: EPA 8260						
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		12/22/13 15:35	630-20-6	
1,1,2-Tetrachloroethane	ND ug/L		1.0	1		12/22/13 15:35	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		12/22/13 15:35	127-18-4	
Toluene	ND ug/L		1.0	1		12/22/13 15:35	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		12/22/13 15:35	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		12/22/13 15:35	79-00-5	
Trichloroethene	ND ug/L		1.0	1		12/22/13 15:35	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		12/22/13 15:35	75-69-4	
1,2,3-Trichloropropane	ND ug/L		1.0	1		12/22/13 15:35	96-18-4	
Vinyl acetate	ND ug/L		2.0	1		12/22/13 15:35	108-05-4	
Vinyl chloride	ND ug/L		1.0	1		12/22/13 15:35	75-01-4	
Xylene (Total)	ND ug/L		2.0	1		12/22/13 15:35	1330-20-7	
m&p-Xylene	ND ug/L		2.0	1		12/22/13 15:35	179601-23-1	
o-Xylene	ND ug/L		1.0	1		12/22/13 15:35	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	97 %		70-130	1		12/22/13 15:35	460-00-4	
1,2-Dichloroethane-d4 (S)	99 %		70-130	1		12/22/13 15:35	17060-07-0	
Toluene-d8 (S)	99 %		70-130	1		12/22/13 15:35	2037-26-5	

Sample: 1701-MW6		Lab ID: 92183280006	Collected: 12/11/13 13:30	Received: 12/13/13 14:12	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 ICP Groundwater</b>		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Arsenic	ND ug/L		10.0	1	12/17/13 09:25	12/18/13 03:40	7440-38-2	
Barium	<b>17.9</b> ug/L		5.0	1	12/17/13 09:25	12/18/13 03:40	7440-39-3	
Cadmium	ND ug/L		1.0	1	12/17/13 09:25	12/18/13 16:17	7440-43-9	
Chromium	ND ug/L		5.0	1	12/17/13 09:25	12/18/13 03:40	7440-47-3	
Lead	ND ug/L		5.0	1	12/17/13 09:25	12/18/13 03:40	7439-92-1	
Selenium	ND ug/L		10.0	1	12/17/13 09:25	12/18/13 03:40	7782-49-2	
Silver	ND ug/L		5.0	1	12/17/13 09:25	12/18/13 03:40	7440-22-4	
<b>7470 Mercury</b>		Analytical Method: EPA 7470 Preparation Method: EPA 7470						
Mercury	ND ug/L		0.20	1	12/14/13 10:00	12/14/13 15:24	7439-97-6	
<b>8260 MSV Low Level Landfill</b>		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		12/22/13 15:51	67-64-1	
Acrylonitrile	ND ug/L		10.0	1		12/22/13 15:51	107-13-1	
Benzene	ND ug/L		1.0	1		12/22/13 15:51	71-43-2	
Bromochloromethane	ND ug/L		1.0	1		12/22/13 15:51	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		12/22/13 15:51	75-27-4	
Bromoform	ND ug/L		1.0	1		12/22/13 15:51	75-25-2	
Bromomethane	ND ug/L		2.0	1		12/22/13 15:51	74-83-9	
2-Butanone (MEK)	ND ug/L		5.0	1		12/22/13 15:51	78-93-3	
Carbon disulfide	ND ug/L		2.0	1		12/22/13 15:51	75-15-0	

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## ANALYTICAL RESULTS

Project: CASWELL COUNTY LANDFILL

Pace Project No.: 92183280

Sample: 1701-MW6		Lab ID: 92183280006	Collected: 12/11/13 13:30	Received: 12/13/13 14:12	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level Landfill</b>		Analytical Method: EPA 8260						
Carbon tetrachloride	ND ug/L		1.0	1		12/22/13 15:51	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		12/22/13 15:51	108-90-7	
Chloroethane	ND ug/L		1.0	1		12/22/13 15:51	75-00-3	
Chloroform	ND ug/L		1.0	1		12/22/13 15:51	67-66-3	
Chloromethane	ND ug/L		1.0	1		12/22/13 15:51	74-87-3	
Dibromochloromethane	ND ug/L		1.0	1		12/22/13 15:51	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		12/22/13 15:51	106-93-4	
Dibromomethane	ND ug/L		1.0	1		12/22/13 15:51	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	1		12/22/13 15:51	95-50-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		12/22/13 15:51	106-46-7	
trans-1,4-Dichloro-2-butene	ND ug/L		1.0	1		12/22/13 15:51	110-57-6	
1,1-Dichloroethane	ND ug/L		1.0	1		12/22/13 15:51	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		12/22/13 15:51	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		12/22/13 15:51	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		12/22/13 15:51	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		12/22/13 15:51	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		12/22/13 15:51	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		12/22/13 15:51	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		12/22/13 15:51	10061-02-6	
Ethylbenzene	ND ug/L		1.0	1		12/22/13 15:51	100-41-4	
2-Hexanone	ND ug/L		5.0	1		12/22/13 15:51	591-78-6	
Iodomethane	ND ug/L		5.0	1		12/22/13 15:51	74-88-4	
Methylene Chloride	ND ug/L		1.0	1		12/22/13 15:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	1		12/22/13 15:51	108-10-1	
Styrene	ND ug/L		1.0	1		12/22/13 15:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		12/22/13 15:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		12/22/13 15:51	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		12/22/13 15:51	127-18-4	
Toluene	ND ug/L		1.0	1		12/22/13 15:51	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		12/22/13 15:51	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		12/22/13 15:51	79-00-5	
Trichloroethene	ND ug/L		1.0	1		12/22/13 15:51	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		12/22/13 15:51	75-69-4	
1,2,3-Trichloropropane	ND ug/L		1.0	1		12/22/13 15:51	96-18-4	
Vinyl acetate	ND ug/L		2.0	1		12/22/13 15:51	108-05-4	
Vinyl chloride	ND ug/L		1.0	1		12/22/13 15:51	75-01-4	
Xylene (Total)	ND ug/L		2.0	1		12/22/13 15:51	1330-20-7	
m&p-Xylene	ND ug/L		2.0	1		12/22/13 15:51	179601-23-1	
o-Xylene	ND ug/L		1.0	1		12/22/13 15:51	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	100 %		70-130	1		12/22/13 15:51	460-00-4	
1,2-Dichloroethane-d4 (S)	100 %		70-130	1		12/22/13 15:51	17060-07-0	
Toluene-d8 (S)	99 %		70-130	1		12/22/13 15:51	2037-26-5	

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## ANALYTICAL RESULTS

Project: CASWELL COUNTY LANDFILL

Pace Project No.: 92183280

Sample: 1701-SW1	Lab ID: 92183280007	Collected: 12/11/13 14:15	Received: 12/13/13 14:12	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 ICP Groundwater</b>		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Arsenic	ND ug/L		10.0	1	12/17/13 09:25	12/18/13 03:52	7440-38-2	
Barium	24.3 ug/L		5.0	1	12/17/13 09:25	12/18/13 03:52	7440-39-3	
Cadmium	ND ug/L		1.0	1	12/17/13 09:25	12/18/13 16:20	7440-43-9	
Chromium	ND ug/L		5.0	1	12/17/13 09:25	12/18/13 03:52	7440-47-3	
Lead	ND ug/L		5.0	1	12/17/13 09:25	12/18/13 03:52	7439-92-1	
Selenium	ND ug/L		10.0	1	12/17/13 09:25	12/18/13 03:52	7782-49-2	
Silver	ND ug/L		5.0	1	12/17/13 09:25	12/18/13 03:52	7440-22-4	
<b>7470 Mercury</b>		Analytical Method: EPA 7470 Preparation Method: EPA 7470						
Mercury	ND ug/L		0.20	1	12/14/13 10:00	12/14/13 15:27	7439-97-6	
<b>8260 MSV Low Level Landfill</b>		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		12/22/13 16:06	67-64-1	
Acrylonitrile	ND ug/L		10.0	1		12/22/13 16:06	107-13-1	
Benzene	ND ug/L		1.0	1		12/22/13 16:06	71-43-2	
Bromochloromethane	ND ug/L		1.0	1		12/22/13 16:06	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		12/22/13 16:06	75-27-4	
Bromoform	ND ug/L		1.0	1		12/22/13 16:06	75-25-2	
Bromomethane	ND ug/L		2.0	1		12/22/13 16:06	74-83-9	
2-Butanone (MEK)	ND ug/L		5.0	1		12/22/13 16:06	78-93-3	
Carbon disulfide	ND ug/L		2.0	1		12/22/13 16:06	75-15-0	
Carbon tetrachloride	ND ug/L		1.0	1		12/22/13 16:06	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		12/22/13 16:06	108-90-7	
Chloroethane	ND ug/L		1.0	1		12/22/13 16:06	75-00-3	
Chloroform	ND ug/L		1.0	1		12/22/13 16:06	67-66-3	
Chloromethane	ND ug/L		1.0	1		12/22/13 16:06	74-87-3	
Dibromochloromethane	ND ug/L		1.0	1		12/22/13 16:06	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		12/22/13 16:06	106-93-4	
Dibromomethane	ND ug/L		1.0	1		12/22/13 16:06	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	1		12/22/13 16:06	95-50-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		12/22/13 16:06	106-46-7	
trans-1,4-Dichloro-2-butene	ND ug/L		1.0	1		12/22/13 16:06	110-57-6	
1,1-Dichloroethane	ND ug/L		1.0	1		12/22/13 16:06	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		12/22/13 16:06	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		12/22/13 16:06	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		12/22/13 16:06	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		12/22/13 16:06	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		12/22/13 16:06	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		12/22/13 16:06	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		12/22/13 16:06	10061-02-6	
Ethylbenzene	ND ug/L		1.0	1		12/22/13 16:06	100-41-4	
2-Hexanone	ND ug/L		5.0	1		12/22/13 16:06	591-78-6	
Iodomethane	ND ug/L		5.0	1		12/22/13 16:06	74-88-4	
Methylene Chloride	ND ug/L		1.0	1		12/22/13 16:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	1		12/22/13 16:06	108-10-1	
Styrene	ND ug/L		1.0	1		12/22/13 16:06	100-42-5	

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### ANALYTICAL RESULTS

Project: CASWELL COUNTY LANDFILL

Pace Project No.: 92183280

Sample: 1701-SW1		Lab ID: 92183280007	Collected: 12/11/13 14:15	Received: 12/13/13 14:12	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level Landfill</b>		Analytical Method: EPA 8260						
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		12/22/13 16:06	630-20-6	
1,1,2-Tetrachloroethane	ND ug/L		1.0	1		12/22/13 16:06	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		12/22/13 16:06	127-18-4	
Toluene	ND ug/L		1.0	1		12/22/13 16:06	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		12/22/13 16:06	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		12/22/13 16:06	79-00-5	
Trichloroethene	ND ug/L		1.0	1		12/22/13 16:06	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		12/22/13 16:06	75-69-4	
1,2,3-Trichloropropane	ND ug/L		1.0	1		12/22/13 16:06	96-18-4	
Vinyl acetate	ND ug/L		2.0	1		12/22/13 16:06	108-05-4	
Vinyl chloride	ND ug/L		1.0	1		12/22/13 16:06	75-01-4	
Xylene (Total)	ND ug/L		2.0	1		12/22/13 16:06	1330-20-7	
m&p-Xylene	ND ug/L		2.0	1		12/22/13 16:06	179601-23-1	
o-Xylene	ND ug/L		1.0	1		12/22/13 16:06	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	99 %		70-130	1		12/22/13 16:06	460-00-4	
1,2-Dichloroethane-d4 (S)	99 %		70-130	1		12/22/13 16:06	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		12/22/13 16:06	2037-26-5	

Sample: 1701-SW2		Lab ID: 92183280008	Collected: 12/11/13 13:45	Received: 12/13/13 14:12	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 ICP Groundwater</b>		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Arsenic	ND ug/L		10.0	1	12/17/13 09:25	12/18/13 03:55	7440-38-2	
Barium	27.3 ug/L		5.0	1	12/17/13 09:25	12/18/13 03:55	7440-39-3	
Cadmium	ND ug/L		1.0	1	12/17/13 09:25	12/18/13 16:23	7440-43-9	
Chromium	ND ug/L		5.0	1	12/17/13 09:25	12/18/13 03:55	7440-47-3	
Lead	ND ug/L		5.0	1	12/17/13 09:25	12/18/13 03:55	7439-92-1	
Selenium	ND ug/L		10.0	1	12/17/13 09:25	12/18/13 03:55	7782-49-2	
Silver	ND ug/L		5.0	1	12/17/13 09:25	12/18/13 03:55	7440-22-4	
<b>7470 Mercury</b>		Analytical Method: EPA 7470 Preparation Method: EPA 7470						
Mercury	ND ug/L		0.20	1	12/14/13 10:00	12/14/13 15:30	7439-97-6	
<b>8260 MSV Low Level Landfill</b>		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		12/22/13 16:22	67-64-1	
Acrylonitrile	ND ug/L		10.0	1		12/22/13 16:22	107-13-1	
Benzene	ND ug/L		1.0	1		12/22/13 16:22	71-43-2	
Bromochloromethane	ND ug/L		1.0	1		12/22/13 16:22	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		12/22/13 16:22	75-27-4	
Bromoform	ND ug/L		1.0	1		12/22/13 16:22	75-25-2	
Bromomethane	ND ug/L		2.0	1		12/22/13 16:22	74-83-9	
2-Butanone (MEK)	ND ug/L		5.0	1		12/22/13 16:22	78-93-3	
Carbon disulfide	ND ug/L		2.0	1		12/22/13 16:22	75-15-0	

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## ANALYTICAL RESULTS

Project: CASWELL COUNTY LANDFILL

Pace Project No.: 92183280

Sample: 1701-SW2	Lab ID: 92183280008	Collected: 12/11/13 13:45	Received: 12/13/13 14:12	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level Landfill</b>		Analytical Method: EPA 8260						
Carbon tetrachloride	ND ug/L		1.0	1		12/22/13 16:22	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		12/22/13 16:22	108-90-7	
Chloroethane	ND ug/L		1.0	1		12/22/13 16:22	75-00-3	
Chloroform	ND ug/L		1.0	1		12/22/13 16:22	67-66-3	
Chloromethane	ND ug/L		1.0	1		12/22/13 16:22	74-87-3	
Dibromochloromethane	ND ug/L		1.0	1		12/22/13 16:22	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		12/22/13 16:22	106-93-4	
Dibromomethane	ND ug/L		1.0	1		12/22/13 16:22	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	1		12/22/13 16:22	95-50-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		12/22/13 16:22	106-46-7	
trans-1,4-Dichloro-2-butene	ND ug/L		1.0	1		12/22/13 16:22	110-57-6	
1,1-Dichloroethane	ND ug/L		1.0	1		12/22/13 16:22	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		12/22/13 16:22	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		12/22/13 16:22	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		12/22/13 16:22	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		12/22/13 16:22	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		12/22/13 16:22	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		12/22/13 16:22	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		12/22/13 16:22	10061-02-6	
Ethylbenzene	ND ug/L		1.0	1		12/22/13 16:22	100-41-4	
2-Hexanone	ND ug/L		5.0	1		12/22/13 16:22	591-78-6	
Iodomethane	ND ug/L		5.0	1		12/22/13 16:22	74-88-4	
Methylene Chloride	ND ug/L		1.0	1		12/22/13 16:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	1		12/22/13 16:22	108-10-1	
Styrene	ND ug/L		1.0	1		12/22/13 16:22	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		12/22/13 16:22	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		12/22/13 16:22	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		12/22/13 16:22	127-18-4	
Toluene	ND ug/L		1.0	1		12/22/13 16:22	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		12/22/13 16:22	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		12/22/13 16:22	79-00-5	
Trichloroethene	ND ug/L		1.0	1		12/22/13 16:22	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		12/22/13 16:22	75-69-4	
1,2,3-Trichloropropane	ND ug/L		1.0	1		12/22/13 16:22	96-18-4	
Vinyl acetate	ND ug/L		2.0	1		12/22/13 16:22	108-05-4	
Vinyl chloride	ND ug/L		1.0	1		12/22/13 16:22	75-01-4	
Xylene (Total)	ND ug/L		2.0	1		12/22/13 16:22	1330-20-7	
m&p-Xylene	ND ug/L		2.0	1		12/22/13 16:22	179601-23-1	
o-Xylene	ND ug/L		1.0	1		12/22/13 16:22	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	99 %		70-130	1		12/22/13 16:22	460-00-4	
1,2-Dichloroethane-d4 (S)	100 %		70-130	1		12/22/13 16:22	17060-07-0	
Toluene-d8 (S)	99 %		70-130	1		12/22/13 16:22	2037-26-5	

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## ANALYTICAL RESULTS

Project: CASWELL COUNTY LANDFILL

Pace Project No.: 92183280

Sample: 1701-DUPLICATE	Lab ID: 92183280009	Collected: 12/11/13 08:00	Received: 12/13/13 14:12	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 ICP Groundwater</b>		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Arsenic	ND ug/L		10.0	1	12/17/13 09:25	12/18/13 03:59	7440-38-2	
Barium	56.1 ug/L		5.0	1	12/17/13 09:25	12/18/13 03:59	7440-39-3	
Cadmium	ND ug/L		1.0	1	12/17/13 09:25	12/18/13 16:26	7440-43-9	
Chromium	ND ug/L		5.0	1	12/17/13 09:25	12/18/13 03:59	7440-47-3	
Lead	5.0 ug/L		5.0	1	12/17/13 09:25	12/18/13 03:59	7439-92-1	
Selenium	ND ug/L		10.0	1	12/17/13 09:25	12/18/13 03:59	7782-49-2	
Silver	ND ug/L		5.0	1	12/17/13 09:25	12/18/13 03:59	7440-22-4	
<b>7470 Mercury</b>		Analytical Method: EPA 7470 Preparation Method: EPA 7470						
Mercury	ND ug/L		0.20	1	12/14/13 10:00	12/14/13 15:32	7439-97-6	
<b>8260 MSV Low Level Landfill</b>		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		12/22/13 16:37	67-64-1	
Acrylonitrile	ND ug/L		10.0	1		12/22/13 16:37	107-13-1	
Benzene	1.1 ug/L		1.0	1		12/22/13 16:37	71-43-2	
Bromochloromethane	ND ug/L		1.0	1		12/22/13 16:37	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		12/22/13 16:37	75-27-4	
Bromoform	ND ug/L		1.0	1		12/22/13 16:37	75-25-2	
Bromomethane	ND ug/L		2.0	1		12/22/13 16:37	74-83-9	
2-Butanone (MEK)	ND ug/L		5.0	1		12/22/13 16:37	78-93-3	
Carbon disulfide	ND ug/L		2.0	1		12/22/13 16:37	75-15-0	
Carbon tetrachloride	ND ug/L		1.0	1		12/22/13 16:37	56-23-5	
Chlorobenzene	21.5 ug/L		1.0	1		12/22/13 16:37	108-90-7	
Chloroethane	1.3 ug/L		1.0	1		12/22/13 16:37	75-00-3	
Chloroform	ND ug/L		1.0	1		12/22/13 16:37	67-66-3	
Chloromethane	ND ug/L		1.0	1		12/22/13 16:37	74-87-3	
Dibromochloromethane	ND ug/L		1.0	1		12/22/13 16:37	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		12/22/13 16:37	106-93-4	
Dibromomethane	ND ug/L		1.0	1		12/22/13 16:37	74-95-3	
1,2-Dichlorobenzene	2.1 ug/L		1.0	1		12/22/13 16:37	95-50-1	
1,4-Dichlorobenzene	13.1 ug/L		1.0	1		12/22/13 16:37	106-46-7	
trans-1,4-Dichloro-2-butene	ND ug/L		1.0	1		12/22/13 16:37	110-57-6	
1,1-Dichloroethane	ND ug/L		1.0	1		12/22/13 16:37	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		12/22/13 16:37	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		12/22/13 16:37	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		12/22/13 16:37	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		12/22/13 16:37	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		12/22/13 16:37	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		12/22/13 16:37	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		12/22/13 16:37	10061-02-6	
Ethylbenzene	ND ug/L		1.0	1		12/22/13 16:37	100-41-4	
2-Hexanone	ND ug/L		5.0	1		12/22/13 16:37	591-78-6	
Iodomethane	ND ug/L		5.0	1		12/22/13 16:37	74-88-4	
Methylene Chloride	ND ug/L		1.0	1		12/22/13 16:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	1		12/22/13 16:37	108-10-1	
Styrene	ND ug/L		1.0	1		12/22/13 16:37	100-42-5	

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### ANALYTICAL RESULTS

Project: CASWELL COUNTY LANDFILL

Pace Project No.: 92183280

Sample: 1701-DUPLICATE		Lab ID: 92183280009	Collected: 12/11/13 08:00	Received: 12/13/13 14:12	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level Landfill</b>		Analytical Method: EPA 8260						
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		12/22/13 16:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		12/22/13 16:37	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		12/22/13 16:37	127-18-4	
Toluene	ND ug/L		1.0	1		12/22/13 16:37	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		12/22/13 16:37	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		12/22/13 16:37	79-00-5	
Trichloroethene	ND ug/L		1.0	1		12/22/13 16:37	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		12/22/13 16:37	75-69-4	
1,2,3-Trichloropropane	ND ug/L		1.0	1		12/22/13 16:37	96-18-4	
Vinyl acetate	ND ug/L		2.0	1		12/22/13 16:37	108-05-4	
Vinyl chloride	ND ug/L		1.0	1		12/22/13 16:37	75-01-4	
Xylene (Total)	ND ug/L		2.0	1		12/22/13 16:37	1330-20-7	
m&p-Xylene	ND ug/L		2.0	1		12/22/13 16:37	179601-23-1	
o-Xylene	ND ug/L		1.0	1		12/22/13 16:37	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	98 %		70-130	1		12/22/13 16:37	460-00-4	
1,2-Dichloroethane-d4 (S)	99 %		70-130	1		12/22/13 16:37	17060-07-0	
Toluene-d8 (S)	99 %		70-130	1		12/22/13 16:37	2037-26-5	

Sample: 1701-TB1		Lab ID: 92183280010	Collected: 12/11/13 00:00	Received: 12/13/13 14:12	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level Landfill</b>		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		12/22/13 16:53	67-64-1	
Acrylonitrile	ND ug/L		10.0	1		12/22/13 16:53	107-13-1	
Benzene	ND ug/L		1.0	1		12/22/13 16:53	71-43-2	
Bromochloromethane	ND ug/L		1.0	1		12/22/13 16:53	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		12/22/13 16:53	75-27-4	
Bromoform	ND ug/L		1.0	1		12/22/13 16:53	75-25-2	
Bromomethane	ND ug/L		2.0	1		12/22/13 16:53	74-83-9	
2-Butanone (MEK)	ND ug/L		5.0	1		12/22/13 16:53	78-93-3	
Carbon disulfide	ND ug/L		2.0	1		12/22/13 16:53	75-15-0	
Carbon tetrachloride	ND ug/L		1.0	1		12/22/13 16:53	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		12/22/13 16:53	108-90-7	
Chloroethane	ND ug/L		1.0	1		12/22/13 16:53	75-00-3	
Chloroform	ND ug/L		1.0	1		12/22/13 16:53	67-66-3	
Chloromethane	ND ug/L		1.0	1		12/22/13 16:53	74-87-3	
Dibromochloromethane	ND ug/L		1.0	1		12/22/13 16:53	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		12/22/13 16:53	106-93-4	
Dibromomethane	ND ug/L		1.0	1		12/22/13 16:53	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	1		12/22/13 16:53	95-50-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		12/22/13 16:53	106-46-7	
trans-1,4-Dichloro-2-butene	ND ug/L		1.0	1		12/22/13 16:53	110-57-6	
1,1-Dichloroethane	ND ug/L		1.0	1		12/22/13 16:53	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		12/22/13 16:53	107-06-2	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: CASWELL COUNTY LANDFILL

Pace Project No.: 92183280

Sample: 1701-TB1		Lab ID: 92183280010	Collected: 12/11/13 00:00	Received: 12/13/13 14:12	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level Landfill</b>		Analytical Method: EPA 8260						
1,1-Dichloroethene	ND ug/L		1.0	1		12/22/13 16:53	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		12/22/13 16:53	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		12/22/13 16:53	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		12/22/13 16:53	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		12/22/13 16:53	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		12/22/13 16:53	10061-02-6	
Ethylbenzene	ND ug/L		1.0	1		12/22/13 16:53	100-41-4	
2-Hexanone	ND ug/L		5.0	1		12/22/13 16:53	591-78-6	
Iodomethane	ND ug/L		5.0	1		12/22/13 16:53	74-88-4	
Methylene Chloride	ND ug/L		1.0	1		12/22/13 16:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	1		12/22/13 16:53	108-10-1	
Styrene	ND ug/L		1.0	1		12/22/13 16:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		12/22/13 16:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		12/22/13 16:53	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		12/22/13 16:53	127-18-4	
Toluene	ND ug/L		1.0	1		12/22/13 16:53	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		12/22/13 16:53	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		12/22/13 16:53	79-00-5	
Trichloroethene	ND ug/L		1.0	1		12/22/13 16:53	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		12/22/13 16:53	75-69-4	
1,2,3-Trichloropropane	ND ug/L		1.0	1		12/22/13 16:53	96-18-4	
Vinyl acetate	ND ug/L		2.0	1		12/22/13 16:53	108-05-4	
Vinyl chloride	ND ug/L		1.0	1		12/22/13 16:53	75-01-4	
Xylene (Total)	ND ug/L		2.0	1		12/22/13 16:53	1330-20-7	
m&p-Xylene	ND ug/L		2.0	1		12/22/13 16:53	179601-23-1	
o-Xylene	ND ug/L		1.0	1		12/22/13 16:53	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	99 %		70-130	1		12/22/13 16:53	460-00-4	
1,2-Dichloroethane-d4 (S)	100 %		70-130	1		12/22/13 16:53	17060-07-0	
Toluene-d8 (S)	98 %		70-130	1		12/22/13 16:53	2037-26-5	

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**QUALITY CONTROL DATA**

Project: CASWELL COUNTY LANDFILL  
 Pace Project No.: 92183280

QC Batch: MERP/5947 Analysis Method: EPA 7470  
 QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury  
 Associated Lab Samples: 92183280001, 92183280002, 92183280003, 92183280004, 92183280005, 92183280006, 92183280007, 92183280008, 92183280009

METHOD BLANK: 1105954 Matrix: Water  
 Associated Lab Samples: 92183280001, 92183280002, 92183280003, 92183280004, 92183280005, 92183280006, 92183280007, 92183280008, 92183280009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	12/14/13 14:55	

LABORATORY CONTROL SAMPLE: 1105955

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.5	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1105956 1105957

Parameter	Units	92183280001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Mercury	ug/L	ND	2.5	2.5	1.6	1.7	64	67	75-125	5	M1

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### QUALITY CONTROL DATA

Project: CASWELL COUNTY LANDFILL  
Pace Project No.: 92183280

QC Batch: MPRP/14880 Analysis Method: EPA 6010  
QC Batch Method: EPA 3010 Analysis Description: 6010 MET NC Groundwater  
Associated Lab Samples: 92183280001, 92183280002, 92183280003, 92183280004, 92183280005, 92183280006, 92183280007, 92183280008, 92183280009

METHOD BLANK: 1106765 Matrix: Water  
Associated Lab Samples: 92183280001, 92183280002, 92183280003, 92183280004, 92183280005, 92183280006, 92183280007, 92183280008, 92183280009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	ND	10.0	12/18/13 03:12	
Barium	ug/L	ND	5.0	12/18/13 03:12	
Cadmium	ug/L	ND	1.0	12/18/13 15:40	
Chromium	ug/L	ND	5.0	12/18/13 03:12	
Lead	ug/L	ND	5.0	12/18/13 03:12	
Selenium	ug/L	ND	10.0	12/18/13 03:12	
Silver	ug/L	ND	5.0	12/18/13 03:12	

LABORATORY CONTROL SAMPLE: 1106766

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	507	101	80-120	
Barium	ug/L	500	511	102	80-120	
Cadmium	ug/L	500	496	99	80-120	
Chromium	ug/L	500	487	97	80-120	
Lead	ug/L	500	497	99	80-120	
Selenium	ug/L	500	500	100	80-120	
Silver	ug/L	250	248	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1106767 1106768

Parameter	Units	92183280001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result					
Arsenic	ug/L	ND	500	500	540	538	108	107	75-125	0	
Barium	ug/L	31.2	500	500	544	542	102	102	75-125	0	
Cadmium	ug/L	ND	500	500	507	521	101	104	75-125	3	
Chromium	ug/L	ND	500	500	481	479	96	96	75-125	0	
Lead	ug/L	ND	500	500	490	488	97	97	75-125	0	
Selenium	ug/L	ND	500	500	528	527	104	104	75-125	0	
Silver	ug/L	ND	250	250	251	252	100	101	75-125	0	

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### QUALITY CONTROL DATA

Project: CASWELL COUNTY LANDFILL

Pace Project No.: 92183280

QC Batch: MSV/25327 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level Landfill  
 Associated Lab Samples: 92183280001, 92183280002, 92183280003, 92183280004, 92183280005, 92183280006, 92183280007, 92183280008, 92183280009, 92183280010

METHOD BLANK: 1111270 Matrix: Water  
 Associated Lab Samples: 92183280001, 92183280002, 92183280003, 92183280004, 92183280005, 92183280006, 92183280007, 92183280008, 92183280009, 92183280010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	12/22/13 12:56	
1,1,1-Trichloroethane	ug/L	ND	1.0	12/22/13 12:56	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	12/22/13 12:56	
1,1,2-Trichloroethane	ug/L	ND	1.0	12/22/13 12:56	
1,1-Dichloroethane	ug/L	ND	1.0	12/22/13 12:56	
1,1-Dichloroethene	ug/L	ND	1.0	12/22/13 12:56	
1,2,3-Trichloropropane	ug/L	ND	1.0	12/22/13 12:56	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	12/22/13 12:56	
1,2-Dichlorobenzene	ug/L	ND	1.0	12/22/13 12:56	
1,2-Dichloroethane	ug/L	ND	1.0	12/22/13 12:56	
1,2-Dichloropropane	ug/L	ND	1.0	12/22/13 12:56	
1,4-Dichlorobenzene	ug/L	ND	1.0	12/22/13 12:56	
2-Butanone (MEK)	ug/L	ND	5.0	12/22/13 12:56	
2-Hexanone	ug/L	ND	5.0	12/22/13 12:56	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	12/22/13 12:56	
Acetone	ug/L	ND	25.0	12/22/13 12:56	
Acrylonitrile	ug/L	ND	10.0	12/22/13 12:56	
Benzene	ug/L	ND	1.0	12/22/13 12:56	
Bromochloromethane	ug/L	ND	1.0	12/22/13 12:56	
Bromodichloromethane	ug/L	ND	1.0	12/22/13 12:56	
Bromoform	ug/L	ND	1.0	12/22/13 12:56	
Bromomethane	ug/L	ND	2.0	12/22/13 12:56	
Carbon disulfide	ug/L	ND	2.0	12/22/13 12:56	
Carbon tetrachloride	ug/L	ND	1.0	12/22/13 12:56	
Chlorobenzene	ug/L	ND	1.0	12/22/13 12:56	
Chloroethane	ug/L	ND	1.0	12/22/13 12:56	
Chloroform	ug/L	ND	1.0	12/22/13 12:56	
Chloromethane	ug/L	ND	1.0	12/22/13 12:56	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/22/13 12:56	
cis-1,3-Dichloropropene	ug/L	ND	1.0	12/22/13 12:56	
Dibromochloromethane	ug/L	ND	1.0	12/22/13 12:56	
Dibromomethane	ug/L	ND	1.0	12/22/13 12:56	
Ethylbenzene	ug/L	ND	1.0	12/22/13 12:56	
Iodomethane	ug/L	ND	5.0	12/22/13 12:56	
m&p-Xylene	ug/L	ND	2.0	12/22/13 12:56	
Methylene Chloride	ug/L	ND	1.0	12/22/13 12:56	
o-Xylene	ug/L	ND	1.0	12/22/13 12:56	
Styrene	ug/L	ND	1.0	12/22/13 12:56	
Tetrachloroethene	ug/L	ND	1.0	12/22/13 12:56	
Toluene	ug/L	ND	1.0	12/22/13 12:56	
trans-1,2-Dichloroethene	ug/L	ND	1.0	12/22/13 12:56	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: CASWELL COUNTY LANDFILL

Pace Project No.: 92183280

METHOD BLANK: 1111270

Matrix: Water

Associated Lab Samples: 92183280001, 92183280002, 92183280003, 92183280004, 92183280005, 92183280006, 92183280007, 92183280008, 92183280009, 92183280010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,3-Dichloropropene	ug/L	ND	1.0	12/22/13 12:56	
trans-1,4-Dichloro-2-butene	ug/L	ND	1.0	12/22/13 12:56	
Trichloroethene	ug/L	ND	1.0	12/22/13 12:56	
Trichlorofluoromethane	ug/L	ND	1.0	12/22/13 12:56	
Vinyl acetate	ug/L	ND	2.0	12/22/13 12:56	
Vinyl chloride	ug/L	ND	1.0	12/22/13 12:56	
Xylene (Total)	ug/L	ND	2.0	12/22/13 12:56	
1,2-Dichloroethane-d4 (S)	%	99	70-130	12/22/13 12:56	
4-Bromofluorobenzene (S)	%	98	70-130	12/22/13 12:56	
Toluene-d8 (S)	%	99	70-130	12/22/13 12:56	

LABORATORY CONTROL SAMPLE: 1111271

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	45.1	90	70-130	
1,1,1-Trichloroethane	ug/L	50	45.0	90	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	47.3	95	70-130	
1,1,2-Trichloroethane	ug/L	50	45.8	92	70-130	
1,1-Dichloroethane	ug/L	50	45.9	92	70-130	
1,1-Dichloroethene	ug/L	50	44.9	90	70-132	
1,2,3-Trichloropropane	ug/L	50	45.8	92	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	44.7	89	70-130	
1,2-Dichlorobenzene	ug/L	50	45.3	91	70-130	
1,2-Dichloroethane	ug/L	50	45.3	91	70-130	
1,2-Dichloropropane	ug/L	50	45.5	91	70-130	
1,4-Dichlorobenzene	ug/L	50	46.1	92	70-130	
2-Butanone (MEK)	ug/L	100	91.3	91	70-145	
2-Hexanone	ug/L	100	86.3	86	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	100	87.7	88	70-140	
Acetone	ug/L	100	89.4	89	50-175	
Acrylonitrile	ug/L	250	229	92	70-143	
Benzene	ug/L	50	48.1	96	70-130	
Bromochloromethane	ug/L	50	45.0	90	70-130	
Bromodichloromethane	ug/L	50	45.8	92	70-130	
Bromoform	ug/L	50	44.3	89	70-130	
Bromomethane	ug/L	50	46.9	94	54-130	
Carbon disulfide	ug/L	50	49.5	99	70-131	
Carbon tetrachloride	ug/L	50	45.4	91	70-132	
Chlorobenzene	ug/L	50	46.6	93	70-130	
Chloroethane	ug/L	50	49.7	99	64-134	
Chloroform	ug/L	50	47.2	94	70-130	
Chloromethane	ug/L	50	54.6	109	64-130	
cis-1,2-Dichloroethene	ug/L	50	44.8	90	70-131	
cis-1,3-Dichloropropene	ug/L	50	46.0	92	70-130	

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### QUALITY CONTROL DATA

Project: CASWELL COUNTY LANDFILL  
Pace Project No.: 92183280

LABORATORY CONTROL SAMPLE: 1111271

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromochloromethane	ug/L	50	43.7	87	70-130	
Dibromomethane	ug/L	50	45.8	92	70-131	
Ethylbenzene	ug/L	50	45.8	92	70-130	
Iodomethane	ug/L	100	83.2	83	49-180	
m&p-Xylene	ug/L	100	93.5	93	70-130	
Methylene Chloride	ug/L	50	49.0	98	63-130	
o-Xylene	ug/L	50	46.8	94	70-130	
Styrene	ug/L	50	46.4	93	70-130	
Tetrachloroethene	ug/L	50	45.6	91	70-130	
Toluene	ug/L	50	47.3	95	70-130	
trans-1,2-Dichloroethene	ug/L	50	45.0	90	70-130	
trans-1,3-Dichloropropene	ug/L	50	45.7	91	70-132	
trans-1,4-Dichloro-2-butene	ug/L	50	46.9	94	70-141	
Trichloroethene	ug/L	50	45.0	90	70-130	
Trichlorofluoromethane	ug/L	50	51.0	102	62-133	
Vinyl acetate	ug/L	100	109	109	66-157	
Vinyl chloride	ug/L	50	52.6	105	69-130	
Xylene (Total)	ug/L	150	140	93	70-130	
1,2-Dichloroethane-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1111272 1111273

Parameter	92183745005		MS		MSD		MS		MSD		% Rec Limits	RPD	Qual
	Units	Result	Spike Conc.	MS Spike Conc.	MS Result	MSD Result	% Rec	MSD % Rec					
1,1-Dichloroethene	ug/L	ND	50	50	30.9	32.7	62	65	70-166	6	M0		
Benzene	ug/L	ND	50	50	46.6	52.1	93	104	70-148	11			
Chlorobenzene	ug/L	ND	50	50	51.2	50.5	102	101	70-146	1			
Toluene	ug/L	ND	50	50	46.3	50.1	93	100	70-155	8			
Trichloroethene	ug/L	ND	50	50	48.7	54.9	97	110	69-151	12			
1,2-Dichloroethane-d4 (S)	%						93	98	70-130				
4-Bromofluorobenzene (S)	%						101	106	70-130				
Toluene-d8 (S)	%						97	106	70-130				

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## QUALIFIERS

Project: CASWELL COUNTY LANDFILL

Pace Project No.: 92183280

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### 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

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CASWELL COUNTY LANDFILL

Pace Project No.: 92183280

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92183280001	1701-MW1	EPA 3010	MPRP/14880	EPA 6010	ICP/13515
92183280002	1701-MW2	EPA 3010	MPRP/14880	EPA 6010	ICP/13515
92183280003	1701-MW3	EPA 3010	MPRP/14880	EPA 6010	ICP/13515
92183280004	1701-MW4	EPA 3010	MPRP/14880	EPA 6010	ICP/13515
92183280005	1701-MW5	EPA 3010	MPRP/14880	EPA 6010	ICP/13515
92183280006	1701-MW6	EPA 3010	MPRP/14880	EPA 6010	ICP/13515
92183280007	1701-SW1	EPA 3010	MPRP/14880	EPA 6010	ICP/13515
92183280008	1701-SW2	EPA 3010	MPRP/14880	EPA 6010	ICP/13515
92183280009	1701-DUPLICATE	EPA 3010	MPRP/14880	EPA 6010	ICP/13515
92183280001	1701-MW1	EPA 7470	MERP/5947	EPA 7470	MERC/5746
92183280002	1701-MW2	EPA 7470	MERP/5947	EPA 7470	MERC/5746
92183280003	1701-MW3	EPA 7470	MERP/5947	EPA 7470	MERC/5746
92183280004	1701-MW4	EPA 7470	MERP/5947	EPA 7470	MERC/5746
92183280005	1701-MW5	EPA 7470	MERP/5947	EPA 7470	MERC/5746
92183280006	1701-MW6	EPA 7470	MERP/5947	EPA 7470	MERC/5746
92183280007	1701-SW1	EPA 7470	MERP/5947	EPA 7470	MERC/5746
92183280008	1701-SW2	EPA 7470	MERP/5947	EPA 7470	MERC/5746
92183280009	1701-DUPLICATE	EPA 7470	MERP/5947	EPA 7470	MERC/5746
92183280001	1701-MW1	EPA 8260	MSV/25327		
92183280002	1701-MW2	EPA 8260	MSV/25327		
92183280003	1701-MW3	EPA 8260	MSV/25327		
92183280004	1701-MW4	EPA 8260	MSV/25327		
92183280005	1701-MW5	EPA 8260	MSV/25327		
92183280006	1701-MW6	EPA 8260	MSV/25327		
92183280007	1701-SW1	EPA 8260	MSV/25327		
92183280008	1701-SW2	EPA 8260	MSV/25327		
92183280009	1701-DUPLICATE	EPA 8260	MSV/25327		
92183280010	1701-TB1	EPA 8260	MSV/25327		

### REPORT OF LABORATORY ANALYSIS

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Document Name: **Sample Condition Upon Receipt (SCUR)**

Document Number:

**F-CHR-CS-03-rev.12**

Issuing Authority:

Pace Huntersville Quality Office

Client Name: S+ME

Where Received:  Huntersville  Asheville  Eden  Raleigh  Richmond, VA

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 T1102 T1301 Type of Ice: Wet Blue None  Samples on ice, cooling process has begun

Temp Correction Factor T1102: No Correction T1301: No Correction

Corrected Cooler Temp.: 3.1 C Biological Tissue is Frozen: Yes No N/A

Date and Initials of person examining contents: 12/13/13

Temp should be above freezing to 6°C

Comments:

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

Field Data Required? Y / N

Client Notification/ Resolution:

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

SCURF Review:

AMB  
AMB

Date:

12-13-13

SRF Review:

Date:

12-13-13

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#: 92183280



92183280



**APPENDIX C**  
**NC DENR Environmental Monitoring Reporting**  
**Form and Electronic Data**