

CASWELL COUNTY LANDFILL
Yanceyville, North Carolina
Semi-Annual Water Quality Monitoring Report
December 2010 Sampling Event
S&ME Project No. 1584-07-034

Prepared For:



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March 7, 2011



I hereby certify this 7th day of March 2011, that this report was prepared by me or under my direct supervision.



Report prepared by:



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1.0 EXECUTIVE SUMMARY

Six monitoring wells at the Caswell County Landfill were sampled on December 20, 2010. These 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 were analyzed by PACE Analytical Services, Inc. of Huntersville, North Carolina, a North Carolina certified laboratory. The six samples collected from the on-site monitoring wells were submitted for analysis of the North Carolina Landfill Appendix I volatile organic constituents and eight RCRA Metals.

Analytical results of the six water samples indicate that none of the 8-RCRA metals were detected at concentrations exceeding the corresponding 15A North Carolina Administrative Code (NCAC) 2L.0200 groundwater quality standards (2L Standard) during this event. The metals arsenic, barium, and chromium were detected in the samples collected from one or more groundwater monitoring wells during the December 20, 2010 monitoring event; however, at concentrations less than the corresponding NCAC 2L groundwater quality standards. There were no other metals detected above the method detection limit from any other groundwater monitoring wells during the December 20, 2010 monitoring event.

The volatile organic constituent benzene was detected in monitoring wells MW-2, MW-4, and MW-5 at reported concentrations above the corresponding NCAC 2L standard of 1 µg/L. The 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 NCAC 2L groundwater quality standard of 6 µg/L. Chlorobenzene, chloroethane, 1,2-dichlorobenzene, 1,1-dichloroethane, 4-Methyl-2-Pentanone, and o-xylene 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 NCAC 2L groundwater quality standard. No other volatile organic compounds were detected in the monitoring wells sampled during this event.

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 location 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 NCAC 2L exceedances 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. Due to the detection of these exceedances above the NCAC 2L groundwater quality 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 plans to address the NCAC 2L exceedances in accordance with regulatory requirements.

2.0 INTRODUCTION

S&ME Inc. (S&ME) has completed the December 2010 semi-annual monitoring event 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 1584-10-P063 dated April 7, 2010. 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 groundwater 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 8 RCRA metals. Groundwater monitoring wells were purged and groundwater samples were collected using new, disposable, Teflon bailers, or a sterile peristaltic pump with new Teflon tubing.

The facility also typically monitors surface water quality at the stream that crosses the downgradient 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 20, 2010 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 December 20, 2010 water quality monitoring event.

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 2010 groundwater monitoring year. The groundwater monitoring wells were purged, sampled, and the collected groundwater samples analyzed (in accordance with 15A NCAC 13B .0500 et seq) for the North Carolina Appendix I volatile organic constituents and the eight RCRA metals. This semi-annual groundwater monitoring report has been prepared to summarize the December 2010 groundwater monitoring event and includes:

- Summary Tables of the laboratory analytical data from each sampling event,
- Development of a potentiometric map incorporating the latest groundwater elevation data, and
- 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 20, 2010. The monitoring well locations with respect to the Facility layout are shown on **Figure 1**. A representative from S&ME opened each well and measured the static water level from the top edge of the PVC casing in the wells. 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, MW-2, 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, temperature, and turbidity (qualitative).

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, temperature, and turbidity (qualitative).

The field data collected during sampling was recorded on the groundwater sampling field data sheets included in **Appendix A** and summarized in **Table 2** 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 also took place on December 20, 2010. Two stream samples (SW-1 and SW-2) were collected from an unnamed tributary of Bear Branch, which flows along the eastern portion of the Facility and flows north to northwesterly 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 3 & 4**.

It should be noted that the PACE Analytical Laboratories Reporting Limits (RLs) do not match the North Carolina Solid Waste Section Limits (SWSLs) for the targeted parameters. However, for all parameters analyzed during the December 20, 2010 groundwater monitoring event, the PACE Analytical Laboratories Reporting Limits (RLs) are equal to or below the SWSLs for the respective parameters. S&ME prepared the analytical results summary tables included in this report following the conventions set forth by the NC DENR Solid Waste Section in that any value reported at a concentration below the North Carolina SWSLs is flagged as a “J” or estimated value on the summary tables.

The complete laboratory report is included in **Appendix B**. The following summarizes the groundwater sample analyses for the six wells (MW-1, MW-2, MW-3, MW-4, MW-5, and MW-6) sampled on December 20, 2010.

Metals:

Analytical results of the six groundwater samples indicate that none of the 8-RCRA metals were detected at concentrations exceeding the corresponding 15A NCAC 2L groundwater quality standards during this event. As summarized in Table 4, the metals arsenic, barium, and chromium were detected in the samples collected from one or more groundwater monitoring wells during the December 20, 2010 monitoring event; however, at concentrations less than the corresponding NCAC 2L groundwater quality standards. There were no other metals detected above the method detection limit from any other groundwater monitoring wells during the December 20, 2010 monitoring event.

Volatile Organic Compounds:

As summarized in Table 3, the volatile organic constituent benzene was detected in monitoring wells MW-2, MW-4, and MW-5 at reported concentrations above the NCAC 2L groundwater quality 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 NCAC 2L groundwater quality standard of 6 µg/L.

Chlorobenzene, chloroethane, 1,2-dichlorobenzene, 1,1-dichloroethane, 4-Methyl-2-Pentanone, and o-Xylene 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 NCAC 2L groundwater quality 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 either of the stream sampling locations. During the December 20, 2010 monitoring event barium was detected in the up-gradient background surface water sample SW-1 and the down-gradient sample location 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 during this sampling event.

5.3 Groundwater Flow Direction

The static water levels in the monitoring wells were measured on December 20, 2010. The depth to the water table ranged from 8.07 to 24.08 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 20, 2010 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

The monitoring wells were sampled using new, sterile Teflon disposable bailers or new Teflon and silicon tubing. For Quality Assurance a Duplicate sample was collected from monitoring well MW-3. The results of the detected constituents from the duplicate sample were similar in concentration to the results of the detected constituents reported in MW-3. 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 2010 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

It is believed that the cause of the 2L exceedances 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.

During December 2009, 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 exceedances occurred. 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.

Analytical results for stream sampling location SW-2 detected no target constituents other than naturally occurring barium, which was found at a similar concentration in the surface water sample collected up-gradient of the landfill (e.g. SW-1). It is on this basis that the current data set provides no evidence of the groundwater quality impacts stemming from a release from the landfill, are impacting adjacent surface water.

Due to the detection of exceedances of the NCAC 2L groundwater quality standards 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 plans to address the NCAC 2L 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 (November 8, 1993); 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 (April 1, 1991); 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 Data Summary (12/20/10)
Caswell County Landfill
Yanceyville, North Carolina
S&ME Project No. 1584-07-034

Static Water Levels				
Well No.	Ground Surface Elevation (topographic)	Depth of Well (feet)	December 20, 2010	
			(feet)	Elevation (feet)
MW-1	572	24.5	19.96	552.04
MW-2	526	22.3	20.33	505.67
MW-3	511	17.8	11.36	499.64
MW-4	526	36.0	24.08	501.92
MW-5	498	24.7	10.39	487.61
MW-6	489	16.2	8.07	480.93

*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

Table 2
Groundwater & Surface Water Field Data Summary (12/20/10)
Caswell County Landfill
Yanceyville, North Carolina
S&ME Project No. 1584-07-034

Location: MW-1							
Time	Date	Temp-C	Temp-F	pH	SpC-mS/cm	Turbidity	Depth to Water-feet
1510	20-Dec-10	13.6	56.5	6.28	1416	1	19.96
1520	20-Dec-10	14.7	58.5	6.3	1409	1	
1530	20-Dec-10	14.6	58.3	6.31	1394	1	

Location: MW-2							
Time	Date	Temp-C	Temp-F	pH	SpC-mS/cm	Turbidity	Depth to Water-feet
1000	20-Dec-10	13.8	56.8	6.59	142.1	1	20.33

Location: MW-3							
Time	Date	Temp-C	Temp-F	pH	SpC-mS/cm	Turbidity	Depth to Water-feet
1105	20-Dec-10	10.4	50.7	6.44	680	2	11.36
1115	20-Dec-10	10.8	51.4	6.45	670	1	
1125	20-Dec-10	10.6	51.1	6.56	672	1	
1135	20-Dec-10	10.2	50.4	6.54	671	1	

Location: MW-4							
Time	Date	Temp-C	Temp-F	pH	SpC-mS/cm	Turbidity	Depth to Water-feet
1025	20-Dec-10	14.6	58.3	6.57	1360	1	24.08
1035	20-Dec-10	14.3	57.7	6.58	1429	1	
1045	20-Dec-10	14.5	58.1	6.58	1415	1	

Location: MW-5							
Time	Date	Temp-C	Temp-F	pH	SpC-mS/cm	Turbidity	Depth to Water-feet
1220	20-Dec-10	10.2	50.4	6.67	1118.0	1	10.39
1230	20-Dec-10	11.4	52.5	6.65	1135.0	1	
1240	20-Dec-10	11.2	52.2	6.70	1141.0	1	

Location: MW-6							
Time	Date	Temp-C	Temp-F	pH	SpC-mS/cm	Turbidity	Depth to Water-feet
1315	20-Dec-10	12.7	54.9	7.06	203	1	8.07
1325	20-Dec-10	12.6	54.7	7.04	192.00	1	
1335	20-Dec-10	12.2	54.0	7.03	191.40	1	

Location: SW-1							
Time	Date	Temp-C	Temp-F	pH	SpC-mS/cm	Turbidity	Depth to Water-feet
1440	20-Dec-10	2.5	36.5	7.95	108.9	1	N/A

Location: SW-2							
Time	Date	Temp-C	Temp-F	pH	SpC-mS/cm	Turbidity	Depth to Water-feet
1410	20-Dec-10	2.1	35.8	7.35	135.4	1	N/A

N/A = Not Applicable

NM = Not Measured/recorded

Qualitative Turbidity; 1 = clear, 2 = slight, 3 = moderate, 4 = high

TABLE 3
GROUNDWATER ANALYTICAL RESULTS SUMMARY (12/20/10)
APPENDIX I - VOLATILE ORGANIC COMPOUNDS
CASWELL COUNTY LANDFILL
YANCEYVILLE, NORTH CAROLINA
S&ME PROJECT NO. 1584-07-034

Compound	Sample Locations							NC SWSL	NCAC 2L stds.
	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	Duplicate		
Benzene	ND	2.5	ND	2.7	1.5	ND	ND	1	1
Chlorobenzene	ND	32.2	10.1	27.3	9.5	ND	10	3	50
Chloroethane	ND	2.2 J	ND	1.7 J	3.3 J	ND	ND	10	3,000
1,4-Dichlorobenzene	ND	18.7	4.0	16.8	18.4	ND	3.7	1	6
1,2-Dichlorobenzene	ND	2.1 J	ND	2.7 J	2.9 J	ND	ND	5	20
1,1-Dichloroethane	ND	ND	ND	ND	1.3 J	ND	ND	5	6
4-Methyl-2-Pentanone	ND	ND	ND	7.1 J	ND	ND	ND	100	100*
O-Xylene	ND	1.0 J	ND	ND	ND	ND	ND	5	500

reported concentrations = micrograms per liter (ug/L)

NC SWSL = North Carolina Solid Waste Section Limit

ND = Analyte not detected

NE = No established 2L or NC SWSL Standard for this constituent

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

Yellow highlights indicate a measurement higher than the NC SWSL

Orange highlights indicate a measurement higher than 2L standards.

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

** Interim 2L Standard*

TABLE 4
GROUNDWATER ANALYTICAL RESULTS SUMMARY (12/20/10)
8-RCRA METALS
CASWELL COUNTY LANDFILL
YANCEYVILLE, NORTH CAROLINA
S&ME PROJECT NO. 1584-07-034

Constituent	Sample Locations							NC SWSL	NCAC 2L stds.
	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	Duplicate		
Arsenic	ND	5.5 J	ND	ND	ND	ND	ND	10	10
Barium	49.8 J	113	66.0 J	51.1 J	55.8 J	15.1 J	66.1J	100	700
Chromium	6.0 J	ND	ND	ND	ND	ND	ND	10	10

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, Groundwater Quality Standards for Class GA groundwater.

ns = no standard listed according to NCAC 2L

Yellow highlights indicate a measurement higher than the NC SWSL

Orange highlights indicate a measurement higher than 2L standards.

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

TABLE 5
SURFACE WATER ANALYTICAL RESULTS SUMMARY (12/20/10)
APPENDIX I - VOLATILE ORGANIC COMPOUNDS
CASWELL COUNTY LANDFILL
YANCEYVILLE, NORTH CAROLINA
S&ME PROJECT NO. 1584-07-034

Compound	Sample Locations		NC SWSL	15A NCAC 2B Standards*
	SW-1	SW-2		
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 6
SURFACE WATER ANALYTICAL RESULTS SUMMARY (12/20/10)
8-RCRA METALS
CASWELL COUNTY LANDFILL
YANCEYVILLE, NORTH CAROLINA
S&ME PROJECT NO. 1584-07-034

Constituent	Sample Locations		NC SWSL	15A NCAC 2B Standards*
	SW-1	SW-2		
Barium	25.6 J	28.7 J	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*

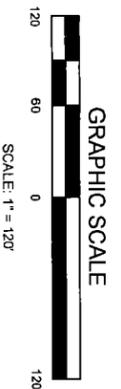
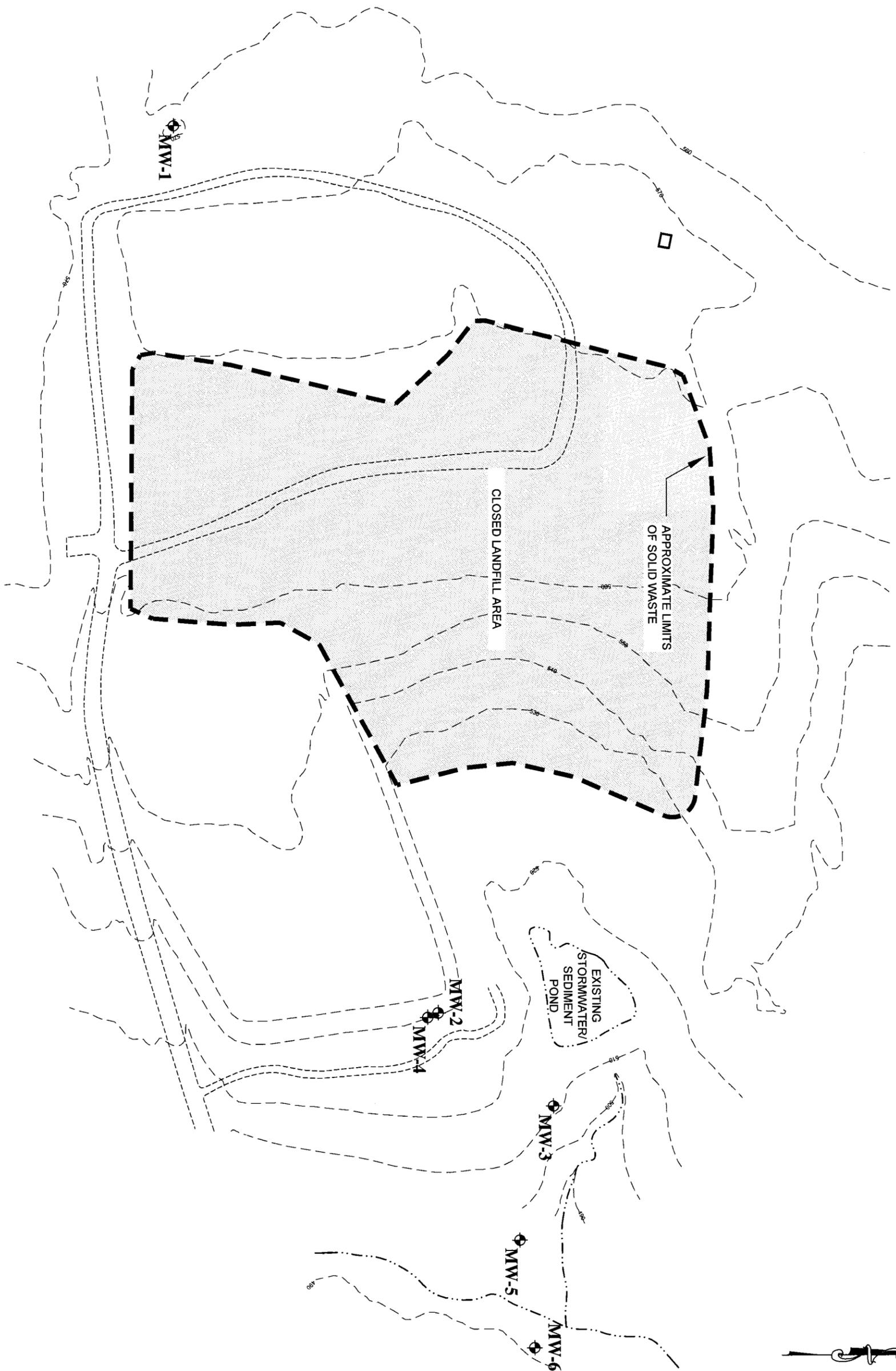
J = Parameters are estimated values between the detection limit and the NC SWSL.

Yellow highlights indicate a measurement higher than the NC SWSL

Orange highlights indicate a measurement higher than 2B standards.

FIGURES

KEY
 - MONITORING WELL LOCATION

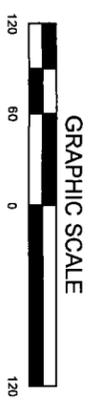
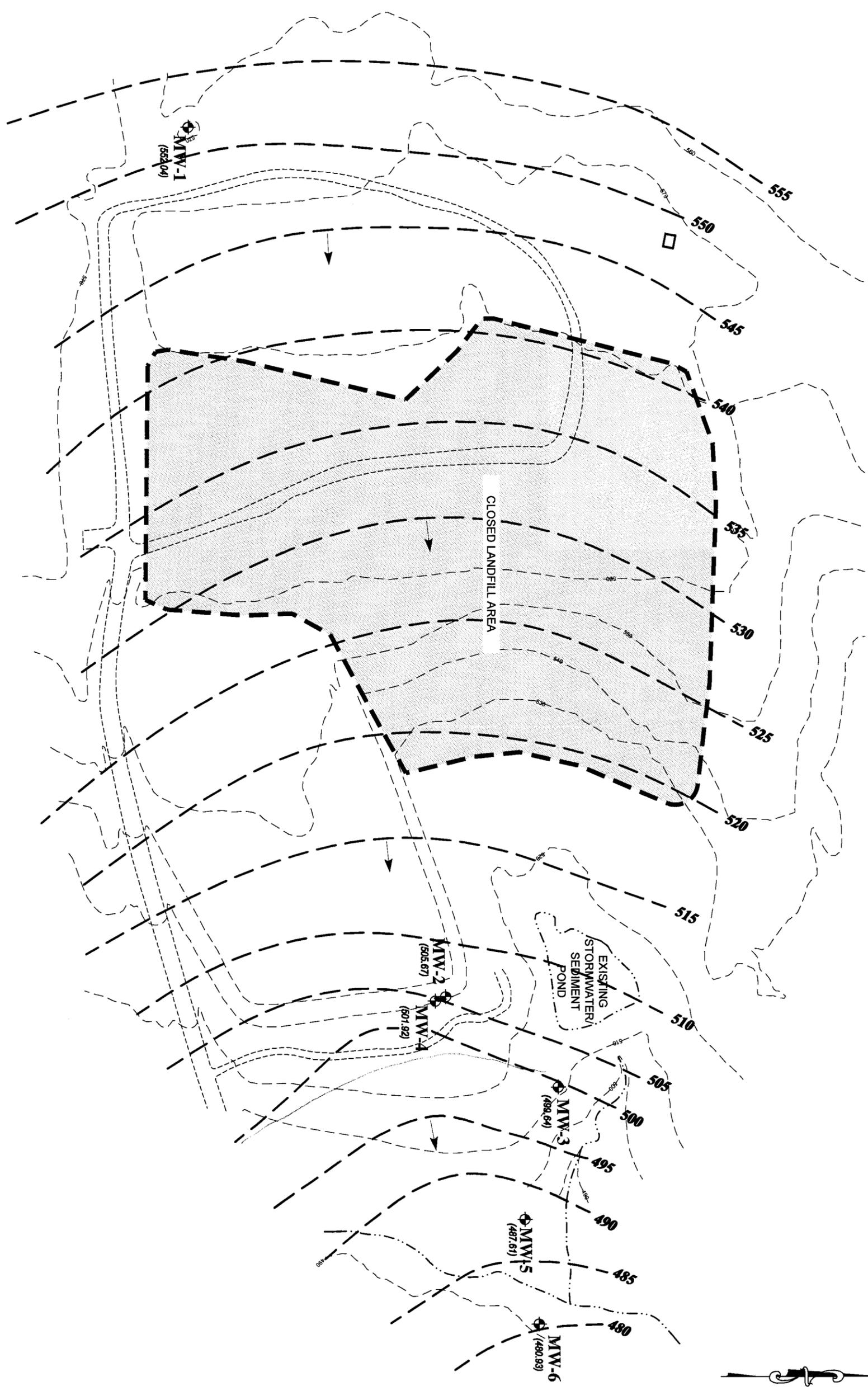


3718 OLD BATTLEGROUND ROAD
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SITE PLAN
 CASWELL COUNTY LANDFILL
 YANCEYVILLE, NORTH CAROLINA

SCALE: AS SHOWN	DRAWN BY: RDM	CHECKED BY: CDW
JOB NO. 1584-07-034	DATE: DECEMBER 2010	FIGURE NO. 1

- KEY**
- ⊕ - MONITORING WELL LOCATION
 - - - GROUNDWATER CONTOUR
 - (552.04) - GROUNDWATER ELEVATION MEASURED IN MONITORING WELL
 - - GROUNDWATER FLOW DIRECTION



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GROUNDWATER CONTOUR MAP
CASWELL COUNTY LANDFILL
YANCEYVILLE, NORTH CAROLINA

SCALE: AS SHOWN	DRAWN BY: RDM	CHECKED BY: CDW
JOB NO. 1584-07-034	DATE: DECEMBER 2010	FIGURE NO. 2

APPENDIX A

Groundwater Sampling Field Data Sheets

GROUNDWATER SAMPLING FIELD DATA

Location: <u>Caswell County Landfill</u>	Purge Date: <u>Monday, December 20, 2010</u>
Project No.: <u>1584-07-034</u>	Purge Time: _____
Source Well: <u>MW-3</u>	Sample Date: <u>Monday, December 20, 2010</u>
Locked?: Yes: <u> x </u> No: _____	Sample Time: <u>1145</u>
Sampled By: <u>Gary Simcox</u>	Weather: <u>Clear</u>
	Air Temp: <u>25* F</u>

Water Level & Well Data

Depth to water from measuring point:	<u>11.36</u>	feet
Depth to well bottom from measuring point:	<u>17.80</u>	feet
Height of water column:	<u>6.44</u>	feet
Measuring point:	<u>TOC</u>	

Well Purging & Sample Collection

Purge Method <u>Peristaltic Pump</u>	Sample Collection Time
Sample Method <u>Peristaltic Pump</u>	Start <u>1140</u> Stop <u>1150</u>
Purge Rate <u>200</u> ml/min	Purge Time
	Start <u>1055</u> Stop <u>1140</u>

Note: Duplicate taken at this location (0900 hrs)

Volume of water in well
 2" well:
 height: 6.44 x .163 = 1.05

Volume of water removed 11.97 gallons _____ liters x

Was well purged dry Yes _____ No x

Field Analyses

Stabilization Parameters

Volume Purged	liters	2	4	6	8					
Time:	1055	1105	1115	1125	1135					
Temp:	*C	10.40	10.80	10.60	10.20					
pH:		6.44	6.45	6.56	6.54					
Conductivity:	u S	680.00	670.00	672.00	671.00					
Turbidity		2.00	1.00	1.00	1.00					

GROUNDWATER SAMPLING FIELD DATA

Location: Caswell County Landfill
 Project No.: 1584-07-034
 Source Well: MW-4
 Locked?: Yes: No:
 Sampled By: Gary Simcox

Purge Date: Monday, December 20, 2010
 Purge Time: _____
 Sample Date: Monday, December 20, 2010
 Sample Time: 1045
 Weather: Clear
 Air Temp: 25* F

Water Level & Well Data

Depth to water from measuring point: 24.08 feet
 Depth to well bottom from measuring point: 36.00 feet
 Height of water column: 11.92 feet
 Measuring point: TOC

Well Purging & Sample Collection

Purge Method Bailer
 Sample Method Bailer
 Purge Rate _____ ml/min

Sample Collection Time
 Start _____ Stop _____
Purge Time
 Start _____ Stop _____

Volume of water in well
 2" well:
 height: 11.92 x .163 = 1.94

Volume of water removed _____ 5.83 gallons liters _____

Was well purged dry Yes _____ No

Field Analyses

Stabilization Parameters

Volume Purged	gals	1	3							
Time:										
Temp;	*C	14.60	14.30	14.50						
pH:		6.57	6.58	6.58						
Conductivity:	u S	1360.00	1429.00	1415.00						
Turbidity		1.00	1.00	1.00						

GROUNDWATER SAMPLING FIELD DATA

Location: Caswell County Landfill
 Project No.: 1584-07-034
 Source Well: MW-5
 Locked?: Yes: No:
 Sampled By: Gary Simcox

Purge Date: Monday, December 20, 2010
 Purge Time: _____
 Sample Date: Monday, December 20, 2010
 Sample Time: 1245
 Weather: Clear
 Air Temp: 25* F

Water Level & Well Data

Depth to water from measuring point: 10.39 feet
 Depth to well bottom from measuring point: 24.70 feet
 Height of water column: 14.31 feet
 Measuring point: TOC

Well Purging & Sample Collection

Purge Method Peristaltic Pump
 Sample Method Peristaltic Pump
 Purge Rate 200 ml/min

Sample Collection Time
 Start 1240 Stop 1250
Purge Time
 Start 1210 Stop 1240

Volume of water in well
 2" well:
 height: 14.31 x .163 = 2.33

Volume of water removed 26.59 gallons x liters

Was well purged dry Yes _____ No

Field Analyses Stabilization Parameters

Volume Purged	liters	2	4	6						
Time:		1210	1220	1230	1240					
Temp:	*C	10.20	11.40	11.20						
pH:		6.67	6.65	6.70						
Conductivity:	u S	1118.00	1135.00	1141.00						
Turbidity		1.00	1.00	1.00						

GROUNDWATER SAMPLING FIELD DATA

Location: Caswell County Landfill
 Project No.: 1584-07-034
 Source Well: MW-6
 Locked?: Yes: No:
 Sampled By: Gary Simcox

Purge Date: Monday, December 20, 2010
 Purge Time: _____
 Sample Date: Monday, December 20, 2010
 Sample Time: 1345
 Weather: Clear
 Air Temp: 25* F

Water Level & Well Data

Depth to water from measuring point: 8.07 feet
 Depth to well bottom from measuring point: 16.20 feet
 Height of water column: 8.13 feet
 Measuring point: TOC

Well Purging & Sample Collection

Purge Method Peristaltic Pump
 Sample Method Peristaltic Pump
 Purge Rate 200 ml/min

Sample Collection Time
 Start 1335 Stop 1345
Purge Time
 Start 1305 Stop 1335

Volume of water in well
 2" well:
 height: 8.13 x .163 = 1.33

Volume of water removed 15.11 gallons _____ liters x

Was well purged dry Yes _____ No x

Field Analyses

Stabilization Parameters

Volume Purged	liters	2	4	6						
Time:	1305	1315	1325	1335						
Temp:	*C	12.70	12.60	12.20						
pH:		7.06	7.04	7.03						
Conductivity:	u S	203.00	192.00	191.40						
Turbidity		1.00	1.00	1.00						

GROUNDWATER SAMPLING FIELD DATA

Location: <u>Caswell County Landfill</u>	Purge Date: _____
Project No.: <u>1584-07-034</u>	Purge Time: _____
Source Well: <u>SW-1</u>	Sample Date: <u>Monday, December 20, 2010</u>
	Sample Time: <u>1440</u>
Locked?: Yes: _____ No: _____	Weather: <u>Clear</u>
Sampled By: <u>Gary Simcox</u>	Air Temp: <u>25* F</u>

Water Level & Well Data

Depth to water from measuring point: _____ feet

Depth to well bottom from measuring point: _____ feet

Height of water column: 0 feet

Measuring point: _____

Well Purging & Sample Collection

Purge Method <u>n/a</u>	Sample Collection Time
Sample Method <u>Grab</u>	Start _____ Stop _____
Purge Rate _____ liters/mi	Purge Time
	Start _____ Stop _____

Volume of water in well

2" well:

height: 0 x .163 = 0.00

Volume of water removed 0.00 gallons _____ liters _____

Was well purged dry Yes _____ No _____

Field Analyses

Stabilization Parameters

Volume Purged									
Time:	1440								
Temp; *C	2.50								
pH:	7.95								
Conductivity: u S	108.90								
Turbidity	1.00								

Caswell County Landfill

1584-07-034

Date: Monday, December 20, 2010

Collected By: Gary Simcox

<u>Location</u>	<u>Water Level</u>
MW-1	19.96
MW-2	20.33
MW-3	11.36
MW-4	24.08
MW-5	10.39
MW-6	8.07

APPENDIX B

Laboratory Analytical Reports

January 07, 2011

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

RE: Project: CASWELL COUNTY LANDFILL
Pace Project No.: 9284821

Dear Mr. Howard:

Enclosed are the analytical results for sample(s) received by the laboratory on December 28, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated 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 Herring

kevin.herring@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

Page 1 of 37

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CERTIFICATIONS

Project: CASWELL COUNTY LANDFILL
Pace Project No.: 9284821

Charlotte Certification IDs

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
Pennsylvania Certification #: 68-00784
South Carolina Certification #: 99006001

South Carolina Drinking Water Cert. #: 99006003
Virginia Certification #: 00213
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DHH Drinking Water # LA 100031
West Virginia Certification #: 357

Asheville Certification IDs

2225 Riverside Dr., Asheville, NC 28804
Connecticut Certification #: PH-0106
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
New Jersey Certification #: NC011
North Carolina Bioassay Certification #: 9
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
Pennsylvania Certification #: 68-03578
South Carolina Bioassay Certification #: 99030002
South Carolina Certification #: 99030001
Virginia Certification #: 00072
West Virginia Certification #: 356

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: CASWELL COUNTY LANDFILL
Pace Project No.: 9284821

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9284821001	1701 MW1	EPA 6010	JMW	7	PASI-A
		EPA 7470	JMW	1	PASI-A
		EPA 8260	KJM	53	PASI-C
9284821002	1701 MW2	EPA 6010	JMW	7	PASI-A
		EPA 7470	JMW	1	PASI-A
		EPA 8260	KJM	53	PASI-C
9284821003	1701 MW3	EPA 6010	JMW	7	PASI-A
		EPA 7470	JMW	1	PASI-A
		EPA 8260	KJM	53	PASI-C
9284821004	1701 MW4	EPA 6010	JMW	7	PASI-A
		EPA 7470	JMW	1	PASI-A
		EPA 8260	KJM	53	PASI-C
9284821005	1701 MW5	EPA 6010	JMW	7	PASI-A
		EPA 7470	JMW	1	PASI-A
		EPA 8260	KJM	53	PASI-C
9284821006	1701 MW6	EPA 6010	JMW	7	PASI-A
		EPA 7470	JMW	1	PASI-A
		EPA 8260	KJM	53	PASI-C
9284821007	1701 SW1	EPA 6010	JMW	7	PASI-A
		EPA 7470	JMW	1	PASI-A
		EPA 8260	KJM	53	PASI-C
9284821008	1701 SW2	EPA 6010	JMW	7	PASI-A
		EPA 7470	JMW	1	PASI-A
		EPA 8260	KJM	53	PASI-C
9284821009	1701 DUPLICATE	EPA 6010	JMW	7	PASI-A
		EPA 7470	JMW	1	PASI-A
		EPA 8260	KJM	53	PASI-C

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: CASWELL COUNTY LANDFILL
Pace Project No.: 9284821

Method: EPA 6010
Description: 6010 ICP Groundwater
Client: Caswell County Landfill
Date: January 07, 2011

General Information:

9 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

PROJECT NARRATIVE

Project: CASWELL COUNTY LANDFILL
Pace Project No.: 9284821

Method: EPA 7470
Description: 7470 Mercury
Client: Caswell County Landfill
Date: January 07, 2011

General Information:

9 samples were analyzed for EPA 7470. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 7470 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MERP/3240

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 9284821001,9284821002

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

- MS (Lab ID: 549252)
 - Mercury
- MS (Lab ID: 549253)
 - Mercury

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

PROJECT NARRATIVE

Project: CASWELL COUNTY LANDFILL
Pace Project No.: 9284821

Method: EPA 8260
Description: 8260 MSV Low Level Landfill
Client: Caswell County Landfill
Date: January 07, 2011

General Information:

9 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

ANALYTICAL RESULTS

Project: CASWELL COUNTY LANDFILL
Sample Project No.: 9284821

Sample: 1701 MW1	Lab ID: 9284821001	Collected: 12/20/10 15:30	Received: 12/28/10 13:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Arsenic	ND ug/L		5.0	1	01/03/11 16:45	01/07/11 02:07	7440-38-2	
Barium	49.8 ug/L		5.0	1	01/03/11 16:45	01/07/11 02:07	7440-39-3	
Cadmium	ND ug/L		1.0	1	01/03/11 16:45	01/07/11 02:07	7440-43-9	
Chromium	6.0 ug/L		5.0	1	01/03/11 16:45	01/07/11 02:07	7440-47-3	
Lead	ND ug/L		5.0	1	01/03/11 16:45	01/07/11 02:07	7439-92-1	
Selenium	ND ug/L		10.0	1	01/03/11 16:45	01/07/11 02:07	7782-49-2	
Silver	ND ug/L		5.0	1	01/03/11 16:45	01/07/11 02:07	7440-22-4	
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470						
Mercury	ND ug/L		0.20	1	01/04/11 14:10	01/05/11 10:50	7439-97-6	
8260 MSV Low Level Landfill		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		12/29/10 15:53	67-64-1	
Acrylonitrile	ND ug/L		10.0	1		12/29/10 15:53	107-13-1	
Benzene	ND ug/L		1.0	1		12/29/10 15:53	71-43-2	
Bromochloromethane	ND ug/L		1.0	1		12/29/10 15:53	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		12/29/10 15:53	75-27-4	
Bromoform	ND ug/L		1.0	1		12/29/10 15:53	75-25-2	
Bromomethane	ND ug/L		2.0	1		12/29/10 15:53	74-83-9	
2-Butanone (MEK)	ND ug/L		5.0	1		12/29/10 15:53	78-93-3	
Carbon disulfide	ND ug/L		2.0	1		12/29/10 15:53	75-15-0	
Carbon tetrachloride	ND ug/L		1.0	1		12/29/10 15:53	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		12/29/10 15:53	108-90-7	
Chloroethane	ND ug/L		1.0	1		12/29/10 15:53	75-00-3	
Chloroform	ND ug/L		1.0	1		12/29/10 15:53	67-66-3	
Chloromethane	ND ug/L		1.0	1		12/29/10 15:53	74-87-3	
1,2-Dibromo-3-chloropropane	ND ug/L		5.0	1		12/29/10 15:53	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		12/29/10 15:53	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		12/29/10 15:53	106-93-4	
Dibromomethane	ND ug/L		1.0	1		12/29/10 15:53	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	1		12/29/10 15:53	95-50-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		12/29/10 15:53	106-46-7	
trans-1,4-Dichloro-2-butene	ND ug/L		1.0	1		12/29/10 15:53	110-57-6	
1,1-Dichloroethane	ND ug/L		1.0	1		12/29/10 15:53	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		12/29/10 15:53	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		12/29/10 15:53	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		12/29/10 15:53	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		12/29/10 15:53	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		12/29/10 15:53	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		12/29/10 15:53	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		12/29/10 15:53	10061-02-6	
Ethylbenzene	ND ug/L		1.0	1		12/29/10 15:53	100-41-4	
2-Hexanone	ND ug/L		5.0	1		12/29/10 15:53	591-78-6	
Iodomethane	ND ug/L		5.0	1		12/29/10 15:53	74-88-4	
Methylene Chloride	ND ug/L		1.0	1		12/29/10 15:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	1		12/29/10 15:53	108-10-1	

ANALYTICAL RESULTS

Project: CASWELL COUNTY LANDFILL
Pace Project No.: 9284821

Sample: 1701 MW1 **Lab ID: 9284821001** Collected: 12/20/10 15:30 Received: 12/28/10 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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8260 MSV Low Level Landfill

Analytical Method: EPA 8260

Styrene	ND	ug/L	1.0	1		12/29/10 15:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/29/10 15:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/29/10 15:53	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/29/10 15:53	127-18-4	
Toluene	ND	ug/L	1.0	1		12/29/10 15:53	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/29/10 15:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/29/10 15:53	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/29/10 15:53	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/29/10 15:53	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		12/29/10 15:53	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		12/29/10 15:53	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		12/29/10 15:53	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		12/29/10 15:53	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/29/10 15:53	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/29/10 15:53	95-47-6	
4-Bromofluorobenzene (S)	99	%	70-130	1		12/29/10 15:53	460-00-4	
Dibromofluoromethane (S)	104	%	70-130	1		12/29/10 15:53	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	70-130	1		12/29/10 15:53	17060-07-0	
Toluene-d8 (S)	96	%	70-130	1		12/29/10 15:53	2037-26-5	

Analytical Method: EPA 8260

Acetone	ND	ug/L	25.0	1		12/29/10 15:53	67-64-1	
Benzene	ND	ug/L	1.0	1		12/29/10 15:53	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/29/10 15:53	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/29/10 15:53	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/29/10 15:53	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/29/10 15:53	75-25-2	
Bromomethane	ND	ug/L	2.0	1		12/29/10 15:53	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		12/29/10 15:53	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		12/29/10 15:53	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/29/10 15:53	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/29/10 15:53	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/29/10 15:53	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/29/10 15:53	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/29/10 15:53	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/29/10 15:53	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		12/29/10 15:53	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/29/10 15:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/29/10 15:53	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		12/29/10 15:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/29/10 15:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/29/10 15:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/29/10 15:53	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/29/10 15:53	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/29/10 15:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/29/10 15:53	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/29/10 15:53	75-35-4	

Date: 01/07/2011 03:12 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CASWELL COUNTY LANDFILL
Pace Project No.: 9284821

Sample: 1701 MW1	Lab ID: 9284821001	Collected: 12/20/10 15:30	Received: 12/28/10 13:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Analytical Method: EPA 8260								
cis-1,2-Dichloroethene	ND ug/L		1.0	1		12/29/10 15:53	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		12/29/10 15:53	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		12/29/10 15:53	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	1		12/29/10 15:53	142-28-9	
2,2-Dichloropropane	ND ug/L		1.0	1		12/29/10 15:53	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	1		12/29/10 15:53	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		12/29/10 15:53	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		12/29/10 15:53	10061-02-6	
Diisopropyl ether	ND ug/L		1.0	1		12/29/10 15:53	108-20-3	
Ethylbenzene	ND ug/L		1.0	1		12/29/10 15:53	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		1.0	1		12/29/10 15:53	87-68-3	
2-Hexanone	ND ug/L		5.0	1		12/29/10 15:53	591-78-6	
p-Isopropyltoluene	ND ug/L		1.0	1		12/29/10 15:53	99-87-6	
Methylene Chloride	ND ug/L		2.0	1		12/29/10 15:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	1		12/29/10 15:53	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		12/29/10 15:53	1634-04-4	
Naphthalene	ND ug/L		1.0	1		12/29/10 15:53	91-20-3	
Styrene	ND ug/L		1.0	1		12/29/10 15:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		12/29/10 15:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		12/29/10 15:53	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		12/29/10 15:53	127-18-4	
Toluene	ND ug/L		1.0	1		12/29/10 15:53	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	1		12/29/10 15:53	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		12/29/10 15:53	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	1		12/29/10 15:53	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		12/29/10 15:53	79-00-5	
Trichloroethene	ND ug/L		1.0	1		12/29/10 15:53	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		12/29/10 15:53	75-69-4	
1,2,3-Trichloropropane	ND ug/L		1.0	1		12/29/10 15:53	96-18-4	
Vinyl acetate	ND ug/L		2.0	1		12/29/10 15:53	108-05-4	
Vinyl chloride	ND ug/L		1.0	1		12/29/10 15:53	75-01-4	
m&p-Xylene	ND ug/L		2.0	1		12/29/10 15:53	179601-23-1	
o-Xylene	ND ug/L		1.0	1		12/29/10 15:53	95-47-6	
4-Bromofluorobenzene (S)	99 %		70-130	1		12/29/10 15:53	460-00-4	
Dibromofluoromethane (S)	104 %		70-130	1		12/29/10 15:53	1868-53-7	
1,2-Dichloroethane-d4 (S)	106 %		70-130	1		12/29/10 15:53	17060-07-0	
Toluene-d8 (S)	96 %		70-130	1		12/29/10 15:53	2037-26-5	

ANALYTICAL RESULTS

Project: CASWELL COUNTY LANDFILL
Pace Project No.: 9284821

Sample: 1701 MW2	Lab ID: 9284821002	Collected: 12/20/10 10:00	Received: 12/28/10 13:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Arsenic	5.5 ug/L		5.0	1	01/03/11 16:45	01/07/11 02:10	7440-38-2	
Barium	113 ug/L		5.0	1	01/03/11 16:45	01/07/11 02:10	7440-39-3	
Cadmium	ND ug/L		1.0	1	01/03/11 16:45	01/07/11 02:10	7440-43-9	
Chromium	ND ug/L		5.0	1	01/03/11 16:45	01/07/11 02:10	7440-47-3	
Lead	ND ug/L		5.0	1	01/03/11 16:45	01/07/11 02:10	7439-92-1	
Selenium	ND ug/L		10.0	1	01/03/11 16:45	01/07/11 02:10	7782-49-2	
Silver	ND ug/L		5.0	1	01/03/11 16:45	01/07/11 02:10	7440-22-4	
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470						
Mercury	ND ug/L		0.20	1	01/04/11 14:10	01/05/11 10:50	7439-97-6	
8260 MSV Low Level Landfill		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		12/29/10 16:18	67-64-1	
Acrylonitrile	ND ug/L		10.0	1		12/29/10 16:18	107-13-1	
Benzene	2.5 ug/L		1.0	1		12/29/10 16:18	71-43-2	
Bromochloromethane	ND ug/L		1.0	1		12/29/10 16:18	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		12/29/10 16:18	75-27-4	
Bromoform	ND ug/L		1.0	1		12/29/10 16:18	75-25-2	
Bromomethane	ND ug/L		2.0	1		12/29/10 16:18	74-83-9	
2-Butanone (MEK)	ND ug/L		5.0	1		12/29/10 16:18	78-93-3	
Carbon disulfide	ND ug/L		2.0	1		12/29/10 16:18	75-15-0	
Carbon tetrachloride	ND ug/L		1.0	1		12/29/10 16:18	56-23-5	
Chlorobenzene	32.2 ug/L		1.0	1		12/29/10 16:18	108-90-7	
Chloroethane	2.2 ug/L		1.0	1		12/29/10 16:18	75-00-3	
Chloroform	ND ug/L		1.0	1		12/29/10 16:18	67-66-3	
Chloromethane	ND ug/L		1.0	1		12/29/10 16:18	74-87-3	
1,2-Dibromo-3-chloropropane	ND ug/L		5.0	1		12/29/10 16:18	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		12/29/10 16:18	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		12/29/10 16:18	106-93-4	
Dibromomethane	ND ug/L		1.0	1		12/29/10 16:18	74-95-3	
1,2-Dichlorobenzene	2.1 ug/L		1.0	1		12/29/10 16:18	95-50-1	
1,4-Dichlorobenzene	18.7 ug/L		1.0	1		12/29/10 16:18	106-46-7	
trans-1,4-Dichloro-2-butene	ND ug/L		1.0	1		12/29/10 16:18	110-57-6	
1,1-Dichloroethane	ND ug/L		1.0	1		12/29/10 16:18	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		12/29/10 16:18	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		12/29/10 16:18	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		12/29/10 16:18	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		12/29/10 16:18	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		12/29/10 16:18	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		12/29/10 16:18	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		12/29/10 16:18	10061-02-6	
Ethylbenzene	ND ug/L		1.0	1		12/29/10 16:18	100-41-4	
2-Hexanone	ND ug/L		5.0	1		12/29/10 16:18	591-78-6	
Iodomethane	ND ug/L		5.0	1		12/29/10 16:18	74-88-4	
Methylene Chloride	ND ug/L		1.0	1		12/29/10 16:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	1		12/29/10 16:18	108-10-1	

ANALYTICAL RESULTS

Project: CASWELL COUNTY LANDFILL
Pace Project No.: 9284821

Sample: 1701 MW2		Lab ID: 9284821002	Collected: 12/20/10 10:00	Received: 12/28/10 13:10	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill		Analytical Method: EPA 8260						
Styrene	ND	ug/L	1.0	1		12/29/10 16:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/29/10 16:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/29/10 16:18	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/29/10 16:18	127-18-4	
Toluene	ND	ug/L	1.0	1		12/29/10 16:18	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/29/10 16:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/29/10 16:18	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/29/10 16:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/29/10 16:18	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		12/29/10 16:18	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		12/29/10 16:18	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		12/29/10 16:18	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		12/29/10 16:18	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/29/10 16:18	179601-23-1	
o-Xylene	1.0	ug/L	1.0	1		12/29/10 16:18	95-47-6	
4-Bromofluorobenzene (S)	97	%	70-130	1		12/29/10 16:18	460-00-4	
Dibromofluoromethane (S)	109	%	70-130	1		12/29/10 16:18	1868-53-7	
1,2-Dichloroethane-d4 (S)	107	%	70-130	1		12/29/10 16:18	17060-07-0	
Toluene-d8 (S)	96	%	70-130	1		12/29/10 16:18	2037-26-5	

ANALYTICAL RESULTS

Project: CASWELL COUNTY LANDFILL
Pace Project No.: 9284821

Sample: 1701 MW3	Lab ID: 9284821003	Collected: 12/20/10 11:45	Received: 12/28/10 13:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Arsenic	ND	ug/L	5.0	1	01/03/11 16:45	01/07/11 02:25	7440-38-2	
Barium	66.0	ug/L	5.0	1	01/03/11 16:45	01/07/11 02:25	7440-39-3	
Cadmium	ND	ug/L	1.0	1	01/03/11 16:45	01/07/11 02:25	7440-43-9	
Chromium	ND	ug/L	5.0	1	01/03/11 16:45	01/07/11 02:25	7440-47-3	
Lead	ND	ug/L	5.0	1	01/03/11 16:45	01/07/11 02:25	7439-92-1	
Selenium	ND	ug/L	10.0	1	01/03/11 16:45	01/07/11 02:25	7782-49-2	
Silver	ND	ug/L	5.0	1	01/03/11 16:45	01/07/11 02:25	7440-22-4	
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470						
Mercury	ND	ug/L	0.20	1	01/04/11 14:10	01/05/11 10:50	7439-97-6	
8260 MSV Low Level Landfill		Analytical Method: EPA 8260						
Acetone	ND	ug/L	25.0	1		12/29/10 16:44	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		12/29/10 16:44	107-13-1	
Benzene	ND	ug/L	1.0	1		12/29/10 16:44	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		12/29/10 16:44	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/29/10 16:44	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/29/10 16:44	75-25-2	
Bromomethane	ND	ug/L	2.0	1		12/29/10 16:44	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		12/29/10 16:44	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		12/29/10 16:44	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		12/29/10 16:44	56-23-5	
Chlorobenzene	10.1	ug/L	1.0	1		12/29/10 16:44	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/29/10 16:44	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/29/10 16:44	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/29/10 16:44	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		12/29/10 16:44	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/29/10 16:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/29/10 16:44	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		12/29/10 16:44	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/29/10 16:44	95-50-1	
1,4-Dichlorobenzene	4.0	ug/L	1.0	1		12/29/10 16:44	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		12/29/10 16:44	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/29/10 16:44	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/29/10 16:44	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/29/10 16:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/29/10 16:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/29/10 16:44	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/29/10 16:44	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/29/10 16:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/29/10 16:44	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		12/29/10 16:44	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		12/29/10 16:44	591-78-6	
Iodomethane	ND	ug/L	5.0	1		12/29/10 16:44	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		12/29/10 16:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		12/29/10 16:44	108-10-1	

Date: 01/07/2011 03:12 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CASWELL COUNTY LANDFILL
Pace Project No.: 9284821

Sample: 1701 MW3	Lab ID: 9284821003	Collected: 12/20/10 11:45	Received: 12/28/10 13:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Styrene	ND ug/L		1.0	1		12/29/10 16:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		12/29/10 16:44	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		12/29/10 16:44	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		12/29/10 16:44	127-18-4	
Toluene	ND ug/L		1.0	1		12/29/10 16:44	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		12/29/10 16:44	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		12/29/10 16:44	79-00-5	
Trichloroethene	ND ug/L		1.0	1		12/29/10 16:44	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		12/29/10 16:44	75-69-4	
1,2,3-Trichloropropane	ND ug/L		1.0	1		12/29/10 16:44	96-18-4	
Vinyl acetate	ND ug/L		2.0	1		12/29/10 16:44	108-05-4	
Vinyl chloride	ND ug/L		1.0	1		12/29/10 16:44	75-01-4	
Xylene (Total)	ND ug/L		2.0	1		12/29/10 16:44	1330-20-7	
m&p-Xylene	ND ug/L		2.0	1		12/29/10 16:44	179601-23-1	
o-Xylene	ND ug/L		1.0	1		12/29/10 16:44	95-47-6	
4-Bromofluorobenzene (S)	103 %		70-130	1		12/29/10 16:44	460-00-4	
Dibromofluoromethane (S)	107 %		70-130	1		12/29/10 16:44	1868-53-7	
1,2-Dichloroethane-d4 (S)	110 %		70-130	1		12/29/10 16:44	17060-07-0	
Toluene-d8 (S)	94 %		70-130	1		12/29/10 16:44	2037-26-5	

ANALYTICAL RESULTS

Project: CASWELL COUNTY LANDFILL
Pace Project No.: 9284821

Sample: 1701 MW4	Lab ID: 9284821004	Collected: 12/20/10 10:45	Received: 12/28/10 13:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	ND	ug/L	5.0	1	01/03/11 16:45	01/07/11 02:28	7440-38-2	
Barium	51.1	ug/L	5.0	1	01/03/11 16:45	01/07/11 02:28	7440-39-3	
Cadmium	ND	ug/L	1.0	1	01/03/11 16:45	01/07/11 02:28	7440-43-9	
Chromium	ND	ug/L	5.0	1	01/03/11 16:45	01/07/11 02:28	7440-47-3	
Lead	ND	ug/L	5.0	1	01/03/11 16:45	01/07/11 02:28	7439-92-1	
Selenium	ND	ug/L	10.0	1	01/03/11 16:45	01/07/11 02:28	7782-49-2	
Silver	ND	ug/L	5.0	1	01/03/11 16:45	01/07/11 02:28	7440-22-4	
7470 Mercury								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	1	01/04/11 14:10	01/05/11 10:50	7439-97-6	
8260 MSV Low Level Landfill								
Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	1		12/29/10 17:09	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		12/29/10 17:09	107-13-1	
Benzene	2.7	ug/L	1.0	1		12/29/10 17:09	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		12/29/10 17:09	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/29/10 17:09	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/29/10 17:09	75-25-2	
Bromomethane	ND	ug/L	2.0	1		12/29/10 17:09	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		12/29/10 17:09	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		12/29/10 17:09	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		12/29/10 17:09	56-23-5	
Chlorobenzene	27.3	ug/L	1.0	1		12/29/10 17:09	108-90-7	
Chloroethane	1.7	ug/L	1.0	1		12/29/10 17:09	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/29/10 17:09	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/29/10 17:09	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		12/29/10 17:09	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/29/10 17:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/29/10 17:09	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		12/29/10 17:09	74-95-3	
1,2-Dichlorobenzene	2.7	ug/L	1.0	1		12/29/10 17:09	95-50-1	
1,4-Dichlorobenzene	16.8	ug/L	1.0	1		12/29/10 17:09	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		12/29/10 17:09	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/29/10 17:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/29/10 17:09	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/29/10 17:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/29/10 17:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/29/10 17:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/29/10 17:09	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/29/10 17:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/29/10 17:09	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		12/29/10 17:09	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		12/29/10 17:09	591-78-6	
Iodomethane	ND	ug/L	5.0	1		12/29/10 17:09	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		12/29/10 17:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	7.1	ug/L	5.0	1		12/29/10 17:09	108-10-1	

ANALYTICAL RESULTS

Project: CASWELL COUNTY LANDFILL
Pace Project No.: 9284821

Sample: 1701 MW4		Lab ID: 9284821004	Collected: 12/20/10 10:45	Received: 12/28/10 13:10	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill		Analytical Method: EPA 8260						
Styrene	ND ug/L		1.0	1		12/29/10 17:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		12/29/10 17:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		12/29/10 17:09	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		12/29/10 17:09	127-18-4	
Toluene	ND ug/L		1.0	1		12/29/10 17:09	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		12/29/10 17:09	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		12/29/10 17:09	79-00-5	
Trichloroethene	ND ug/L		1.0	1		12/29/10 17:09	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		12/29/10 17:09	75-69-4	
1,2,3-Trichloropropane	ND ug/L		1.0	1		12/29/10 17:09	96-18-4	
Vinyl acetate	ND ug/L		2.0	1		12/29/10 17:09	108-05-4	
Vinyl chloride	ND ug/L		1.0	1		12/29/10 17:09	75-01-4	
Xylene (Total)	ND ug/L		2.0	1		12/29/10 17:09	1330-20-7	
m&p-Xylene	ND ug/L		2.0	1		12/29/10 17:09	179601-23-1	
o-Xylene	ND ug/L		1.0	1		12/29/10 17:09	95-47-6	
4-Bromofluorobenzene (S)	99 %		70-130	1		12/29/10 17:09	460-00-4	
Dibromofluoromethane (S)	106 %		70-130	1		12/29/10 17:09	1868-53-7	
1,2-Dichloroethane-d4 (S)	107 %		70-130	1		12/29/10 17:09	17060-07-0	
Toluene-d8 (S)	94 %		70-130	1		12/29/10 17:09	2037-26-5	

ANALYTICAL RESULTS

Project: CASWELL COUNTY LANDFILL
Pace Project No.: 9284821

Sample: 1701 MW5	Lab ID: 9284821005	Collected: 12/20/10 12:45	Received: 12/28/10 13:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Arsenic	ND ug/L		5.0	1	01/03/11 16:45	01/07/11 02:32	7440-38-2	
Barium	55.8 ug/L		5.0	1	01/03/11 16:45	01/07/11 02:32	7440-39-3	
Cadmium	ND ug/L		1.0	1	01/03/11 16:45	01/07/11 02:32	7440-43-9	
Chromium	ND ug/L		5.0	1	01/03/11 16:45	01/07/11 02:32	7440-47-3	
Lead	ND ug/L		5.0	1	01/03/11 16:45	01/07/11 02:32	7439-92-1	
Selenium	ND ug/L		10.0	1	01/03/11 16:45	01/07/11 02:32	7782-49-2	
Silver	ND ug/L		5.0	1	01/03/11 16:45	01/07/11 02:32	7440-22-4	
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470						
Mercury	ND ug/L		0.20	1	01/04/11 14:10	01/05/11 10:50	7439-97-6	
8260 MSV Low Level Landfill		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		12/29/10 17:35	67-64-1	
Acrylonitrile	ND ug/L		10.0	1		12/29/10 17:35	107-13-1	
Benzene	1.5 ug/L		1.0	1		12/29/10 17:35	71-43-2	
Bromochloromethane	ND ug/L		1.0	1		12/29/10 17:35	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		12/29/10 17:35	75-27-4	
Bromoform	ND ug/L		1.0	1		12/29/10 17:35	75-25-2	
Bromomethane	ND ug/L		2.0	1		12/29/10 17:35	74-83-9	
2-Butanone (MEK)	ND ug/L		5.0	1		12/29/10 17:35	78-93-3	
Carbon disulfide	ND ug/L		2.0	1		12/29/10 17:35	75-15-0	
Carbon tetrachloride	ND ug/L		1.0	1		12/29/10 17:35	56-23-5	
Chlorobenzene	9.5 ug/L		1.0	1		12/29/10 17:35	108-90-7	
Chloroethane	3.3 ug/L		1.0	1		12/29/10 17:35	75-00-3	
Chloroform	ND ug/L		1.0	1		12/29/10 17:35	67-66-3	
Chloromethane	ND ug/L		1.0	1		12/29/10 17:35	74-87-3	
1,2-Dibromo-3-chloropropane	ND ug/L		5.0	1		12/29/10 17:35	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		12/29/10 17:35	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		12/29/10 17:35	106-93-4	
Dibromomethane	ND ug/L		1.0	1		12/29/10 17:35	74-95-3	
1,2-Dichlorobenzene	2.9 ug/L		1.0	1		12/29/10 17:35	95-50-1	
1,4-Dichlorobenzene	18.4 ug/L		1.0	1		12/29/10 17:35	106-46-7	
trans-1,4-Dichloro-2-butene	ND ug/L		1.0	1		12/29/10 17:35	110-57-6	
1,1-Dichloroethane	1.3 ug/L		1.0	1		12/29/10 17:35	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		12/29/10 17:35	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		12/29/10 17:35	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		12/29/10 17:35	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		12/29/10 17:35	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		12/29/10 17:35	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		12/29/10 17:35	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		12/29/10 17:35	10061-02-6	
Ethylbenzene	ND ug/L		1.0	1		12/29/10 17:35	100-41-4	
2-Hexanone	ND ug/L		5.0	1		12/29/10 17:35	591-78-6	
Iodomethane	ND ug/L		5.0	1		12/29/10 17:35	74-88-4	
Methylene Chloride	ND ug/L		1.0	1		12/29/10 17:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	1		12/29/10 17:35	108-10-1	

ANALYTICAL RESULTS

Project: CASWELL COUNTY LANDFILL
Pace Project No.: 9284821

Sample: 1701 MW5	Lab ID: 9284821005	Collected: 12/20/10 12:45	Received: 12/28/10 13:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill		Analytical Method: EPA 8260						
Styrene	ND	ug/L	1.0	1		12/29/10 17:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/29/10 17:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/29/10 17:35	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/29/10 17:35	127-18-4	
Toluene	ND	ug/L	1.0	1		12/29/10 17:35	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/29/10 17:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/29/10 17:35	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/29/10 17:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/29/10 17:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		12/29/10 17:35	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		12/29/10 17:35	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		12/29/10 17:35	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		12/29/10 17:35	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/29/10 17:35	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/29/10 17:35	95-47-6	
4-Bromofluorobenzene (S)	102	%	70-130	1		12/29/10 17:35	460-00-4	
Dibromofluoromethane (S)	107	%	70-130	1		12/29/10 17:35	1868-53-7	
1,2-Dichloroethane-d4 (S)	108	%	70-130	1		12/29/10 17:35	17060-07-0	
Toluene-d8 (S)	95	%	70-130	1		12/29/10 17:35	2037-26-5	

ANALYTICAL RESULTS

Project: CASWELL COUNTY LANDFILL
Pace Project No.: 9284821

Sample: 1701 MW6	Lab ID: 9284821006	Collected: 12/20/10 13:45	Received: 12/28/10 13:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Arsenic	ND ug/L		5.0	1	01/03/11 16:45	01/07/11 02:37	7440-38-2	
Barium	15.1 ug/L		5.0	1	01/03/11 16:45	01/07/11 02:37	7440-39-3	
Cadmium	ND ug/L		1.0	1	01/03/11 16:45	01/07/11 02:37	7440-43-9	
Chromium	ND ug/L		5.0	1	01/03/11 16:45	01/07/11 02:37	7440-47-3	
Lead	ND ug/L		5.0	1	01/03/11 16:45	01/07/11 02:37	7439-92-1	
Selenium	ND ug/L		10.0	1	01/03/11 16:45	01/07/11 02:37	7782-49-2	
Silver	ND ug/L		5.0	1	01/03/11 16:45	01/07/11 02:37	7440-22-4	
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470						
Mercury	ND ug/L		0.20	1	01/04/11 14:10	01/05/11 10:50	7439-97-6	
8260 MSV Low Level Landfill		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		12/29/10 18:00	67-64-1	
Acrylonitrile	ND ug/L		10.0	1		12/29/10 18:00	107-13-1	
Benzene	ND ug/L		1.0	1		12/29/10 18:00	71-43-2	
Bromochloromethane	ND ug/L		1.0	1		12/29/10 18:00	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		12/29/10 18:00	75-27-4	
Bromoform	ND ug/L		1.0	1		12/29/10 18:00	75-25-2	
Bromomethane	ND ug/L		2.0	1		12/29/10 18:00	74-83-9	
2-Butanone (MEK)	ND ug/L		5.0	1		12/29/10 18:00	78-93-3	
Carbon disulfide	ND ug/L		2.0	1		12/29/10 18:00	75-15-0	
Carbon tetrachloride	ND ug/L		1.0	1		12/29/10 18:00	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		12/29/10 18:00	108-90-7	
Chloroethane	ND ug/L		1.0	1		12/29/10 18:00	75-00-3	
Chloroform	ND ug/L		1.0	1		12/29/10 18:00	67-66-3	
Chloromethane	ND ug/L		1.0	1		12/29/10 18:00	74-87-3	
1,2-Dibromo-3-chloropropane	ND ug/L		5.0	1		12/29/10 18:00	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		12/29/10 18:00	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		12/29/10 18:00	106-93-4	
Dibromomethane	ND ug/L		1.0	1		12/29/10 18:00	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	1		12/29/10 18:00	95-50-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		12/29/10 18:00	106-46-7	
trans-1,4-Dichloro-2-butene	ND ug/L		1.0	1		12/29/10 18:00	110-57-6	
1,1-Dichloroethane	ND ug/L		1.0	1		12/29/10 18:00	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		12/29/10 18:00	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		12/29/10 18:00	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		12/29/10 18:00	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		12/29/10 18:00	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		12/29/10 18:00	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		12/29/10 18:00	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		12/29/10 18:00	10061-02-6	
Ethylbenzene	ND ug/L		1.0	1		12/29/10 18:00	100-41-4	
2-Hexanone	ND ug/L		5.0	1		12/29/10 18:00	591-78-6	
Iodomethane	ND ug/L		5.0	1		12/29/10 18:00	74-88-4	
Methylene Chloride	ND ug/L		1.0	1		12/29/10 18:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	1		12/29/10 18:00	108-10-1	

ANALYTICAL RESULTS

Project: CASWELL COUNTY LANDFILL
Pace Project No.: 9284821

Sample: 1701 MW6		Lab ID: 9284821006	Collected: 12/20/10 13:45	Received: 12/28/10 13:10	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill		Analytical Method: EPA 8260						
Styrene	ND	ug/L	1.0	1		12/29/10 18:00	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/29/10 18:00	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/29/10 18:00	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/29/10 18:00	127-18-4	
Toluene	ND	ug/L	1.0	1		12/29/10 18:00	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/29/10 18:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/29/10 18:00	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/29/10 18:00	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/29/10 18:00	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		12/29/10 18:00	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		12/29/10 18:00	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		12/29/10 18:00	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		12/29/10 18:00	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/29/10 18:00	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/29/10 18:00	95-47-6	
4-Bromofluorobenzene (S)	98	%	70-130	1		12/29/10 18:00	460-00-4	
Dibromofluoromethane (S)	109	%	70-130	1		12/29/10 18:00	1868-53-7	
1,2-Dichloroethane-d4 (S)	113	%	70-130	1		12/29/10 18:00	17060-07-0	
Toluene-d8 (S)	94	%	70-130	1		12/29/10 18:00	2037-26-5	

ANALYTICAL RESULTS

Project: CASWELL COUNTY LANDFILL

Pace Project No.: 9284821

Sample: 1701 SW1	Lab ID: 9284821007	Collected: 12/20/10 14:40	Received: 12/28/10 13:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Arsenic	ND ug/L		5.0	1	01/03/11 16:45	01/07/11 02:40	7440-38-2	
Barium	25.6 ug/L		5.0	1	01/03/11 16:45	01/07/11 02:40	7440-39-3	
Cadmium	ND ug/L		1.0	1	01/03/11 16:45	01/07/11 02:40	7440-43-9	
Chromium	ND ug/L		5.0	1	01/03/11 16:45	01/07/11 02:40	7440-47-3	
Lead	ND ug/L		5.0	1	01/03/11 16:45	01/07/11 02:40	7439-92-1	
Selenium	ND ug/L		10.0	1	01/03/11 16:45	01/07/11 02:40	7782-49-2	
Silver	ND ug/L		5.0	1	01/03/11 16:45	01/07/11 02:40	7440-22-4	
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470						
Mercury	ND ug/L		0.20	1	01/04/11 14:10	01/05/11 10:50	7439-97-6	
8260 MSV Low Level Landfill		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		12/29/10 18:26	67-64-1	
Acrylonitrile	ND ug/L		10.0	1		12/29/10 18:26	107-13-1	
Benzene	ND ug/L		1.0	1		12/29/10 18:26	71-43-2	
Bromochloromethane	ND ug/L		1.0	1		12/29/10 18:26	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		12/29/10 18:26	75-27-4	
Bromoform	ND ug/L		1.0	1		12/29/10 18:26	75-25-2	
Bromomethane	ND ug/L		2.0	1		12/29/10 18:26	74-83-9	
2-Butanone (MEK)	ND ug/L		5.0	1		12/29/10 18:26	78-93-3	
Carbon disulfide	ND ug/L		2.0	1		12/29/10 18:26	75-15-0	
Carbon tetrachloride	ND ug/L		1.0	1		12/29/10 18:26	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		12/29/10 18:26	108-90-7	
Chloroethane	ND ug/L		1.0	1		12/29/10 18:26	75-00-3	
Chloroform	ND ug/L		1.0	1		12/29/10 18:26	67-66-3	
Chloromethane	ND ug/L		1.0	1		12/29/10 18:26	74-87-3	
1,2-Dibromo-3-chloropropane	ND ug/L		5.0	1		12/29/10 18:26	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		12/29/10 18:26	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		12/29/10 18:26	106-93-4	
Dibromomethane	ND ug/L		1.0	1		12/29/10 18:26	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	1		12/29/10 18:26	95-50-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		12/29/10 18:26	106-46-7	
trans-1,4-Dichloro-2-butene	ND ug/L		1.0	1		12/29/10 18:26	110-57-6	
1,1-Dichloroethane	ND ug/L		1.0	1		12/29/10 18:26	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		12/29/10 18:26	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		12/29/10 18:26	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		12/29/10 18:26	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		12/29/10 18:26	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		12/29/10 18:26	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		12/29/10 18:26	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		12/29/10 18:26	10061-02-6	
Ethylbenzene	ND ug/L		1.0	1		12/29/10 18:26	100-41-4	
2-Hexanone	ND ug/L		5.0	1		12/29/10 18:26	591-78-6	
Iodomethane	ND ug/L		5.0	1		12/29/10 18:26	74-88-4	
Methylene Chloride	ND ug/L		1.0	1		12/29/10 18:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	1		12/29/10 18:26	108-10-1	

Date: 01/07/2011 03:12 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CASWELL COUNTY LANDFILL
Pace Project No.: 9284821

Sample: 1701 SW1	Lab ID: 9284821007	Collected: 12/20/10 14:40	Received: 12/28/10 13:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill		Analytical Method: EPA 8260						
Styrene	ND ug/L		1.0	1		12/29/10 18:26	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		12/29/10 18:26	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		12/29/10 18:26	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		12/29/10 18:26	127-18-4	
Toluene	ND ug/L		1.0	1		12/29/10 18:26	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		12/29/10 18:26	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		12/29/10 18:26	79-00-5	
Trichloroethene	ND ug/L		1.0	1		12/29/10 18:26	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		12/29/10 18:26	75-69-4	
1,2,3-Trichloropropane	ND ug/L		1.0	1		12/29/10 18:26	96-18-4	
Vinyl acetate	ND ug/L		2.0	1		12/29/10 18:26	108-05-4	
Vinyl chloride	ND ug/L		1.0	1		12/29/10 18:26	75-01-4	
Xylene (Total)	ND ug/L		2.0	1		12/29/10 18:26	1330-20-7	
m&p-Xylene	ND ug/L		2.0	1		12/29/10 18:26	179601-23-1	
o-Xylene	ND ug/L		1.0	1		12/29/10 18:26	95-47-6	
4-Bromofluorobenzene (S)	98 %		70-130	1		12/29/10 18:26	460-00-4	
Dibromofluoromethane (S)	108 %		70-130	1		12/29/10 18:26	1868-53-7	
1,2-Dichloroethane-d4 (S)	112 %		70-130	1		12/29/10 18:26	17060-07-0	
Toluene-d8 (S)	96 %		70-130	1		12/29/10 18:26	2037-26-5	

ANALYTICAL RESULTS

Project: CASWELL COUNTY LANDFILL
Pace Project No.: 9284821

Sample: 1701 SW2	Lab ID: 9284821008	Collected: 12/20/10 14:10	Received: 12/28/10 13:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Arsenic	ND ug/L		5.0	1	01/03/11 16:45	01/07/11 02:43	7440-38-2	
Barium	28.7 ug/L		5.0	1	01/03/11 16:45	01/07/11 02:43	7440-39-3	
Cadmium	ND ug/L		1.0	1	01/03/11 16:45	01/07/11 02:43	7440-43-9	
Chromium	ND ug/L		5.0	1	01/03/11 16:45	01/07/11 02:43	7440-47-3	
Lead	ND ug/L		5.0	1	01/03/11 16:45	01/07/11 02:43	7439-92-1	
Selenium	ND ug/L		10.0	1	01/03/11 16:45	01/07/11 02:43	7782-49-2	
Silver	ND ug/L		5.0	1	01/03/11 16:45	01/07/11 02:43	7440-22-4	
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470						
Mercury	ND ug/L		0.20	1	01/04/11 14:10	01/05/11 10:50	7439-97-6	
8260 MSV Low Level Landfill		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		12/29/10 18:51	67-64-1	
Acrylonitrile	ND ug/L		10.0	1		12/29/10 18:51	107-13-1	
Benzene	ND ug/L		1.0	1		12/29/10 18:51	71-43-2	
Bromochloromethane	ND ug/L		1.0	1		12/29/10 18:51	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		12/29/10 18:51	75-27-4	
Bromoform	ND ug/L		1.0	1		12/29/10 18:51	75-25-2	
Bromomethane	ND ug/L		2.0	1		12/29/10 18:51	74-83-9	
2-Butanone (MEK)	ND ug/L		5.0	1		12/29/10 18:51	78-93-3	
Carbon disulfide	ND ug/L		2.0	1		12/29/10 18:51	75-15-0	
Carbon tetrachloride	ND ug/L		1.0	1		12/29/10 18:51	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		12/29/10 18:51	108-90-7	
Chloroethane	ND ug/L		1.0	1		12/29/10 18:51	75-00-3	
Chloroform	ND ug/L		1.0	1		12/29/10 18:51	67-66-3	
Chloromethane	ND ug/L		1.0	1		12/29/10 18:51	74-87-3	
1,2-Dibromo-3-chloropropane	ND ug/L		5.0	1		12/29/10 18:51	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		12/29/10 18:51	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		12/29/10 18:51	106-93-4	
Dibromomethane	ND ug/L		1.0	1		12/29/10 18:51	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	1		12/29/10 18:51	95-50-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		12/29/10 18:51	106-46-7	
trans-1,4-Dichloro-2-butene	ND ug/L		1.0	1		12/29/10 18:51	110-57-6	
1,1-Dichloroethane	ND ug/L		1.0	1		12/29/10 18:51	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		12/29/10 18:51	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		12/29/10 18:51	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		12/29/10 18:51	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		12/29/10 18:51	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		12/29/10 18:51	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		12/29/10 18:51	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		12/29/10 18:51	10061-02-6	
Ethylbenzene	ND ug/L		1.0	1		12/29/10 18:51	100-41-4	
2-Hexanone	ND ug/L		5.0	1		12/29/10 18:51	591-78-6	
Iodomethane	ND ug/L		5.0	1		12/29/10 18:51	74-88-4	
Methylene Chloride	ND ug/L		1.0	1		12/29/10 18:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	1		12/29/10 18:51	108-10-1	

ANALYTICAL RESULTS

Project: CASWELL COUNTY LANDFILL
Pace Project No.: 9284821

Sample: 1701 SW2	Lab ID: 9284821008	Collected: 12/20/10 14:10	Received: 12/28/10 13:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Styrene	ND	ug/L	1.0	1		12/29/10 18:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/29/10 18:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/29/10 18:51	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/29/10 18:51	127-18-4	
Toluene	ND	ug/L	1.0	1		12/29/10 18:51	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/29/10 18:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/29/10 18:51	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/29/10 18:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/29/10 18:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		12/29/10 18:51	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		12/29/10 18:51	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		12/29/10 18:51	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		12/29/10 18:51	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/29/10 18:51	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/29/10 18:51	95-47-6	
4-Bromofluorobenzene (S)	100	%	70-130	1		12/29/10 18:51	460-00-4	
Dibromofluoromethane (S)	110	%	70-130	1		12/29/10 18:51	1868-53-7	
1,2-Dichloroethane-d4 (S)	113	%	70-130	1		12/29/10 18:51	17060-07-0	
Toluene-d8 (S)	95	%	70-130	1		12/29/10 18:51	2037-26-5	

ANALYTICAL RESULTS

Project: CASWELL COUNTY LANDFILL

Pace Project No.: 9284821

Sample:	Lab ID:	Collected:	Received:	Matrix:				
1701 DUPLICATE	9284821009	12/20/10 09:00	12/28/10 13:10	Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater								
Analytical Method: EPA 6010					Preparation Method: EPA 3010			
Arsenic	ND	ug/L	5.0	1	01/03/11 16:45	01/07/11 02:51	7440-38-2	
Barium	66.1	ug/L	5.0	1	01/03/11 16:45	01/07/11 02:51	7440-39-3	
Cadmium	ND	ug/L	1.0	1	01/03/11 16:45	01/07/11 02:51	7440-43-9	
Chromium	ND	ug/L	5.0	1	01/03/11 16:45	01/07/11 02:51	7440-47-3	
Lead	ND	ug/L	5.0	1	01/03/11 16:45	01/07/11 02:51	7439-92-1	
Selenium	ND	ug/L	10.0	1	01/03/11 16:45	01/07/11 02:51	7782-49-2	
Silver	ND	ug/L	5.0	1	01/03/11 16:45	01/07/11 02:51	7440-22-4	
7470 Mercury								
Analytical Method: EPA 7470					Preparation Method: EPA 7470			
Mercury	ND	ug/L	0.20	1	01/04/11 14:10	01/05/11 10:50	7439-97-6	
8260 MSV Low Level Landfill								
Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	1		12/29/10 19:16	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		12/29/10 19:16	107-13-1	
Benzene	ND	ug/L	1.0	1		12/29/10 19:16	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		12/29/10 19:16	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/29/10 19:16	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/29/10 19:16	75-25-2	
Bromomethane	ND	ug/L	2.0	1		12/29/10 19:16	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		12/29/10 19:16	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		12/29/10 19:16	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		12/29/10 19:16	56-23-5	
Chlorobenzene	10	ug/L	1.0	1		12/29/10 19:16	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/29/10 19:16	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/29/10 19:16	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/29/10 19:16	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		12/29/10 19:16	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/29/10 19:16	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/29/10 19:16	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		12/29/10 19:16	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/29/10 19:16	95-50-1	
1,4-Dichlorobenzene	3.7	ug/L	1.0	1		12/29/10 19:16	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		12/29/10 19:16	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/29/10 19:16	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/29/10 19:16	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/29/10 19:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/29/10 19:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/29/10 19:16	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/29/10 19:16	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/29/10 19:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/29/10 19:16	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		12/29/10 19:16	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		12/29/10 19:16	591-78-6	
Iodomethane	ND	ug/L	5.0	1		12/29/10 19:16	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		12/29/10 19:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		12/29/10 19:16	108-10-1	

Date: 01/07/2011 03:12 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CASWELL COUNTY LANDFILL
Pace Project No.: 9284821

Sample: 1701 DUPLICATE		Lab ID: 9284821009	Collected: 12/20/10 09:00	Received: 12/28/10 13:10	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill		Analytical Method: EPA 8260						
Styrene	ND	ug/L	1.0	1		12/29/10 19:16	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/29/10 19:16	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/29/10 19:16	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/29/10 19:16	127-18-4	
Toluene	ND	ug/L	1.0	1		12/29/10 19:16	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/29/10 19:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/29/10 19:16	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/29/10 19:16	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/29/10 19:16	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		12/29/10 19:16	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		12/29/10 19:16	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		12/29/10 19:16	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		12/29/10 19:16	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/29/10 19:16	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/29/10 19:16	95-47-6	
4-Bromofluorobenzene (S)	99	%	70-130	1		12/29/10 19:16	460-00-4	
Dibromofluoromethane (S)	108	%	70-130	1		12/29/10 19:16	1868-53-7	
1,2-Dichloroethane-d4 (S)	111	%	70-130	1		12/29/10 19:16	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1		12/29/10 19:16	2037-26-5	

QUALITY CONTROL DATA

Project: CASWELL COUNTY LANDFILL
Pace Project No.: 9284821

QC Batch: MPRP/7687 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 9284821001, 9284821002, 9284821003, 9284821004, 9284821005, 9284821006, 9284821007, 9284821008, 9284821009

METHOD BLANK: 548961 Matrix: Water
Associated Lab Samples: 9284821001, 9284821002, 9284821003, 9284821004, 9284821005, 9284821006, 9284821007, 9284821008, 9284821009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	ND	5.0	01/07/11 02:00	
Barium	ug/L	ND	5.0	01/07/11 02:00	
Cadmium	ug/L	ND	1.0	01/07/11 02:00	
Chromium	ug/L	ND	5.0	01/07/11 02:00	
Lead	ug/L	ND	5.0	01/07/11 02:00	
Selenium	ug/L	ND	10.0	01/07/11 02:00	
Silver	ug/L	ND	5.0	01/07/11 02:00	

LABORATORY CONTROL SAMPLE: 548962

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	508	102	80-120	
Barium	ug/L	500	505	101	80-120	
Cadmium	ug/L	500	509	102	80-120	
Chromium	ug/L	500	501	100	80-120	
Lead	ug/L	500	512	102	80-120	
Selenium	ug/L	500	498	100	80-120	
Silver	ug/L	250	256	102	80-120	

MATRIX SPIKE SAMPLE: 548963

Parameter	Units	9284821008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	ND	500	495	99	75-125	
Barium	ug/L	28.7	500	512	97	75-125	
Cadmium	ug/L	ND	500	489	98	75-125	
Chromium	ug/L	ND	500	483	96	75-125	
Lead	ug/L	ND	500	489	98	75-125	
Selenium	ug/L	ND	500	487	97	75-125	
Silver	ug/L	ND	250	247	99	75-125	

SAMPLE DUPLICATE: 548964

Parameter	Units	9284821009 Result	Dup Result	RPD	Qualifiers
Arsenic	ug/L	ND	ND		
Barium	ug/L	66.1	66.7	1	
Cadmium	ug/L	ND	ND		
Chromium	ug/L	ND	1.9J		

QUALITY CONTROL DATA

Project: CASWELL COUNTY LANDFILL
Pace Project No.: 9284821

SAMPLE DUPLICATE: 548964

Parameter	Units	9284821009 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	ND	ND		
Selenium	ug/L	ND	ND		
Silver	ug/L	ND	.21J		

QUALITY CONTROL DATA

Project: CASWELL COUNTY LANDFILL

Pace Project No.: 9284821

QC Batch: MERP/3232

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Associated Lab Samples: 9284821001, 9284821002, 9284821003, 9284821004

QUALITY CONTROL DATA

Project: CASWELL COUNTY LANDFILL
Pace Project No.: 9284821

QC Batch: MERP/3240 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 9284821001, 9284821002, 9284821003, 9284821004, 9284821005, 9284821006, 9284821007, 9284821008, 9284821009

METHOD BLANK: 549250 Matrix: Water
Associated Lab Samples: 9284821001, 9284821002, 9284821003, 9284821004, 9284821005, 9284821006, 9284821007, 9284821008, 9284821009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	01/05/11 10:50	

LABORATORY CONTROL SAMPLE: 549251

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.2	89	80-120	

MATRIX SPIKE SAMPLE: 549252

Parameter	Units	9284821001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	2.5	1.6	62	75-125	M0

MATRIX SPIKE SAMPLE: 549253

Parameter	Units	9284821002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	2.5	1.5	60	75-125	M0

QUALITY CONTROL DATA

Project: CASWELL COUNTY LANDFILL
Pace Project No.: 9284821

QC Batch: MSV/13669 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 9284821001, 9284821002, 9284821003, 9284821004, 9284821005, 9284821006, 9284821007, 9284821008, 9284821009

METHOD BLANK: 549079 Matrix: Water
Associated Lab Samples: 9284821001, 9284821002, 9284821003, 9284821004, 9284821005, 9284821006, 9284821007, 9284821008, 9284821009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	12/29/10 14:37	
1,1,1-Trichloroethane	ug/L	ND	1.0	12/29/10 14:37	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	12/29/10 14:37	
1,1,2-Trichloroethane	ug/L	ND	1.0	12/29/10 14:37	
1,1-Dichloroethane	ug/L	ND	1.0	12/29/10 14:37	
1,1-Dichloroethene	ug/L	ND	1.0	12/29/10 14:37	
1,2,3-Trichloropropane	ug/L	ND	1.0	12/29/10 14:37	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	12/29/10 14:37	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	12/29/10 14:37	
1,2-Dichlorobenzene	ug/L	ND	1.0	12/29/10 14:37	
1,2-Dichloroethane	ug/L	ND	1.0	12/29/10 14:37	
1,2-Dichloropropane	ug/L	ND	1.0	12/29/10 14:37	
1,4-Dichlorobenzene	ug/L	ND	1.0	12/29/10 14:37	
2-Butanone (MEK)	ug/L	ND	5.0	12/29/10 14:37	
2-Hexanone	ug/L	ND	5.0	12/29/10 14:37	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	12/29/10 14:37	
Acetone	ug/L	ND	25.0	12/29/10 14:37	
Acrylonitrile	ug/L	ND	10.0	12/29/10 14:37	
Benzene	ug/L	ND	1.0	12/29/10 14:37	
Bromochloromethane	ug/L	ND	1.0	12/29/10 14:37	
Bromodichloromethane	ug/L	ND	1.0	12/29/10 14:37	
Bromoform	ug/L	ND	1.0	12/29/10 14:37	
Bromomethane	ug/L	ND	2.0	12/29/10 14:37	
Carbon disulfide	ug/L	ND	2.0	12/29/10 14:37	
Carbon tetrachloride	ug/L	ND	1.0	12/29/10 14:37	
Chlorobenzene	ug/L	ND	1.0	12/29/10 14:37	
Chloroethane	ug/L	ND	1.0	12/29/10 14:37	
Chloroform	ug/L	ND	1.0	12/29/10 14:37	
Chloromethane	ug/L	ND	1.0	12/29/10 14:37	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/29/10 14:37	
cis-1,3-Dichloropropene	ug/L	ND	1.0	12/29/10 14:37	
Dibromochloromethane	ug/L	ND	1.0	12/29/10 14:37	
Dibromomethane	ug/L	ND	1.0	12/29/10 14:37	
Ethylbenzene	ug/L	ND	1.0	12/29/10 14:37	
Iodomethane	ug/L	ND	5.0	12/29/10 14:37	
m&p-Xylene	ug/L	ND	2.0	12/29/10 14:37	
Methylene Chloride	ug/L	ND	1.0	12/29/10 14:37	
o-Xylene	ug/L	ND	1.0	12/29/10 14:37	
Styrene	ug/L	ND	1.0	12/29/10 14:37	
Tetrachloroethene	ug/L	ND	1.0	12/29/10 14:37	
Toluene	ug/L	ND	1.0	12/29/10 14:37	

QUALITY CONTROL DATA

Project: CASWELL COUNTY LANDFILL
Pace Project No.: 9284821

METHOD BLANK: 549079

Matrix: Water

Associated Lab Samples: 9284821001, 9284821002, 9284821003, 9284821004, 9284821005, 9284821006, 9284821007, 9284821008, 9284821009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	ND	1.0	12/29/10 14:37	
trans-1,3-Dichloropropene	ug/L	ND	1.0	12/29/10 14:37	
trans-1,4-Dichloro-2-butene	ug/L	ND	1.0	12/29/10 14:37	
Trichloroethene	ug/L	ND	1.0	12/29/10 14:37	
Trichlorofluoromethane	ug/L	ND	1.0	12/29/10 14:37	
Vinyl acetate	ug/L	ND	2.0	12/29/10 14:37	
Vinyl chloride	ug/L	ND	1.0	12/29/10 14:37	
Xylene (Total)	ug/L	ND	2.0	12/29/10 14:37	
1,2-Dichloroethane-d4 (S)	%	109	70-130	12/29/10 14:37	
4-Bromofluorobenzene (S)	%	102	70-130	12/29/10 14:37	
Dibromofluoromethane (S)	%	107	70-130	12/29/10 14:37	
Toluene-d8 (S)	%	96	70-130	12/29/10 14:37	

LABORATORY CONTROL SAMPLE: 549080

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	57.3	115	70-130	
1,1,1-Trichloroethane	ug/L	50	50.8	102	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	55.0	110	70-130	
1,1,2-Trichloroethane	ug/L	50	55.5	111	70-130	
1,1-Dichloroethane	ug/L	50	49.4	99	70-130	
1,1-Dichloroethene	ug/L	50	47.1	94	70-132	
1,2,3-Trichloropropane	ug/L	50	49.9	100	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	52.9	106	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	55.8	112	70-130	
1,2-Dichlorobenzene	ug/L	50	57.3	115	70-130	
1,2-Dichloroethane	ug/L	50	52.2	104	70-130	
1,2-Dichloropropane	ug/L	50	52.1	104	70-130	
1,4-Dichlorobenzene	ug/L	50	54.7	109	70-130	
2-Butanone (MEK)	ug/L	100	100	100	70-145	
2-Hexanone	ug/L	100	97.6	98	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	100	94.9	95	70-140	
Acetone	ug/L	100	99.4	99	50-175	
Acrylonitrile	ug/L	250	248	99	70-143	
Benzene	ug/L	50	51.0	102	70-130	
Bromochloromethane	ug/L	50	51.3	103	70-130	
Bromodichloromethane	ug/L	50	52.6	105	70-130	
Bromoform	ug/L	50	49.0	98	70-130	
Bromomethane	ug/L	50	52.9	106	54-130	
Carbon disulfide	ug/L	50	50.7	101	70-131	
Carbon tetrachloride	ug/L	50	50.5	101	70-132	
Chlorobenzene	ug/L	50	55.1	110	70-130	
Chloroethane	ug/L	50	48.9	98	64-134	
Chloroform	ug/L	50	50.3	101	70-130	

QUALITY CONTROL DATA

Project: CASWELL COUNTY LANDFILL

Pace Project No.: 9284821

LABORATORY CONTROL SAMPLE: 549080

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	50	51.2	102	64-130	
cis-1,2-Dichloroethene	ug/L	50	48.7	97	70-131	
cis-1,3-Dichloropropene	ug/L	50	50.1	100	70-130	
Dibromochloromethane	ug/L	50	53.1	106	70-130	
Dibromomethane	ug/L	50	51.2	102	70-131	
Ethylbenzene	ug/L	50	56.9	114	70-130	
Iodomethane	ug/L	100	98.7	99	49-180	
m&p-Xylene	ug/L	100	117	117	70-130	
Methylene Chloride	ug/L	50	42.2	84	63-130	
o-Xylene	ug/L	50	53.0	106	70-130	
Styrene	ug/L	50	54.1	108	70-130	
Tetrachloroethene	ug/L	50	53.8	108	70-130	
Toluene	ug/L	50	52.5	105	70-130	
trans-1,2-Dichloroethene	ug/L	50	47.3	95	70-130	
trans-1,3-Dichloropropene	ug/L	50	47.1	94	70-132	
trans-1,4-Dichloro-2-butene	ug/L	50	57.1	114	70-141	
Trichloroethene	ug/L	50	55.1	110	70-130	
Trichlorofluoromethane	ug/L	50	45.1	90	62-133	
Vinyl acetate	ug/L	100	99.4	99	66-157	
Vinyl chloride	ug/L	50	54.3	109	69-130	
Xylene (Total)	ug/L	150	170	113	70-130	
1,2-Dichloroethane-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	
Dibromofluoromethane (S)	%			96	70-130	
Toluene-d8 (S)	%			100	70-130	

QUALITY CONTROL DATA

Project: CASWELL COUNTY LANDFILL
Pace Project No.: 9284821

QC Batch: MSV/13595 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 9284821001

METHOD BLANK: 546566 Matrix: Water
Associated Lab Samples: 9284821001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	12/29/10 14:37	
1,1,1-Trichloroethane	ug/L	ND	1.0	12/29/10 14:37	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	12/29/10 14:37	
1,1,2-Trichloroethane	ug/L	ND	1.0	12/29/10 14:37	
1,1-Dichloroethane	ug/L	ND	1.0	12/29/10 14:37	
1,1-Dichloroethene	ug/L	ND	1.0	12/29/10 14:37	
1,1-Dichloropropene	ug/L	ND	1.0	12/29/10 14:37	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	12/29/10 14:37	
1,2,3-Trichloropropane	ug/L	ND	1.0	12/29/10 14:37	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	12/29/10 14:37	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	12/29/10 14:37	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	12/29/10 14:37	
1,2-Dichlorobenzene	ug/L	ND	1.0	12/29/10 14:37	
1,2-Dichloroethane	ug/L	ND	1.0	12/29/10 14:37	
1,2-Dichloropropane	ug/L	ND	1.0	12/29/10 14:37	
1,3-Dichlorobenzene	ug/L	ND	1.0	12/29/10 14:37	
1,3-Dichloropropane	ug/L	ND	1.0	12/29/10 14:37	
1,4-Dichlorobenzene	ug/L	ND	1.0	12/29/10 14:37	
2,2-Dichloropropane	ug/L	ND	1.0	12/29/10 14:37	
2-Butanone (MEK)	ug/L	ND	5.0	12/29/10 14:37	
2-Chlorotoluene	ug/L	ND	1.0	12/29/10 14:37	
2-Hexanone	ug/L	ND	5.0	12/29/10 14:37	
4-Chlorotoluene	ug/L	ND	1.0	12/29/10 14:37	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	12/29/10 14:37	
Acetone	ug/L	ND	25.0	12/29/10 14:37	
Benzene	ug/L	ND	1.0	12/29/10 14:37	
Bromobenzene	ug/L	ND	1.0	12/29/10 14:37	
Bromochloromethane	ug/L	ND	1.0	12/29/10 14:37	
Bromodichloromethane	ug/L	ND	1.0	12/29/10 14:37	
Bromoform	ug/L	ND	1.0	12/29/10 14:37	
Bromomethane	ug/L	ND	2.0	12/29/10 14:37	
Carbon tetrachloride	ug/L	ND	1.0	12/29/10 14:37	
Chlorobenzene	ug/L	ND	1.0	12/29/10 14:37	
Chloroethane	ug/L	ND	1.0	12/29/10 14:37	
Chloroform	ug/L	ND	1.0	12/29/10 14:37	
Chloromethane	ug/L	ND	1.0	12/29/10 14:37	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/29/10 14:37	
cis-1,3-Dichloropropene	ug/L	ND	1.0	12/29/10 14:37	
Dibromochloromethane	ug/L	ND	1.0	12/29/10 14:37	
Dibromomethane	ug/L	ND	1.0	12/29/10 14:37	
Dichlorodifluoromethane	ug/L	ND	1.0	12/29/10 14:37	
Diisopropyl ether	ug/L	ND	1.0	12/29/10 14:37	
Ethylbenzene	ug/L	ND	1.0	12/29/10 14:37	

QUALITY CONTROL DATA

Project: CASWELL COUNTY LANDFILL
Pace Project No.: 9284821

METHOD BLANK: 546566 Matrix: Water

Associated Lab Samples: 9284821001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	ND	1.0	12/29/10 14:37	
m&p-Xylene	ug/L	ND	2.0	12/29/10 14:37	
Methyl-tert-butyl ether	ug/L	ND	1.0	12/29/10 14:37	
Methylene Chloride	ug/L	ND	2.0	12/29/10 14:37	
Naphthalene	ug/L	ND	1.0	12/29/10 14:37	
o-Xylene	ug/L	ND	1.0	12/29/10 14:37	
p-Isopropyltoluene	ug/L	ND	1.0	12/29/10 14:37	
Styrene	ug/L	ND	1.0	12/29/10 14:37	
Tetrachloroethene	ug/L	ND	1.0	12/29/10 14:37	
Toluene	ug/L	ND	1.0	12/29/10 14:37	
trans-1,2-Dichloroethene	ug/L	ND	1.0	12/29/10 14:37	
trans-1,3-Dichloropropene	ug/L	ND	1.0	12/29/10 14:37	
Trichloroethene	ug/L	ND	1.0	12/29/10 14:37	
Trichlorofluoromethane	ug/L	ND	1.0	12/29/10 14:37	
Vinyl acetate	ug/L	ND	2.0	12/29/10 14:37	
Vinyl chloride	ug/L	ND	1.0	12/29/10 14:37	
1,2-Dichloroethane-d4 (S)	%	109	70-130	12/29/10 14:37	
4-Bromofluorobenzene (S)	%	102	70-130	12/29/10 14:37	
Dibromofluoromethane (S)	%	107	70-130	12/29/10 14:37	
Toluene-d8 (S)	%	96	70-130	12/29/10 14:37	

LABORATORY CONTROL SAMPLE: 546567

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	57.3	115	70-130	
1,1,1-Trichloroethane	ug/L	50	50.8	102	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	55.0	110	70-130	
1,1,2-Trichloroethane	ug/L	50	55.5	111	70-130	
1,1-Dichloroethane	ug/L	50	49.4	99	70-130	
1,1-Dichloroethene	ug/L	50	47.1	94	70-132	
1,1-Dichloropropene	ug/L	50	50.1	100	70-130	
1,2,3-Trichlorobenzene	ug/L	50	54.3	109	70-135	
1,2,3-Trichloropropane	ug/L	50	49.9	100	70-130	
1,2,4-Trichlorobenzene	ug/L	50	50.9	102	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	52.9	106	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	55.8	112	70-130	
1,2-Dichlorobenzene	ug/L	50	57.3	115	70-130	
1,2-Dichloroethane	ug/L	50	52.2	104	70-130	
1,2-Dichloropropane	ug/L	50	52.1	104	70-130	
1,3-Dichlorobenzene	ug/L	50	55.7	111	70-130	
1,3-Dichloropropane	ug/L	50	54.7	109	70-130	
1,4-Dichlorobenzene	ug/L	50	54.7	109	70-130	
2,2-Dichloropropane	ug/L	50	48.9	98	58-145	
2-Butanone (MEK)	ug/L	100	100	100	70-145	
2-Chlorotoluene	ug/L	50	59.0	118	70-130	

Date: 01/07/2011 03:12 PM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CASWELL COUNTY LANDFILL

Pace Project No.: 9284821

LABORATORY CONTROL SAMPLE: 546567

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ug/L	100	97.6	98	70-144	
4-Chlorotoluene	ug/L	50	58.9	118	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	94.9	95	70-140	
Acetone	ug/L	100	99.4	99	50-175	
Benzene	ug/L	50	51.0	102	70-130	
Bromobenzene	ug/L	50	55.3	111	70-130	
Bromochloromethane	ug/L	50	51.3	103	70-130	
Bromodichloromethane	ug/L	50	52.6	105	70-130	
Bromoform	ug/L	50	49.0	98	70-130	
Bromomethane	ug/L	50	52.9	106	54-130	
Carbon tetrachloride	ug/L	50	50.5	101	70-132	
Chlorobenzene	ug/L	50	55.1	110	70-130	
Chloroethane	ug/L	50	48.9	98	64-134	
Chloroform	ug/L	50	50.3	101	70-130	
Chloromethane	ug/L	50	51.2	102	64-130	
cis-1,2-Dichloroethene	ug/L	50	48.7	97	70-131	
cis-1,3-Dichloropropene	ug/L	50	50.1	100	70-130	
Dibromochloromethane	ug/L	50	53.1	106	70-130	
Dibromomethane	ug/L	50	51.2	102	70-131	
Dichlorodifluoromethane	ug/L	50	48.0	96	56-130	
Diisopropyl ether	ug/L	50	50.6	101	70-130	
Ethylbenzene	ug/L	50	56.9	114	70-130	
Hexachloro-1,3-butadiene	ug/L	50	57.0	114	70-130	
m&p-Xylene	ug/L	100	117	117	70-130	
Methyl-tert-butyl ether	ug/L	50	47.9	96	70-130	
Methylene Chloride	ug/L	50	42.2	84	63-130	
Naphthalene	ug/L	50	52.6	105	70-138	
o-Xylene	ug/L	50	53.0	106	70-130	
p-Isopropyltoluene	ug/L	50	55.3	111	70-130	
Styrene	ug/L	50	54.1	108	70-130	
Tetrachloroethene	ug/L	50	53.8	108	70-130	
Toluene	ug/L	50	52.5	105	70-130	
trans-1,2-Dichloroethene	ug/L	50	47.3	95	70-130	
trans-1,3-Dichloropropene	ug/L	50	47.1	94	70-132	
Trichloroethene	ug/L	50	55.1	110	70-130	
Trichlorofluoromethane	ug/L	50	45.1	90	62-133	
Vinyl acetate	ug/L	100	99.4	99	66-157	
Vinyl chloride	ug/L	50	54.3	109	69-130	
1,2-Dichloroethane-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	
Dibromofluoromethane (S)	%			96	70-130	
Toluene-d8 (S)	%			100	70-130	

QUALIFIERS

Project: CASWELL COUNTY LANDFILL
Pace Project No.: 9284821

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.

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.

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

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.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CASWELL COUNTY LANDFILL
Pace Project No.: 9284821

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
9284821001	1701 MW1	EPA 3010	MPRP/7687	EPA 6010	ICP/7091
9284821002	1701 MW2	EPA 3010	MPRP/7687	EPA 6010	ICP/7091
9284821003	1701 MW3	EPA 3010	MPRP/7687	EPA 6010	ICP/7091
9284821004	1701 MW4	EPA 3010	MPRP/7687	EPA 6010	ICP/7091
9284821005	1701 MW5	EPA 3010	MPRP/7687	EPA 6010	ICP/7091
9284821006	1701 MW6	EPA 3010	MPRP/7687	EPA 6010	ICP/7091
9284821007	1701 SW1	EPA 3010	MPRP/7687	EPA 6010	ICP/7091
9284821008	1701 SW2	EPA 3010	MPRP/7687	EPA 6010	ICP/7091
9284821009	1701 DUPLICATE	EPA 3010	MPRP/7687	EPA 6010	ICP/7091
9284821001	1701 MW1	EPA 7470	MERP/3240	EPA 7470	MERC/3195
9284821002	1701 MW2	EPA 7470	MERP/3240	EPA 7470	MERC/3195
9284821003	1701 MW3	EPA 7470	MERP/3240	EPA 7470	MERC/3195
9284821004	1701 MW4	EPA 7470	MERP/3240	EPA 7470	MERC/3195
9284821005	1701 MW5	EPA 7470	MERP/3240	EPA 7470	MERC/3195
9284821006	1701 MW6	EPA 7470	MERP/3240	EPA 7470	MERC/3195
9284821007	1701 SW1	EPA 7470	MERP/3240	EPA 7470	MERC/3195
9284821008	1701 SW2	EPA 7470	MERP/3240	EPA 7470	MERC/3195
9284821009	1701 DUPLICATE	EPA 7470	MERP/3240	EPA 7470	MERC/3195
9284821001	1701 MW1	EPA 8260	MSV/13669		
9284821002	1701 MW2	EPA 8260	MSV/13669		
9284821003	1701 MW3	EPA 8260	MSV/13669		
9284821004	1701 MW4	EPA 8260	MSV/13669		
9284821005	1701 MW5	EPA 8260	MSV/13669		
9284821006	1701 MW6	EPA 8260	MSV/13669		
9284821007	1701 SW1	EPA 8260	MSV/13669		
9284821008	1701 SW2	EPA 8260	MSV/13669		
9284821009	1701 DUPLICATE	EPA 8260	MSV/13669		



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	5116, Ave.	Report To:	CONNELLY WARE	Attention:	
Address:	3718 Old BATTLEGROUND	Copy To:		Company Name:	
Email To:	GREENSBORO, NC 27410	Purchase Order No.:		Address:	
Phone:	288-7180	Project Name:	CASWELL CAMPA LINDSELE	Pace Quote Reference:	
Requested Due Date/TAT:		Project Number:	1589-07-034	Pace Project Manager:	
				Pace Profile #:	1298-6
				Site Location STATE:	NC
				REGULATORY AGENCY	
				<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER	
				<input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER	
				Page: _____ of _____	1432985

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	SAMPLE TYPE (G=GRAB C=COMP) (see valid codes to left)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test ↑ Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
				COMPOSITE START	COMPOSITE END/GRAB							
1	MW-1	DW Water	G	12/26	1530		4	Unpreserved H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₃ Methanol Other				001
2	MW-2	WW Waste Water	G	12/26	1000		4					002
3	MW-3	P Product	G	12/26	1145		4					003
4	MW-4	SL Soil/Solid	G	12/26	1045		4					004
5	MW-5	OL Oil	G	12/26	1245		4					005
6	MW-6	WP Wipe	G	12/26	1345		4					006
7	SW-1	AR Air	G	12/26	1440		4					007
8	SW-2	TS Tissue	G	12/26	1410		4					008
9	DUPLICATE	OT Other	G	12/26	0900		4					009
10												
11												
12												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	<i>[Signature]</i>	12/20/10	10:37	<i>[Signature]</i>	12/20/10	12:25	
	<i>[Signature]</i>	12/20/10	13:10	<i>[Signature]</i>	12/20/10	13:10	Temp in °C: 0.4 Received on Ice (Y/N): Sealed Cooler (Y/N): Custody (Y/N): Samples Intact (Y/N):

ORIGINAL

SAMPLER NAME AND SIGNATURE: *[Signature]*

PRINT Name of SAMPLER: Gaby Simpx

SIGNATURE of SAMPLER: *[Signature]*

DATE Signed (MM/DD/YY): 12/20/10



Sample Condition Upon Receipt

Client Name: S+ME, INC Project # 9284821

here Received: [x] Huntersville [] Asheville [] Eden

Carrier: [] Fed Ex [] UPS [] USPS [] Client [] Commercial [x] Pace Other

Study Seal on Cooler/Box Present: [] yes [x] no Seals intact: [] yes [] no

Packing Material: [] Bubble Wrap [x] Bubble Bags [] None [] Other

Thermometer Used: IR Gun : T904 Type of Ice: [x] Wet [] Blue [] None [x] Samples on ice, cooling process has begun

Temp Correction Factor: Add / Subtract 0 C

Refrigerated Cooler Temp.: 0.4 C Biological Tissue is Frozen: Yes No

Optional Proj. Due Date Proj. Name

Date and Initials of person examining contents: 12/28/10 [Signature]

Table with 16 rows of inspection criteria and checkboxes. Includes items like 'Chain of Custody Present', 'Sample Labels match COC', and 'Includes date/time/ID/Analysis Matrix: WT'.

Notification/ Resolution: Field Data Required? Y / N Person Contacted: Date/Time: Comments/ Resolution:

JRF Review: BMH Date: 12/28/10 SRF Review: BMH Date: 12/28/10

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

APPENDIX C

NC DENR Environmental Monitoring Reporting Form
And Electronic Data

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)).
- In accordance with NC General Statutes Chapter 89C and 89E and NC Solid Waste Management Rules 15A NCAC 13B, be sure to affix a seal to the bottom of this page, when applicable.
- 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):

S&ME, Inc.

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

Name: Connel Ware

Phone: (336) 288-7180

E-mail: cware@smeinc.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Caswell County Landfill	State Rt. 1367 Yanceyville, North Carolina 27379	1701	.0500	December 20, 2010

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

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.

Edmund Q. B. Henriques III

Environmental Department Manager (336) 288-7180

Facility Representative Name (Print)

Title

(Area Code) Telephone Number

Edmund Q. B. Henriques
Signature

2-24-11
Date

Affix NC Licensed/Professional Geologist/Engineer Seal here:

