CASWELL COUNTY LANDFILL
YANCEYVILLE, NORTH CAROLINA
SEMI-ANNUAL GROUNDWATER MONITORING REPORT
OCTOBER 2007 SAMPLING

S&ME Project No. 1584-07-034

Prepared For:

Caswell County
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January 2008

S&ME

I hereby certify this 30th day of January, 2008, that this report was prepared by me or under my direct supervision.

NORTH CAROLINA LICENSED SEAL 1216 EDMUND O. B. HENRIQUES

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1.0 EXECUTIVE SUMMARY

Six monitoring wells at the Caswell County Landfill were sampled on October 11, 2007. 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 no RCRA metals were detected at concentrations exceeding the corresponding 15A NCAC 2L groundwater quality standards (NCAC 2L groundwater quality standard) during this event with the exception of mercury in monitoring well MW-4. The groundwater sample collected from MW-4 showed a reported concentration of 3.9 μg/L for mercury in this sample which exceeds the established 15 NCAC 2 L groundwater quality standard for mercury set at 1.05 μg/L. Mercury was also detected in the groundwater samples collected from monitoring wells MW-1 and MW-3 at reported concentrations of 0.6 μg/L and 0.47 μg/L respectively. However, these reported concentrations are less than the NCAC 2L groundwater quality standard for mercury.

The metals barium and cadmium were also quantified in the groundwater samples collected from one or more groundwater monitoring wells during the October 11, 2007 groundwater monitoring event. However, all of the reported concentrations of these constituents were less than the 2L groundwater quality standard for the respective constituent.

There were other metals detected from one or more groundwater monitoring wells during the October 11, 2007 groundwater monitoring event. However, all of the reported concentrations were less than the 2L groundwater quality standard for the respective constituent.

The volatile organic constituent benzene was detected in MW-2 (2.2 μg/L) and MW-4 (1.1 μg/L) at reported concentrations above the NCAC 2L standard (1 μg/L). Benzene was also detected in the groundwater sample collected from monitoring well MW-5 at a reported concentration of 1.0 μg/L, which is equal to the NCAC 2L groundwater quality standard for benzene.

The organic constituent 1,4-dichlorobenzene was detected in the groundwater samples collected from wells MW-2 (19.7 μg/L), MW-3 (4.8 μg/L), MW-4 (15 μg/L), and MW-5 (12.3 μg/L) at reported concentrations above the NCAC 2L groundwater quality standard (1.4 μg/L) for this constituent.

The organic constituent vinyl chloride was detected in the groundwater sample from monitoring well MW-2 at a reported estimated concentration of 0.86 μg/L. This

concentration exceeds the established NCAC 2L groundwater standard for vinyl chloride set at 0.015 μg/L.

Chlorobenzene, chloroethane, 1,2-dichlorobenzene, 1,1-dichloroethane, cis 1,2-dichloroethene, toluene, o-xylenes, and total xylenes were detected in one or more groundwater samples during this monitoring event; however, all 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.

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. Due to the detection of these exceedances of 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.

2.0 INTRODUCTION

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.1632 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. During the October 11, 2007 sampling event, field conditions were so dry that there was no flow in the stream and therefore no stream samples could be collected.

This report discusses the field procedures, summarizes the field measurements and analytical results for the October 11, 2007 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 2007 groundwater monitoring year. The groundwater monitoring wells were purged, sampled, and the collected groundwater samples analyzed (in accordance with 15A NCAC 13B.1632) 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 October 2007 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 monitoring 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 October 11, 2007. 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 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. Three times the well volume was purged 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. Well MW-2 was purged until dry.

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. Three times the well volume was purged prior to the collection of the groundwater sample. The purge water from each of these wells was monitored for pH, conductivity, temperature, and turbidity.

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 latex 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, NC to be analyzed for Appendix I volatile organic constituents and the eight RCRA metals.

4.2 Surface Water Sampling

The stream was dry during the October 2007 groundwater monitoring event; therefore, surface water could not collected for analysis.

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**. 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 October 11, 2007.

Metals:

Analytical results of the six water samples indicate that no RCRA metals were detected at concentrations exceeding the corresponding 15A NCAC 2L groundwater quality standards (NCAC 2L groundwater quality standard) during this event with the exception of mercury in monitoring well MW-4. The groundwater sample collected from MW-4 showed a reported concentration of 3.9 μg/L for mercury in this sample which exceeds the established 15 NCAC 2 L groundwater quality standard for mercury set at 1.05 μg/L. Mercury was also detected in the groundwater samples collected from monitoring wells MW-1 and MW-3 at reported concentrations of 0.6 μg/L and 0.47 μg/L respectively. However, these reported concentrations are less than the NCAC 2L groundwater quality standard for mercury.

The metals barium and cadmium were also quantified in the groundwater samples collected from one or more groundwater monitoring wells during the October 11, 2007 groundwater monitoring event. However, all of the reported concentrations of these constituents were less than the 2L groundwater quality standard for the respective constituent.

There were other metals detected from one or more groundwater monitoring wells during the October 11, 2007 groundwater monitoring event. However, all of the reported concentrations were less than the 2L groundwater quality standard for the respective constituent.

Volatile Organic Compounds:

The volatile organic constituent benzene was detected in MW-2 (2.2 μg/L) and MW-4 (1.1 μg/L) at reported concentrations above the NCAC 2L standard (1 μg/L). Benzene was also detected in the groundwater sample collected from monitoring well MW-5 at a reported concentration of 1.0 μg/L which is equal to the NCAC 2L groundwater quality standard for benzene.

The organic constituent 1,4-dichlorobenzene was detected in the groundwater samples collected from wells MW-2 (19.7 μg/L), MW-3 (4.8 μg/L), MW-4 (15 μg/L), and MW-5 (12.3 μg/L) at reported concentrations above the NCAC 2L groundwater quality standard (1.4 μg/L) for this constituent.

The organic constituent vinyl chloride was detected in the groundwater sample from monitoring well MW-2 at a reported estimated concentration of 0.86 μg/L. This

concentration exceeds the established NCAC 2L groundwater standard for vinyl chloride set at 0.015 μg/L.

Chlorobenzene, chloroethane, 1,2-dichlorobenzene, 1,1-dichloroethane, cis 1,2-dichloroethene, toluene, o-xylenes, and total xylenes were detected in one or more groundwater samples during this monitoring event; however, all 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

Due to the severe drought, the stream was dry and therefore surface water could not be sampled during the October 11, 2007 sampling event.

5.3 Groundwater Flow Direction

The static water levels in the monitoring wells were measured on October 11, 2007. The depth to the water table ranged from 10.51 to 23.04 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 October 11, 2007 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. A Method Blank and a Duplicate Sample were also analyzed for the Appendix I Volatile Organic Compounds as well as the RCRA 8 metals. No volatile organic or inorganic constituents were present in these samples at detectable levels. Laboratory QC samples were analyzed for all constituents included in this sampling 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.

S&ME Inc. reviewed the aerial photograph of the Caswell County Landfill and surrounding vicinity for the year 2000 as a preliminary analysis of the proximity of potential receptor water well users to the compliance monitoring wells in which 2L exceedances occurred during the October 2007 groundwater monitoring event. Based on the aerial photograph for the year 2000, the nearest suspect residential homes area 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. These suspect homes are topographically upgradient and on the other side of the unnamed tributary of Moon Creek from the Caswell County Landfill. At this time, S&ME has no information regarding the current use of groundwater as a potable water source for these homes, in the surrounding area.

Due to the detection of exceedances of the 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.

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 (10/11/07)
Caswell County Landfill
Yanceyville, North Carolina
S&ME Project No. 1584-07-034

Static Water Levels				
Well No.	Surface Elevation (Topographic)	Depth of Well (feet)	October 11, 2007	
			DTGW (feet)	Elevation (feet)
MW-1	572	24.5	21.82	550.18
MW-2	526.5	22.3	20.61	505.89
MW-3	511	17.8	13.06	497.94
MW-4	526.5	36.0	23.04	503.46
MW-5	498	24.7	10.51	487.49
MW-6	489	16.2	11.09	477.91

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 (10/11/07)
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-NTU	Depth to Water-feet
12:50	10/11/2007	17.10	62.8	7.16	222.0	12.7	21.82
12:55	10/11/2007	16.70	62.1	6.76	219.0	299	

Location:	MW-2						
Time	Date	Temp-C	Temp-F	pH	SpC-mS/cm	Turbidity-NTU	Depth to Water-feet
11:35	10/11/2007	14.90	58.8	6.34	152.0	48.1	20.61

Location:	MW-3						
Time	Date	Temp-C	Temp-F	pH	SpC-mS/cm	Turbidity-NTU	Depth to Water-feet
1035	10/11/2007	15.4	59.7	6.29	69.5	88.8	13.06
1040	10/11/2007	15.4	59.7	6.38	71.0	90.9	
1045	10/11/2007	15.5	59.9	6.39	70.7	96.1	

Location:	MW-4						
Time	Date	Temp-C	Temp-F	pH	SpC-mS/cm	Turbidity-NTU	Depth to Water-feet
11:40	10/11/2007	14.9	58.8	6.61	132.0	8.7	23.04
11:45	10/11/2007	14.8	58.6	6.77	142.0	13.5	
11:50	10/11/2007	14.6	58.3	6.86	146.0	5.7	
11:55	10/11/2007	14.6	58.3	6.75	148.0	>1000	

Location:	MW-5						
Time	Date	Temp-C	Temp-F	pH	SpC-mS/cm	Turbidity-NTU	Depth to Water-feet
9:00	10/11/2007	15.2	59.4	6.38	89.7	4.3	10.51
9:05	10/11/2007	15.3	59.5	6.58	79.1	3.1	
9:10	10/11/2007	15.4	59.7	6.72	61.9	5.9	

Location:	MW-6						
Time	Date	Temp-C	Temp-F	pH	SpC-mS/cm	Turbidity-NTU	Depth to Water-feet
9:43	10/11/2007	15.9	60.6	7.05	21.3	19.3	11.09
9:47	10/11/2007	16.1	61.0	6.95	16.5	20.0	
9:52	10/11/2007	16.2	61.2	6.91	16.0	19.1	

Location:	Surface water						
Time	Date	Temp-C	Temp-F	pH	SpC-mS/cm	Turbidity-NTU	Depth to Water-feet
DRY							

TABLE 3
GROUNDWATER ANALYTICAL RESULTS SUMMARY (10/11/07)
DETECTED 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		
Benzene	ND	**2.2**	0.69J	**1.1**	**1.0**	ND	1	1
Chlorobenzene	ND	**22.0**	**6.2**	**9.6**	**4.2**	ND	3	50
Chloroethane	ND	3.2J	1.6J	2.6J	2.7J	ND	10	2800
1,4-Dichlorobenzene	ND	**19.7**	**4.8**	**15.0**	**12.3**	ND	1	1.4
1,2-Dichlorobenzene	ND	2.7J	0.64J	1.8J	1.8J	ND	5	24
1,1-Dichloroethane	ND	ND	ND	ND	3.6J	ND	5	70
cis 1,2-Dichloroethene	ND	ND	ND	ND	3.8J	ND	5	70
Toluene	ND	0.57J	ND	0.29J	ND	ND	1	1000
Vinyl Chloride	ND	**0.86J**	ND	ND	ND	ND	1	0.015
Xylenes (Total)	ND	0.76J	ND	ND	ND	ND	5	530
o-Xylene	ND	0.62J	ND	0.54J	0.26J	ND	5	530

All concentrations reported in micrograms per liter (ug/L)
NC SWSL = North Carolina Solid Waste Section Limit
ND = Analyate not detected
NCAC 2L stds. = 15A North Carolina Administrative Code 2L .0200, GW Quality Standards for Class GA groundwater.
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 2L standards.

TABLE 4
GROUNDWATER ANALYTICAL RESULTS SUMMARY (10/11/07)
8-RCRA METALS
CASWELL COUNTY LANDFILL
YANCEYVILLE, NORTH CAROLINA
S&ME PROJECT NO. 1584-07-034

Constituent	Sample Locations						NC SWSL	NCAC 2L
	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6		
Arsenic	ND	3.8J	ND	ND	ND	ND	10	50
Barium	43.9J	**180.0**	70.7J	52.6J	15.2J	55.0J	100	2000
Cadmium	**1.0**	**1.1**	0.56J	ND	ND	ND	1	1.75
Chromium	2.6J	2.5J	1.1J	0.68J	ND	ND	10	50
Lead	ND	ND	ND	ND	ND	ND	10	15
Selenium	ND	5.5J	4.9J	ND	ND	4.3J	10	50
Silver	ND	ND	ND	ND	ND	ND	10	17.5
Mercury	**0.60**	ND	**0.47**	**3.9**	ND	ND	0.2	1.05

All concentrations reported in micrograms per liter (ug/L)
NC SWSL = North Carolina Solid Waste Section Limit
ND = Analyate not detected
NCAC 2L stds. = 15A North Carolina Administrative Code 2L .0200, GW Quality Standards for Class GA groundwater.
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 2L standards.

TABLE 5
SURFACE WATER ANALYTICAL RESULTS SUMMARY (10/11/07)
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*
Acrylonitrile	DRY	200	NE
Benzene		1	1
Bromochloromethane		NE	NE
Bromodichloromethane		3	NE
Bromoform		1	0.56
Bromomethane		3	4.43
2-Butanone (MEK)		20	NE
Carbon disulfide		100	700
Carbon tetrachloride		1	0.269
Chlorobenzene		3	50
Chloroethane		10	NE
Chloroform		10	2800
Chloromethane		5	70
1,2-Dibromo-3-chloropropane		NE	NE
Dibromochloromethane		10	NE
1,2-Dibromoethane (EDB)		13	0.025
Dibromomethane ND		3	NE
1,2-Dichlorobenzene		1	0.0004
1,4-Dichlorobenzene		1	NE
trans-1,4-Dichloro-2-butene		100	NE
1,1-Dichloroethane		10	350
1,2-Dichloroethane		1	0.0004
1,1-Dichloroethene		5	70
cis-1,2-Dichloroethene ND		10	4.79
trans-1,2-Dichloroethene		1.5	0.031
1,2-Dichloropropane		1	0.51
cis-1,3-Dichloropropene		1	0.19
trans-1,3-Dichloropropene		1	0.19
Ethylbenzene		1	550
2-Hexanone		10	0.36
Iodomethane		10	0.0479
Methylene Chloride		10	NE
4-Methyl-2-pentanone (MIBK)		10	NE
Styrene		1	100
1,1,1,2-Tetrachloroethane		5	NE
1,1,2,2-Tetrachloroethane		3	NE
Tetrachloroethene		NE	70
Toluene		1	1000
1,1,1-Trichloroethane		5	NE
1,1,2-Trichloroethane		1	NE
Trichloroethene		100	NE
Trichlorofluoromethane		1	2.8
1,2,3-Trichloropropane		1	0.005
Vinyl acetate		50	NE
Vinyl chloride		50	NE
Xylene (Total)		5	530
m&p-Xylene		NE	NE
o-Xylene		NE	NE

NC SWSL= North Carolina Solid Waste Section Limit
15A NCAC 2B =
NE = Title 15A NCAC 2B provides no established standard
Quantities highlighted in yellow were detected above the NC SWSL
Quantities highlighted in orange were detected above the 2B standards

TABLE 6
SURFACE WATER ANALYTICAL RESULTS SUMMARY
(10/11/07)
8-RCRA METALS
CASWELL COUNTY LANDFILL
YANCEYVILLE, NORTH CAROLINA
S&ME PROJECT NO. 1584-07-034

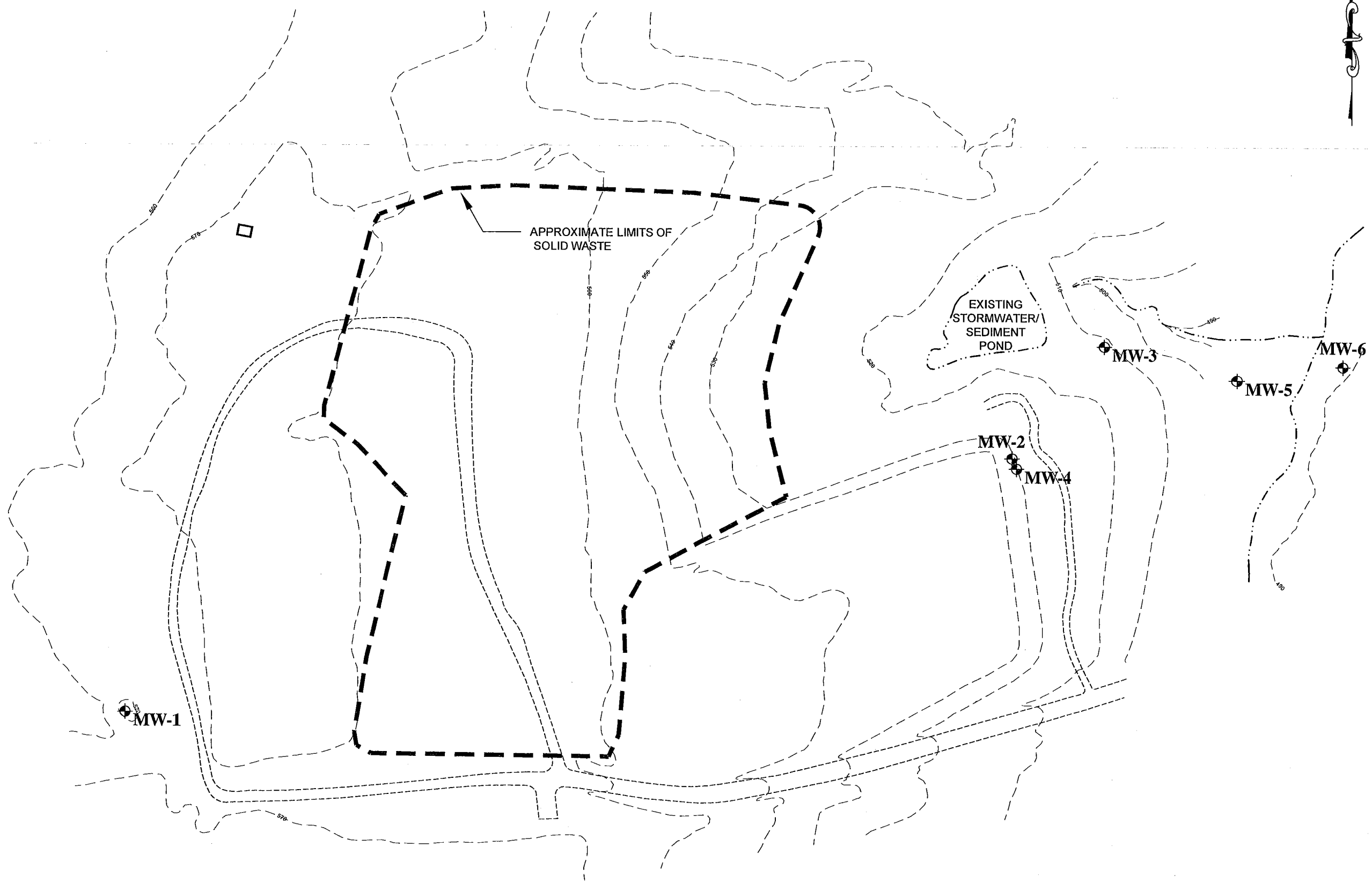
Constituent	Sample Locations	NC SWSL	15A NCAC 2B
Arsenic	DRY	10	50
Barium		100	2000
Cadmium		1	1.75
Chromium		10	50
Lead		10	15
Selenium		10	50
Silver		10	17.5
Mercury		0.2	1.05

NC SWSL = North Carolina Solid Waste Section Limit

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

Yellow highlights indicate a measurement higher than the NC SWSL
Orange highlights indicate a measurement higher than 2B standards.

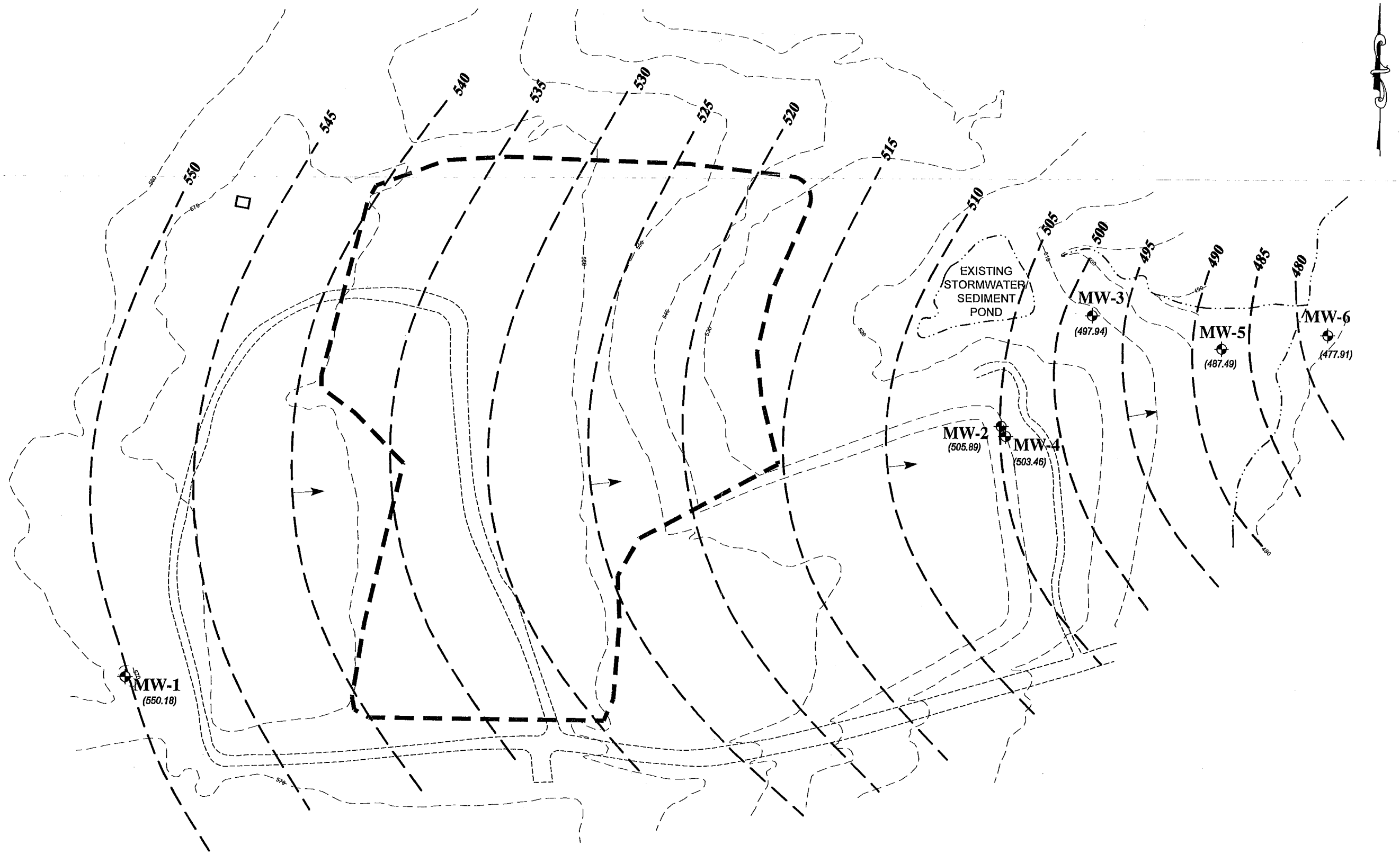
FIGURES



SITE PLAN
CASWELL COUNTY LANDFILL
YANCEYVILLE, NORTH CAROLINA

SCALE: AS SHOWN	DRAWN BY: RDM
JOB NO. 1584-07-034	DATE: OCTOBER 2007
CHECKED BY: CDW	FIGURE NO. 1

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



KEY
- MONITORING WELL LOCATION
- GROUNDWATER CONTOUR
(505.89) - GROUNDWATER ELEVATION MEASURED IN MONITORING WELL
- GROUNDWATER FLOW DIRECTION

GRAPHIC SCALE
120 60 0 120
SCALE: 1" = 120'

GROUNDWATER CONTOUR MAP
CASWELL COUNTY LANDFILL
YANCEYVILLE, NORTH CAROLINA

SCALE: AS SHOWN	DRAWN BY: RDM	CHECKED BY: JD	
JOB NO. 1584-07-034	DATE: OCTOBER 2007	FIGURE NO. 2	

S&ME
3718 OLD BATTLEGROUND ROAD
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APPENDIX A

Groundwater Sampling Field Data Sheets

S&ME FIELD DATA SHEET FOR GROUNDWATER SAMPLING

DATE 10/11/07
FIELD PERSONNEL Gary Simcox
FACILITY NAME Caswell County Landfill
EPA ID NO.
WELL ID NO. MW-1

☐ UPGRADIENT ☐ DOWNGRADIENT

WEATHER CONDITIONS RAINY/(CLEAR)/WINDY/PARTLY CLOUDY/WARM/HOT
AIR TEMPERATURE 52 °F
TOTAL WELL DEPTH (TWD) 24.5 1/100 ft
DEPTH TO GROUNDWATER (DGW) 21.82 1/100 ft
LENGTH OF WATER COLUMN (LWC) = TWD − DGW = 2.5 ft
1 CASING VOLUME (OCV) = LWC X .17 = .45 gal
3 CASING VOLUMES = 1.4 GAL. = STD EVACUATION VOLUME
METHOD OF WELL EVACUATION SUBMERSIBLE PUMP/GEL T BAILER/B-K PUMP
METHOD OF SAMPLE COLLECTION DEDICATED T BAILER/GEL-T BAILER/B-K BAILER
TOTAL VOLUME OF WATER REMOVED gal

CASING DIAMETER ☑ 2 INCHES ☐ 4 INCHES
CASING MATERIAL ☑ PVC ☐ TEFLON ☐ STEEL
MEASURING POINT ELEVATION (MSL) 1/100 ft
WATER TABLE ELEVATION (MSL) 1/100 ft
pH/SPECIAL CONDITION METER CAL (DATE/TIME)
pH BUFFER SOLUTION USED
STEEL GUARD PIPE AROUND CASING ☑ YES ☐ NO
LOCKING CAP ☑ YES ☐ NO
PROTECTIVE ABUTMENT ☐ YES ☑ NO
WELL INTEGRITY SATISFACTORY ☑ YES ☐ NO
WELL YIELD ☑ LOW ☐ MEDIUM ☐ HIGH

CONTAINERS

PERSONNEL	DATE	TIME	NO.	TYPE	PRESERV	PARAMETER
Gary Simcox	10/11/07	1300	4			

FIELD ANALYSIS

VOLUME PURGED (GAL) LITER	1	2					
TIME (MILITARY)	1250	1255					
pH (S.U.)	7.16	6.76					
CONDUCTIVITY	.222	.219					
WATER TEMP (°C)	17.1	16.7					
TURBIDITY (SUBJECTIVE)*	12.7	299					
ODOR (SUBJECTIVE)** DO	9.89	9.60					

* (1) clear (2) slight (3) moderate (4) high ** (1) none (2) faint (3) moderate (4) high

S&ME FIELD DATA SHEET FOR GROUNDWATER SAMPLING

DATE 10/11/07
FIELD PERSONNEL Gary Simcox
FACILITY NAME Caswell County Landfill
EPA ID NO.
WELL ID NO. MW-2

☐ UPGRADIENT ☐ DOWNGRADIENT

WEATHER CONDITIONS RAINY/(CLEAR)/WINDY/PARTLY CLOUDY/WARM/HOT
AIR TEMPERATURE 55 °F
TOTAL WELL DEPTH (TWD) 22.3 1/100 ft
DEPTH TO GROUNDWATER (DGW) 20.61 1/100 ft
LENGTH OF WATER COLUMN (LWC) = TWD − DGW = 1.7 ft
1 CASING VOLUME (OCV) = LWC X .17 = .30 gal
3 CASING VOLUMES = .90 GAL. = STD EVACUATION VOLUME
METHOD OF WELL EVACUATION SUBMERSIBLE PUMP/GKL T BAILER/B-K PUMP
METHOD OF SAMPLE COLLECTION DEDICATED T BAILER/GKL-T BAILER/B-K BAILER
TOTAL VOLUME OF WATER REMOVED gal

CASING DIAMETER ☑ 2 INCHES ☐ 4 INCHES
CASING MATERIAL ☑ PVC ☐ TEFLON ☐ STEEL
MEASURING POINT ELEVATION (MSL) 1/100 ft
WATER TABLE ELEVATION (MSL) 1/100 ft
pH/SPECIAL CONDITION METER CAL (DATE/TIME)
pH BUFFER SOLUTION USED
STEEL GUARD PIPE AROUND CASING ☑ YES ☐ NO
LOCKING CAP ☑ YES ☐ NO
PROTECTIVE ABUTMENT ☐ YES ☑ NO
WELL INTEGRITY SATISFACTORY ☑ YES ☐ NO
WELL YIELD ☑ LOW ☐ MEDIUM ☐ HIGH

CONTAINERS

PERSONNEL	DATE	TIME	NO.	TYPE	PRESERV	PARAMETER
Gary Simcox	10/11/07	1130	4			

GRAB SAMPLE W/ BAILER

FIELD ANALYSIS

VOLUME PURGED (GAL.)	1 LITER						
TIME (MILITARY)	1135						
pH (S.U.)	6.34						
CONDUCTIVITY S/m	.152						
WATER TEMP (°C)	14.9						
TURBIDITY (SUBJECTIVE)*	48.1						
ODOR (SUBJECTIVE)** DO	12.35						

* (1) clear (2) slight (3) moderate (4) high ** (1) none (2) faint (3) moderate (4) high

S&ME FIELD DATA SHEET FOR GROUNDWATER SAMPLING

DATE 10/11/07
FIELD PERSONNEL Gary Simcox
FACILITY NAME Caswell County Landfill
EPA ID NO.
WELL ID NO. MW-3

☐ UPGRADIENT ☐ DOWNGRADIENT

WEATHER CONDITIONS RAINY/(CLEAR)/WINDY/PARTLY CLOUDY/WARM/HOT
AIR TEMPERATURE 60 °F
TOTAL WELL DEPTH (TWD) 17.8 1/100 ft
DEPTH TO GROUNDWATER (DGW) 13.06 1/100 ft
LENGTH OF WATER COLUMN (LWC) = TWD − DGW = 4.7 ft
1 CASING VOLUME (OCV) = LWC X .17 = .80 gal
3 CASING VOLUMES = 2.4 GAL = STD EVACUATION VOLUME
METHOD OF WELL EVACUATION SUBMERSIBLE PUMP/GEL-T BAILER/B-K PUMP
METHOD OF SAMPLE COLLECTION DEDICATED T BAILER/GEL-T BAILER/B-K BAILER
TOTAL VOLUME OF WATER REMOVED gal

CASING DIAMETER ☑ 2 INCHES ☐ 4 INCHES
CASING MATERIAL ☑ PVC ☐ TEFLON ☐ STEEL
MEASURING POINT ELEVATION (MSL) 1/100 ft
WATER TABLE ELEVATION (MSL) 1/100 ft
pH/SPECIAL CONDITION METER CAL (DATE/TIME)
pH BUFFER SOLUTION USED
STEEL GUARD PIPE AROUND CASING ☑ YES ☐ NO
LOCKING CAP ☑ YES ☐ NO
PROTECTIVE ABUTMENT ☐ YES ☑ NO
WELL INTEGRITY SATISFACTORY ☑ YES ☐ NO
WELL YIELD ☑ LOW ☐ MEDIUM ☐ HIGH

CONTAINERS

PERSONNEL	DATE	TIME	NO.	TYPE	PRESERV	PARAMETER
Gary Simcox	10/11/07	1050	4			

PERISTALTIC PUMA

FIELD ANALYSIS

VOLUME PURGED LITERS	0	1	2	3			
TIME (MILITARY)	1030	1035	1040	1045			
pH (S.U.)		6.29	6.38	6.39			
CONDUCTIVITY		69.5	71.0	70.7			
WATER TEMP (°C)		15.4	15.4	15.5			
TURBIDITY (SUBJECTIVE)*		88.8	90.9	96.1			
ODOR (SUBJECTIVE)**	DO	8.70	7.09	6.93			

* (1) clear (2) slight (3) moderate (4) high ** (1) none (2) faint (3) moderate (4) high

S&ME FIELD DATA SHEET FOR GROUNDWATER SAMPLING

DATE 10/11/07
FIELD PERSONNEL Gary Simcox
FACILITY NAME Caswell County Landfill
EPA ID NO.
WELL ID NO. MW-4

☐ UPGRADIENT ☐ DOWNGRADIENT

WEATHER CONDITIONS RAINY/(CLEAR)/WINDY/PARTLY CLOUDY/WARM/HOT
AIR TEMPERATURE 60 °F
TOTAL WELL DEPTH (TWD) 36.0 1/100 ft
DEPTH TO GROUNDWATER (DGW) 23.04 1/100 ft
LENGTH OF WATER COLUMN (LWC) = TWD − DGW = 13 ft
1 CASING VOLUME (OCV) = LWC X .17 = 2.2 gal
3 CASING VOLUMES = 6.6 GAL. = STD EVACUATION VOLUME
METHOD OF WELL EVACUATION SUBMERSIBLE PUMP/GEL T BAILER/B-K PUMP
METHOD OF SAMPLE COLLECTION DEDICATED T BAILER/GEL-T BAILER/B-K BAILER
TOTAL VOLUME OF WATER REMOVED gal

CASING DIAMETER ☑ 2 INCHES ☐ 4 INCHES
CASING MATERIAL ☑ PVC ☐ TEFLON ☐ STEEL
MEASURING POINT ELEVATION (MSL) 1/100 ft
WATER TABLE ELEVATION (MSL) 1/100 ft
pH/SPECIAL CONDITION METER CAL (DATE/TIME)
pH BUFFER SOLUTION USED
STEEL GUARD PIPE AROUND CASING ☑ YES ☐ NO
LOCKING CAP ☑ YES ☐ NO
PROTECTIVE ABUTMENT ☐ YES ☑ NO
WELL INTEGRITY SATISFACTORY ☑ YES ☐ NO
WELL YIELD ☐ LOW ☐ MEDIUM ☐ HIGH

CONTAINERS

PERSONNEL	DATE	TIME	NO.	TYPE	PRESERV	PARAMETER
Gary Simcox	10/11/07	1200	4			

Purge & Sample w/ Bailer

FIELD ANALYSIS

Dry @ 7.5 Liters

VOLUME PURGED (Liter)	1.5	3.0	4.5	7.5			
TIME (MILITARY)	1140	1145	1150	1155			
pH (S.U.)	6.61	6.77	6.86	6.75			
CONDUCTIVITY	.132	.142	.146	.148			
WATER TEMP (°C)	14.9	14.8	14.6	14.0			
TURBIDITY (SUBJECTIVE)*	8.7	13.5	5.7	> 1000			
ODOR (SUBJECTIVE)** DO	12.64	13.94	12.48	8.43			

* (1) clear (2) slight (3) moderate (4) high ** (1) none (2) faint (3) moderate (4) high

S&ME FIELD DATA SHEET FOR GROUNDWATER SAMPLING

DATE 10/11/07
FIELD PERSONNEL Gary Simcox
FACILITY NAME Caswell County Landfill
EPA ID NO.
WELL ID NO. MW-5

☐ UPGRADIENT ☐ DOWNGRADIENT

WEATHER CONDITIONS RAINY/CLEAR/WINDY/PARTLY CLOUDY/WARM/HOT
AIR TEMPERATURE 60 °F
TOTAL WELL DEPTH (TWD) 24.7 1/100 ft
DEPTH TO GROUNDWATER (DGW) 10.51 1/100 ft
LENGTH OF WATER COLUMN (LWC) = TWD − DGW = 14.2 ft
1 CASING VOLUME (OCV) = LWC X .17 = 2.4 gal
3 CASING VOLUMES = 7.2 GAL. = STD EVACUATION VOLUME
METHOD OF WELL EVACUATION SUBMERSIBLE PUMP/GKL T BAILER/B-K PUMP
METHOD OF SAMPLE COLLECTION DEDICATED T BAILER/GKL-T BAILER/B-K BAILER
TOTAL VOLUME OF WATER REMOVED gal

CASING DIAMETER ☑ 2 INCHES ☐ 4 INCHES
CASING MATERIAL ☑ PVC ☐ TEFLON ☐ STEEL
MEASURING POINT ELEVATION (MSL) 1/100 ft
WATER TABLE ELEVATION (MSL) 1/100 ft
pH/SPECIAL CONDITION METER CAL (DATE/TIME)
pH BUFFER SOLUTION USED
STEEL GUARD PIPE AROUND CASING ☑ YES ☐ NO
LOCKING CAP ☑ YES ☐ NO
PROTECTIVE ABUTMENT ☐ YES ☑ NO
WELL INTEGRITY SATISFACTORY ☑ YES ☐ NO
WELL YIELD ☑ LOW ☐ MEDIUM ☐ HIGH

CONTAINERS

PERSONNEL	DATE	TIME	NO.	TYPE	PRESERV	PARAMETER
Gary Simcox	10/11/07	0915	4			

PERISTALTIC PUMP

FIELD ANALYSIS

WELL DRY @ 1.5 GALLONS (NOTE: H_2O BELOW 18')

VOLUME PURGED (LITERS)	0	2 LITERS	4 LITERS	6 LITERS			
TIME (MILITARY)	0855	0900	0905	0910			
pH (S.U.)		6.38	6.58	6.72			
CONDUCTIVITY m S/m		89.7	79.1	61.9			
WATER TEMP (°C)		15.2	15.3	15.4			
TURBIDITY (SUBJECTIVE)*		4.3	3.1	5.9			
ODOR (SUBJECTIVE)**	DO	9.67	8.42	7.40			

* (1) clear (2) slight (3) moderate (4) high ** (1) none (2) faint (3) moderate (4) high

S&ME FIELD DATA SHEET FOR GROUNDWATER SAMPLING

DATE 10/11/07
FIELD PERSONNEL Gary Simcox
FACILITY NAME Caswell County Landfill
EPA ID NO.
WELL ID NO. MW-6

☐ UPGRADIENT ☐ DOWNGRADIENT

WEATHER CONDITIONS RAINY/(CLEAR)/WINDY/PARTLY CLOUDY/WARM/HOT
AIR TEMPERATURE 60 °F
TOTAL WELL DEPTH (TWD) 16.2 1/100 ft
DEPTH TO GROUNDWATER (DGW) 11.09 1/100 ft
LENGTH OF WATER COLUMN (LWC) = TWD − DGW = 5.1 ft
1 CASING VOLUME (OCV) = LWC X .17 = .87 gal
3 CASING VOLUMES = 2.6 GAL. = STD EVACUATION VOLUME
METHOD OF WELL EVACUATION SUBMERSIBLE PUMP/GEL T BAILER/B-K PUMP
METHOD OF SAMPLE COLLECTION DEDICATED T BAILER/GEL-T BAILER/B-K BAILER
TOTAL VOLUME OF WATER REMOVED gal

CASING DIAMETER ☑ 2 INCHES ☐ 4 INCHES
CASING MATERIAL ☑ PVC ☐ TEFLON ☐ STEEL
MEASURING POINT ELEVATION (MSL) 1/100 ft
WATER TABLE ELEVATION (MSL) 1/100 ft
pH/SPECIAL CONDITION METER CAL (DATE/TIME)
pH BUFFER SOLUTION USED
STEEL GUARD PIPE AROUND CASING ☑ YES ☐ NO
LOCKING CAP ☑ YES ☐ NO
PROTECTIVE ABUTMENT ☐ YES ☑ NO
WELL INTEGRITY SATISFACTORY ☑ YES ☐ NO
WELL YIELD ☑ LOW ☐ MEDIUM ☐ HIGH

CONTAINERS

PERSONNEL	DATE	TIME	NO.	TYPE	PRESERV	PARAMETER
Gary Simcox	10/11/07	1055	4			

Peristaltic Pump

FIELD ANALYSIS

	0	1	2	3			
VOLUME PURGED (LITER)							
TIME (MILITARY)	0940	0943	0947	0952			
pH (S.U.)		7.05	6.95	6.91			
CONDUCTIVITY		21.3	16.5	16.0			
WATER TEMP (°C)		15.9	16.1	16.2			
TURBIDITY (SUBJECTIVE)*		19.3	20.0	19.1			
ODOR (SUBJECTIVE)**	DO	8.07	7.30	7.34			

* (1) clear (2) slight (3) moderate (4) high ** (1) none (2) faint (3) moderate (4) high

APPENDIX B

Laboratory Analytical Reports

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Pace Analytical Services, Inc.
370 West Meadow Road
Eden, NC 27288
(336)623-8921

January 30, 2008

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

RE: Project: CASWELL COUNTY LANDFILL
Pace Project No.: 925689

Dear Mr. Howard:
Enclosed are the analytical results for sample(s) received by the laboratory on October 12, 2007. The results relate only to the samples included in this report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

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

Sincerely,

Kevin Herring

Kevin Herring

kevin.herring@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: CASWELL COUNTY LANDFILL
Pace Project No.: 925689

Charlotte Certification IDs
Florida/NELAP Certification Number: E87627
Kansas Certification Number: E-10364
Louisiana/LELAP Certification Number: 04034
North Carolina Drinking Water Certification Number: 37706
North Carolina Wastewater Certification Number: 12
North Carolina Field Services Certification Number: 5342
South Carolina Certification Number: 990060001
South Carolina Bioassay Certification Number: 990060003
Tennessee Certification Number: 04010
Virginia Certification Number: 00213

Asheville Certification IDs
Florida/NELAP Certification Number: E87648
Louisiana/LELAP Certification Number: 03095
New Jersey Certification Number: NC011
North Carolina Drinking Water Certification Number: 37712
North Carolina Wastewater Certification Number: 40
North Carolina Bioassay Certification Number: 9
Pennsylvania Certification Number: 68-03578
South Carolina Certification Number: 99030001
South Carolina Bioassay Certification Number: 99030002
Tennessee Certification Number: 2980
Virginia Certification Number: 00072

Eden Certification IDs
North Carolina Drinking Water Certification Number: 37738
Virginia Drinking Water Certification Number: 00424
North Carolina Wastewater Certification Number: 633

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SAMPLE SUMMARY

Project: CASWELL COUNTY LANDFILL
Pace Project No.: 925689

Lab ID	Sample ID	Matrix	Date Collected	Date Received
925689001	MW-1	Water	10/11/07 13:00	10/12/07 17:45
925689002	MW-2	Water	10/11/07 11:30	10/12/07 17:45
925689003	MW-3	Water	10/11/07 10:50	10/12/07 17:45
925689004	MW-4	Water	10/11/07 12:00	10/12/07 17:45
925689005	MW-5	Water	10/11/07 09:15	10/12/07 17:45
925689006	MW-6	Water	10/11/07 10:55	10/12/07 17:45

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SAMPLE ANALYTE COUNT

Project: CASWELL COUNTY LANDFILL
Pace Project No.: 925689

Lab ID	Sample ID	Method	Analysts	Analytes Reported
925689001	MW-1	EPA 6010 GW North Carolina	SHB	7
		EPA 7470	SAJ	1
		EPA 8260	MCK	53
925689002	MW-2	EPA 6010 GW North Carolina	EWS	7
		EPA 7470	SAJ	1
		EPA 8260	MCK	53
925689003	MW-3	EPA 6010 GW North Carolina	EWS	7
		EPA 7470	SAJ	1
		EPA 8260	MCK	53
925689004	MW-4	EPA 6010 GW North Carolina	EWS	7
		EPA 7470	SAJ	1
		EPA 8260	MCK	53
925689005	MW-5	EPA 6010 GW North Carolina	EWS	7
		EPA 7470	SAJ	1
		EPA 8260	MCK	53
925689006	MW-6	EPA 6010 GW North Carolina	EWS	7
		EPA 7470	SAJ	1
		EPA 8260	MCK	53

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ANALYTICAL RESULTS

Project: CASWELL COUNTY LANDFILL
Pace Project No.: 925689

Sample: MW-1 **Lab ID: 925689001** Collected: 10/11/07 13:00 Received: 10/12/07 17:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010								
Arsenic	ND	ug/L	5.0	2.7	1	10/17/07 14:15	10/22/07 20:07	7440-38-2	
Barium	**43.9J**	ug/L	100	0.20	1	10/17/07 14:15	10/22/07 20:07	7440-39-3	
Cadmium	**1.0**	ug/L	1.0	0.50	1	10/17/07 14:15	10/22/07 20:07	7440-43-9	
Chromium	**2.6J**	ug/L	5.0	0.40	1	10/17/07 14:15	10/22/07 20:07	7440-47-3	
Lead	ND	ug/L	5.0	4.0	1	10/17/07 14:15	10/22/07 20:07	7439-92-1	
Selenium	ND	ug/L	10.0	3.8	1	10/17/07 14:15	10/22/07 20:07	7782-49-2	
Silver	ND	ug/L	5.0	0.10	1	10/17/07 14:15	10/22/07 20:07	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.60**	ug/L	0.20	0.090	1	10/22/07 14:07	10/23/07 11:32	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		10/19/07 01:10	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		10/19/07 01:10	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		10/19/07 01:10	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/19/07 01:10	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/19/07 01:10	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/19/07 01:10	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		10/19/07 01:10	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/19/07 01:10	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/19/07 01:10	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/19/07 01:10	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		10/19/07 01:10	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		10/19/07 01:10	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/19/07 01:10	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/19/07 01:10	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		10/19/07 01:10	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/19/07 01:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/19/07 01:10	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/19/07 01:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		10/19/07 01:10	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/19/07 01:10	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		10/19/07 01:10	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		10/19/07 01:10	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/19/07 01:10	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/19/07 01:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		10/19/07 01:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/19/07 01:10	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/19/07 01:10	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/19/07 01:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/19/07 01:10	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/19/07 01:10	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/19/07 01:10	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		10/19/07 01:10	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/19/07 01:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/19/07 01:10	108-10-1	

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ANALYTICAL RESULTS

Project: CASWELL COUNTY LANDFILL
Pace Project No.: 925689

Sample: MW-1 **Lab ID: 925689001** Collected: 10/11/07 13:00 Received: 10/12/07 17:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Styrene	ND	ug/L	1.0	0.26	1		10/19/07 01:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/19/07 01:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/19/07 01:10	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/19/07 01:10	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/19/07 01:10	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/19/07 01:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/19/07 01:10	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/19/07 01:10	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/19/07 01:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/19/07 01:10	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/19/07 01:10	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/19/07 01:10	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/19/07 01:10	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/19/07 01:10	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		10/19/07 01:10	95-47-6	
4-Bromofluorobenzene (S)	93	%	87-109		1		10/19/07 01:10	460-00-4	
Dibromofluoromethane (S)	104	%	85-115		1		10/19/07 01:10	1868-53-7	
1,2-Dichloroethane-d4 (S)	109	%	79-120		1		10/19/07 01:10	17060-07-0	
Toluene-d8 (S)	99	%	70-120		1		10/19/07 01:10	2037-26-5	

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ANALYTICAL RESULTS

Project: CASWELL COUNTY LANDFILL
Pace Project No.: 925689

Sample: MW-2 **Lab ID: 925689002** Collected: 10/11/07 11:30 Received: 10/12/07 17:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010								
Arsenic	**3.8J**	ug/L	5.0	2.7	1	10/19/07 16:30	10/24/07 18:11	7440-38-2	
Barium	**180**	ug/L	100	0.20	1	10/19/07 16:30	10/24/07 18:11	7440-39-3	
Cadmium	**1.1**	ug/L	1.0	0.50	1	10/19/07 16:30	10/24/07 18:11	7440-43-9	
Chromium	**2.5J**	ug/L	5.0	0.40	1	10/19/07 16:30	10/24/07 18:11	7440-47-3	
Lead	ND	ug/L	5.0	4.0	1	10/19/07 16:30	10/24/07 18:11	7439-92-1	
Selenium	**5.5J**	ug/L	10.0	3.8	1	10/19/07 16:30	10/24/07 18:11	7782-49-2	
Silver	ND	ug/L	5.0	0.10	1	10/19/07 16:30	10/24/07 18:11	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.090	1	10/22/07 14:07	10/23/07 11:35	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		10/19/07 01:34	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		10/19/07 01:34	107-13-1	
Benzene	**2.2**	ug/L	1.0	0.25	1		10/19/07 01:34	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/19/07 01:34	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/19/07 01:34	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/19/07 01:34	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		10/19/07 01:34	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/19/07 01:34	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/19/07 01:34	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/19/07 01:34	56-23-5	
Chlorobenzene	**22.0**	ug/L	3.0	0.23	1		10/19/07 01:34	108-90-7	
Chloroethane	**3.2J**	ug/L	10.0	0.54	1		10/19/07 01:34	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/19/07 01:34	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/19/07 01:34	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		10/19/07 01:34	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/19/07 01:34	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/19/07 01:34	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/19/07 01:34	74-95-3	
1,2-Dichlorobenzene	**2.7J**	ug/L	5.0	0.30	1		10/19/07 01:34	95-50-1	
1,4-Dichlorobenzene	**19.7**	ug/L	1.0	0.33	1		10/19/07 01:34	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		10/19/07 01:34	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		10/19/07 01:34	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/19/07 01:34	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/19/07 01:34	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		10/19/07 01:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/19/07 01:34	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/19/07 01:34	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/19/07 01:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/19/07 01:34	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/19/07 01:34	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/19/07 01:34	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		10/19/07 01:34	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/19/07 01:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/19/07 01:34	108-10-1	

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ANALYTICAL RESULTS

Project: CASWELL COUNTY LANDFILL
Pace Project No.: 925689

Sample: MW-2 **Lab ID: 925689002** Collected: 10/11/07 11:30 Received: 10/12/07 17:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Styrene	ND	ug/L	1.0	0.26	1		10/19/07 01:34	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/19/07 01:34	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/19/07 01:34	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/19/07 01:34	127-18-4	
Toluene	**0.57J**	ug/L	1.0	0.26	1		10/19/07 01:34	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/19/07 01:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/19/07 01:34	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/19/07 01:34	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/19/07 01:34	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/19/07 01:34	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/19/07 01:34	108-05-4	
Vinyl chloride	**0.86J**	ug/L	1.0	0.62	1		10/19/07 01:34	75-01-4	
Xylene (Total)	**0.76J**	ug/L	2.0	0.66	1		10/19/07 01:34	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/19/07 01:34	1330-20-7	
o-Xylene	**0.62J**	ug/L	1.0	0.23	1		10/19/07 01:34	95-47-6	
4-Bromofluorobenzene (S)	92	%	87-109		1		10/19/07 01:34	460-00-4	
Dibromofluoromethane (S)	106	%	85-115		1		10/19/07 01:34	1868-53-7	
1,2-Dichloroethane-d4 (S)	107	%	79-120		1		10/19/07 01:34	17060-07-0	
Toluene-d8 (S)	99	%	70-120		1		10/19/07 01:34	2037-26-5	

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ANALYTICAL RESULTS

Project: CASWELL COUNTY LANDFILL
Pace Project No.: 925689

Sample: MW-3 **Lab ID: 925689003** Collected: 10/11/07 10:50 Received: 10/12/07 17:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010								
Arsenic	ND	ug/L	5.0	2.7	1	10/19/07 16:30	10/24/07 18:19	7440-38-2	
Barium	**70.7J**	ug/L	100	0.20	1	10/19/07 16:30	10/24/07 18:19	7440-39-3	
Cadmium	**0.56J**	ug/L	1.0	0.50	1	10/19/07 16:30	10/24/07 18:19	7440-43-9	
Chromium	**1.1J**	ug/L	5.0	0.40	1	10/19/07 16:30	10/24/07 18:19	7440-47-3	
Lead	ND	ug/L	5.0	4.0	1	10/19/07 16:30	10/24/07 18:19	7439-92-1	
Selenium	**4.9J**	ug/L	10.0	3.8	1	10/19/07 16:30	10/24/07 18:19	7782-49-2	
Silver	ND	ug/L	5.0	0.10	1	10/19/07 16:30	10/24/07 18:19	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.47**	ug/L	0.20	0.090	1	10/23/07 10:57	10/23/07 13:36	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		10/19/07 01:58	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		10/19/07 01:58	107-13-1	
Benzene	**0.69J**	ug/L	1.0	0.25	1		10/19/07 01:58	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/19/07 01:58	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/19/07 01:58	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/19/07 01:58	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		10/19/07 01:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/19/07 01:58	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/19/07 01:58	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/19/07 01:58	56-23-5	
Chlorobenzene	**6.2**	ug/L	1.0	0.23	1		10/19/07 01:58	108-90-7	
Chloroethane	**1.6J**	ug/L	1.0	0.54	1		10/19/07 01:58	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/19/07 01:58	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/19/07 01:58	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		10/19/07 01:58	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/19/07 01:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/19/07 01:58	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/19/07 01:58	74-95-3	
1,2-Dichlorobenzene	**0.64J**	ug/L	1.0	0.30	1		10/19/07 01:58	95-50-1	
1,4-Dichlorobenzene	**4.8**	ug/L	1.0	0.33	1		10/19/07 01:58	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		10/19/07 01:58	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/19/07 01:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/19/07 01:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/19/07 01:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		10/19/07 01:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/19/07 01:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/19/07 01:58	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/19/07 01:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/19/07 01:58	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/19/07 01:58	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/19/07 01:58	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		10/19/07 01:58	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/19/07 01:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/19/07 01:58	108-10-1	

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ANALYTICAL RESULTS

Project: CASWELL COUNTY LANDFILL
Pace Project No.: 925689

Sample: MW-3 **Lab ID: 925689003** Collected: 10/11/07 10:50 Received: 10/12/07 17:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Styrene	ND	ug/L	1.0	0.26	1		10/19/07 01:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/19/07 01:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/19/07 01:58	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/19/07 01:58	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/19/07 01:58	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/19/07 01:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/19/07 01:58	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/19/07 01:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/19/07 01:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/19/07 01:58	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/19/07 01:58	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/19/07 01:58	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/19/07 01:58	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/19/07 01:58	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		10/19/07 01:58	95-47-6	
4-Bromofluorobenzene (S)	92	%	87-109		1		10/19/07 01:58	460-00-4	
Dibromofluoromethane (S)	105	%	85-115		1		10/19/07 01:58	1868-53-7	
1,2-Dichloroethane-d4 (S)	107	%	79-120		1		10/19/07 01:58	17060-07-0	
Toluene-d8 (S)	99	%	70-120		1		10/19/07 01:58	2037-26-5	

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ANALYTICAL RESULTS

Project: CASWELL COUNTY LANDFILL
Pace Project No.: 925689

Sample: MW-4 **Lab ID: 925689004** Collected: 10/11/07 12:00 Received: 10/12/07 17:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010								
Arsenic	ND	ug/L	5.0	2.7	1	10/19/07 16:30	10/24/07 18:28	7440-38-2	
Barium	**52.6J**	ug/L	100	0.20	1	10/19/07 16:30	10/24/07 18:28	7440-39-3	
Cadmium	ND	ug/L	1.0	0.50	1	10/19/07 16:30	10/24/07 18:28	7440-43-9	
Chromium	**0.68J**	ug/L	5.0	0.40	1	10/19/07 16:30	10/24/07 18:28	7440-47-3	
Lead	ND	ug/L	5.0	4.0	1	10/19/07 16:30	10/24/07 18:28	7439-92-1	
Selenium	ND	ug/L	10.0	3.8	1	10/19/07 16:30	10/24/07 18:28	7782-49-2	
Silver	ND	ug/L	5.0	0.10	1	10/19/07 16:30	10/24/07 18:28	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**3.9**	ug/L	0.20	0.090	1	10/23/07 10:57	10/23/07 13:41	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		10/19/07 02:21	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		10/19/07 02:21	107-13-1	
Benzene	**1.1**	ug/L	1.0	0.25	1		10/19/07 02:21	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/19/07 02:21	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/19/07 02:21	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/19/07 02:21	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		10/19/07 02:21	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/19/07 02:21	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/19/07 02:21	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/19/07 02:21	56-23-5	
Chlorobenzene	**9.6**	ug/L	3.0	0.23	1		10/19/07 02:21	108-90-7	
Chloroethane	**2.6J**	ug/L	10.0	0.54	1		10/19/07 02:21	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/19/07 02:21	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/19/07 02:21	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		10/19/07 02:21	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/19/07 02:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/19/07 02:21	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/19/07 02:21	74-95-3	
1,2-Dichlorobenzene	**1.8J**	ug/L	5.0	0.30	1		10/19/07 02:21	95-50-1	
1,4-Dichlorobenzene	**15.0**	ug/L	1.0	0.33	1		10/19/07 02:21	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		10/19/07 02:21	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		10/19/07 02:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/19/07 02:21	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/19/07 02:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		10/19/07 02:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/19/07 02:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/19/07 02:21	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/19/07 02:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/19/07 02:21	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/19/07 02:21	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/19/07 02:21	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		10/19/07 02:21	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/19/07 02:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/19/07 02:21	108-10-1	

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ANALYTICAL RESULTS

Project: CASWELL COUNTY LANDFILL
Pace Project No.: 925689

Sample: MW-4 **Lab ID: 925689004** Collected: 10/11/07 12:00 Received: 10/12/07 17:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Styrene	ND	ug/L	1.0	0.26	1		10/19/07 02:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/19/07 02:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/19/07 02:21	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/19/07 02:21	127-18-4	
Toluene	**0.29J**	ug/L	1.0	0.26	1		10/19/07 02:21	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/19/07 02:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/19/07 02:21	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/19/07 02:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/19/07 02:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/19/07 02:21	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/19/07 02:21	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/19/07 02:21	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/19/07 02:21	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/19/07 02:21	1330-20-7	
o-Xylene	**0.54J**	ug/L	1.0	0.23	1		10/19/07 02:21	95-47-6	
4-Bromofluorobenzene (S)	91	%	87-109		1		10/19/07 02:21	460-00-4	
Dibromofluoromethane (S)	104	%	85-115		1		10/19/07 02:21	1868-53-7	
1,2-Dichloroethane-d4 (S)	107	%	79-120		1		10/19/07 02:21	17060-07-0	
Toluene-d8 (S)	99	%	70-120		1		10/19/07 02:21	2037-26-5	

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ANALYTICAL RESULTS

Project: CASWELL COUNTY LANDFILL
Pace Project No.: 925689

Sample: MW-5 **Lab ID: 925689005** Collected: 10/11/07 09:15 Received: 10/12/07 17:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010								
Arsenic	ND	ug/L	5.0	2.7	1	10/19/07 16:30	10/24/07 18:32	7440-38-2	
Barium	**15.2J**	ug/L	100	0.20	1	10/19/07 16:30	10/24/07 18:32	7440-39-3	
Cadmium	ND	ug/L	1.0	0.50	1	10/19/07 16:30	10/24/07 18:32	7440-43-9	
Chromium	ND	ug/L	5.0	0.40	1	10/19/07 16:30	10/24/07 18:32	7440-47-3	
Lead	ND	ug/L	5.0	4.0	1	10/19/07 16:30	10/24/07 18:32	7439-92-1	
Selenium	ND	ug/L	10.0	3.8	1	10/19/07 16:30	10/24/07 18:32	7782-49-2	
Silver	ND	ug/L	5.0	0.10	1	10/19/07 16:30	10/24/07 18:32	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.090	1	10/23/07 10:57	10/23/07 13:46	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		10/19/07 02:45	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		10/19/07 02:45	107-13-1	
Benzene	**1.0**	ug/L	1.0	0.25	1		10/19/07 02:45	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/19/07 02:45	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/19/07 02:45	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/19/07 02:45	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		10/19/07 02:45	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/19/07 02:45	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/19/07 02:45	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/19/07 02:45	56-23-5	
Chlorobenzene	**4.2**	ug/L	3.0	0.23	1		10/19/07 02:45	108-90-7	
Chloroethane	**2.7J**	ug/L	10.0	0.54	1		10/19/07 02:45	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/19/07 02:45	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/19/07 02:45	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		10/19/07 02:45	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/19/07 02:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/19/07 02:45	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/19/07 02:45	74-95-3	
1,2-Dichlorobenzene	**1.8J**	ug/L	5.0	0.30	1		10/19/07 02:45	95-50-1	
1,4-Dichlorobenzene	**12.3**	ug/L	1.0	0.33	1		10/19/07 02:45	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		10/19/07 02:45	110-57-6	
1,1-Dichloroethane	**3.6J**	ug/L	5.0	0.32	1		10/19/07 02:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/19/07 02:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/19/07 02:45	75-35-4	
cis-1,2-Dichloroethene	**3.8J**	ug/L	5.0	0.19	1		10/19/07 02:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/19/07 02:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/19/07 02:45	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/19/07 02:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/19/07 02:45	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/19/07 02:45	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/19/07 02:45	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		10/19/07 02:45	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/19/07 02:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/19/07 02:45	108-10-1	

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ANALYTICAL RESULTS

Project: CASWELL COUNTY LANDFILL
Pace Project No.: 925689

Sample: MW-5 **Lab ID: 925689005** Collected: 10/11/07 09:15 Received: 10/12/07 17:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Styrene	ND	ug/L	1.0	0.26	1		10/19/07 02:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/19/07 02:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/19/07 02:45	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/19/07 02:45	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/19/07 02:45	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/19/07 02:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/19/07 02:45	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/19/07 02:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/19/07 02:45	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/19/07 02:45	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/19/07 02:45	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/19/07 02:45	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/19/07 02:45	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/19/07 02:45	1330-20-7	
o-Xylene	**0.26J**	ug/L	1.0	0.23	1		10/19/07 02:45	95-47-6	
4-Bromofluorobenzene (S)	94	%	87-109		1		10/19/07 02:45	460-00-4	
Dibromofluoromethane (S)	107	%	85-115		1		10/19/07 02:45	1868-53-7	
1,2-Dichloroethane-d4 (S)	108	%	79-120		1		10/19/07 02:45	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		10/19/07 02:45	2037-26-5	

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ANALYTICAL RESULTS

Project: CASWELL COUNTY LANDFILL
Pace Project No.: 925689

Sample: MW-6 **Lab ID: 925689006** Collected: 10/11/07 10:55 Received: 10/12/07 17:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010								
Arsenic	ND	ug/L	5.0	2.7	1	10/19/07 16:30	10/24/07 18:36	7440-38-2	
Barium	**55.0J**	ug/L	100	0.20	1	10/19/07 16:30	10/24/07 18:36	7440-39-3	
Cadmium	ND	ug/L	1.0	0.50	1	10/19/07 16:30	10/24/07 18:36	7440-43-9	
Chromium	ND	ug/L	5.0	0.40	1	10/19/07 16:30	10/24/07 18:36	7440-47-3	
Lead	ND	ug/L	5.0	4.0	1	10/19/07 16:30	10/24/07 18:36	7439-92-1	
Selenium	**4.3J**	ug/L	10.0	3.8	1	10/19/07 16:30	10/24/07 18:36	7782-49-2	
Silver	ND	ug/L	5.0	0.10	1	10/19/07 16:30	10/24/07 18:36	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.090	1	10/23/07 10:57	10/23/07 13:49	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		10/19/07 03:09	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		10/19/07 03:09	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		10/19/07 03:09	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/19/07 03:09	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/19/07 03:09	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/19/07 03:09	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		10/19/07 03:09	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/19/07 03:09	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/19/07 03:09	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/19/07 03:09	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		10/19/07 03:09	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		10/19/07 03:09	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/19/07 03:09	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/19/07 03:09	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		10/19/07 03:09	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/19/07 03:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/19/07 03:09	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/19/07 03:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		10/19/07 03:09	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/19/07 03:09	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		10/19/07 03:09	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		10/19/07 03:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/19/07 03:09	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/19/07 03:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		10/19/07 03:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/19/07 03:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/19/07 03:09	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/19/07 03:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/19/07 03:09	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/19/07 03:09	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/19/07 03:09	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		10/19/07 03:09	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/19/07 03:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/19/07 03:09	108-10-1	

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ANALYTICAL RESULTS

Project: CASWELL COUNTY LANDFILL
Pace Project No.: 925689

Sample: MW-6 **Lab ID: 925689006** Collected: 10/11/07 10:55 Received: 10/12/07 17:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Styrene	ND	ug/L	1.0	0.26	1		10/19/07 03:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/19/07 03:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/19/07 03:09	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/19/07 03:09	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/19/07 03:09	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/19/07 03:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/19/07 03:09	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/19/07 03:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/19/07 03:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/19/07 03:09	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/19/07 03:09	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/19/07 03:09	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/19/07 03:09	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/19/07 03:09	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		10/19/07 03:09	95-47-6	
4-Bromofluorobenzene (S)	92	%	87-109		1		10/19/07 03:09	460-00-4	
Dibromofluoromethane (S)	106	%	85-115		1		10/19/07 03:09	1868-53-7	
1,2-Dichloroethane-d4 (S)	108	%	79-120		1		10/19/07 03:09	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		10/19/07 03:09	2037-26-5	

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QUALITY CONTROL DATA

Project: CASWELL COUNTY LANDFILL
Pace Project No.: 925689

QC Batch: MPRP/1313
QC Batch Method: EPA 3010
Associated Lab Samples: 925689001

Analysis Method: EPA 6010 GW North Carolina
Analysis Description: 6010 MET NC Groundwater

METHOD BLANK: 28793
Associated Lab Samples: 925689001

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Arsenic	ug/L	ND	5.0	
Barium	ug/L	ND	100	
Cadmium	ug/L	ND	1.0	
Chromium	ug/L	ND	5.0	
Lead	ug/L	ND	5.0	
Selenium	ug/L	ND	10.0	
Silver	ug/L	ND	5.0	

LABORATORY CONTROL SAMPLE: 28794

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	500	100	80-120	
Barium	ug/L	500	494	99	80-120	
Cadmium	ug/L	500	506	101	80-120	
Chromium	ug/L	500	506	101	80-120	
Lead	ug/L	500	506	101	80-120	
Selenium	ug/L	500	499	100	80-120	
Silver	ug/L	250	253	101	80-120	

MATRIX SPIKE SAMPLE: 28795

Parameter	Units	925425001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	ND	500	658	131	75-125	M3
Barium	ug/L	101	500	717	123	75-125	
Cadmium	ug/L	9.4	500	649	128	75-125	M3
Chromium	ug/L	ND	500	674	135	75-125	M3
Lead	ug/L	ND	500	633	127	75-125	M3
Selenium	ug/L	ND	500	649	129	75-125	M3
Silver	ug/L	ND	250	275	110	75-125	

SAMPLE DUPLICATE: 28796

Parameter	Units	925425002 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	ug/L	ND	ND	71	25	
Barium	ug/L	75.7	75.5J	.3	25	
Cadmium	ug/L	ND	ND	49	25	
Chromium	ug/L	0.42J	0.49J	15	25	
Lead	ug/L	ND	ND		25	

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Eden, NC 27288
(336)623-8921

QUALITY CONTROL DATA

Project: CASWELL COUNTY LANDFILL
Pace Project No.: 925689

SAMPLE DUPLICATE: 28796

Parameter	Units	925425002 Result	Dup Result	RPD	Max RPD	Qualifiers
Selenium	ug/L	5.5J	3.9J	34	25	
Silver	ug/L	ND	ND		25	

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QUALITY CONTROL DATA

Project: CASWELL COUNTY LANDFILL
Pace Project No.: 925689

QC Batch: MSV/1568 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 925689001, 925689002, 925689003, 925689004, 925689005, 925689006

METHOD BLANK: 29392
Associated Lab Samples: 925689001, 925689002, 925689003, 925689004, 925689005, 925689006

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	
1,1,1-Trichloroethane	ug/L	ND	1.0	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	
1,1,2-Trichloroethane	ug/L	ND	1.0	
1,1-Dichloroethane	ug/L	ND	5.0	
1,1-Dichloroethene	ug/L	ND	1.0	
1,2,3-Trichloropropane	ug/L	ND	1.0	
1,2-Dibromo-3-chloropropane	ug/L	ND	3.0	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	
1,2-Dichlorobenzene	ug/L	ND	5.0	
1,2-Dichloroethane	ug/L	ND	1.0	
1,2-Dichloropropane	ug/L	ND	1.0	
1,4-Dichlorobenzene	ug/L	ND	1.0	
2-Butanone (MEK)	ug/L	ND	5.0	
2-Hexanone	ug/L	ND	5.0	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	
Acetone	ug/L	ND	25.0	
Acrylonitrile	ug/L	ND	10.0	
Benzene	ug/L	ND	1.0	
Bromochloromethane	ug/L	ND	1.0	
Bromodichloromethane	ug/L	ND	1.0	
Bromoform	ug/L	ND	1.0	
Bromomethane	ug/L	ND	5.0	
Carbon disulfide	ug/L	ND	2.0	
Carbon tetrachloride	ug/L	ND	1.0	
Chlorobenzene	ug/L	ND	3.0	
Chloroethane	ug/L	ND	10.0	
Chloroform	ug/L	ND	1.0	
Chloromethane	ug/L	ND	1.0	
cis-1,2-Dichloroethene	ug/L	ND	5.0	
cis-1,3-Dichloropropene	ug/L	ND	1.0	
Dibromochloromethane	ug/L	ND	1.0	
Dibromomethane	ug/L	ND	1.0	
Ethylbenzene	ug/L	ND	1.0	
Iodomethane	ug/L	ND	5.0	
m&p-Xylene	ug/L	ND	2.0	
Methylene Chloride	ug/L	1.3J	2.0	
o-Xylene	ug/L	ND	1.0	
Styrene	ug/L	ND	1.0	
Tetrachloroethene	ug/L	ND	1.0	
Toluene	ug/L	ND	1.0	
trans-1,2-Dichloroethene	ug/L	ND	1.0	
trans-1,3-Dichloropropene	ug/L	ND	1.0	

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QUALITY CONTROL DATA

Project: CASWELL COUNTY LANDFILL
Pace Project No.: 925689

METHOD BLANK: 29392

Associated Lab Samples: 925689001, 925689002, 925689003, 925689004, 925689005, 925689006

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
trans-1,4-Dichloro-2-butene	ug/L	ND	1.0	
Trichloroethene	ug/L	ND	1.0	
Trichlorofluoromethane	ug/L	ND	1.0	
Vinyl acetate	ug/L	ND	2.0	
Vinyl chloride	ug/L	ND	1.0	
Xylene (Total)	ug/L	ND	2.0	
1,2-Dichloroethane-d4 (S)	%	108	79-120	
4-Bromofluorobenzene (S)	%	92	87-109	
Dibromofluoromethane (S)	%	107	85-115	
Toluene-d8 (S)	%	99	70-120	

LABORATORY CONTROL SAMPLE: 29393

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.7	107	83-125	
1,1,1-Trichloroethane	ug/L	50	51.4	103	80-129	
1,1,2,2-Tetrachloroethane	ug/L	50	49.8	100	73-127	
1,1,2-Trichloroethane	ug/L	50	48.7	97	77-123	
1,1-Dichloroethane	ug/L	50	44.3	89	76-129	
1,1-Dichloroethene	ug/L	50	56.0	112	78-146	
1,2,3-Trichloropropane	ug/L	50	52.7	105	72-125	
1,2-Dibromo-3-chloropropane	ug/L	50	55.9	112	65-128	
1,2-Dibromoethane (EDB)	ug/L	50	48.2	96	81-125	
1,2-Dichlorobenzene	ug/L	50	58.4	117	82-126	
1,2-Dichloroethane	ug/L	50	48.7	97	72-126	
1,2-Dichloropropane	ug/L	50	48.7	97	80-127	
1,4-Dichlorobenzene	ug/L	50	56.6	113	79-125	
2-Butanone (MEK)	ug/L	100	108	108	50-134	
2-Hexanone	ug/L	100	110	110	58-138	
4-Methyl-2-pentanone (MIBK)	ug/L	100	104	104	70-131	
Acetone	ug/L	100	131	131	50-146	
Acrylonitrile	ug/L	250	218	87	66-124	
Benzene	ug/L	50	49.5	99	78-128	
Bromochloromethane	ug/L	50	43.2	86	73-124	
Bromodichloromethane	ug/L	50	44.1	88	81-125	
Bromoform	ug/L	50	48.1	96	71-125	
Bromomethane	ug/L	50	52.2	104	50-150	
Carbon disulfide	ug/L	50	51.1	102	54-150	
Carbon tetrachloride	ug/L	50	52.3	105	81-137	
Chlorobenzene	ug/L	50	53.9	108	82-126	
Chloroethane	ug/L	50	50.9	102	69-140	
Chloroform	ug/L	50	40.3	81	77-129	
Chloromethane	ug/L	50	41.0	82	54-139	
cis-1,2-Dichloroethene	ug/L	50	59.1	118	76-133	
cis-1,3-Dichloropropene	ug/L	50	44.6	89	76-127	

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QUALITY CONTROL DATA

Project: CASWELL COUNTY LANDFILL
Pace Project No.: 925689

LABORATORY CONTROL SAMPLE: 29393

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromochloromethane	ug/L	50	47.1	94	77-125	
Dibromomethane	ug/L	50	44.9	90	77-125	
Ethylbenzene	ug/L	50	53.9	108	80-127	
Iodomethane	ug/L	100	112	112	65-172	
m&p-Xylene	ug/L	100	108	108	82-127	
Methylene Chloride	ug/L	50	45.0	90	67-133	
o-Xylene	ug/L	50	53.4	107	83-124	
Styrene	ug/L	50	50.5	101	80-130	
Tetrachloroethene	ug/L	50	55.5	111	78-128	
Toluene	ug/L	50	49.2	98	76-126	
trans-1,2-Dichloroethene	ug/L	50	52.9	106	78-134	
trans-1,3-Dichloropropene	ug/L	50	44.8	90	75-125	
trans-1,4-Dichloro-2-butene	ug/L	50	52.1	104	51-140	
Trichloroethene	ug/L	50	51.2	102	79-127	
Trichlorofluoromethane	ug/L	50	48.7	97	76-148	
Vinyl acetate	ug/L	100	89.4	89	50-150	
Vinyl chloride	ug/L	50	50.8	102	67-143	
Xylene (Total)	ug/L	150	150	100	83-125	
1,2-Dichloroethane-d4 (S)	%			108	79-120	
4-Bromofluorobenzene (S)	%			93	87-109	
Dibromofluoromethane (S)	%			103	85-115	
Toluene-d8 (S)	%			99	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 29394 29395

Parameter	Units	925689001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	63.1	58.9	126	118	60-150	7	30	
Benzene	ug/L	ND	50	50	50.6	48.8	101	98	74-136	4	30	
Chlorobenzene	ug/L	ND	50	50	56.7	54.3	113	109	79-135	4	30	
Toluene	ug/L	ND	50	50	50.2	47.8	100	96	73-131	5	30	
Trichloroethene	ug/L	ND	50	50	50.5	47.9	101	96	73-131	5	30	
1,2-Dichloroethane-d4 (S)	%						111	110	79-120			
4-Bromofluorobenzene (S)	%						94	93	87-109			
Dibromofluoromethane (S)	%						106	105	85-115			
Toluene-d8 (S)	%						99	99	70-120			

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QUALITY CONTROL DATA

Project: CASWELL COUNTY LANDFILL
Pace Project No.: 925689

QC Batch: MPRP/1325 | Analysis Method: EPA 6010 GW North Carolina
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 925689002, 925689003, 925689004, 925689005, 925689006

METHOD BLANK: 29905
Associated Lab Samples: 925689002, 925689003, 925689004, 925689005, 925689006

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Arsenic	ug/L	ND	5.0	
Barium	ug/L	ND	100	
Cadmium	ug/L	ND	1.0	
Chromium	ug/L	2.4J	5.0	
Lead	ug/L	ND	5.0	
Selenium	ug/L	ND	10.0	
Silver	ug/L	ND	5.0	

LABORATORY CONTROL SAMPLE: 29906

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	441	88	80-120	
Barium	ug/L	500	402	80	80-120	
Cadmium	ug/L	500	448	90	80-120	
Chromium	ug/L	500	423	85	80-120	
Lead	ug/L	500	448	90	80-120	
Selenium	ug/L	500	433	87	80-120	
Silver	ug/L	250	235	94	80-120	

MATRIX SPIKE SAMPLE: 29907

Parameter	Units	925689002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	3.8J	500	464	92	75-125	
Barium	ug/L	180	500	587	81	75-125	
Cadmium	ug/L	1.1	500	450	90	75-125	
Chromium	ug/L	2.5J	500	427	85	75-125	
Lead	ug/L	ND	500	454	90	75-125	
Selenium	ug/L	5.5J	500	458	90	75-125	
Silver	ug/L	ND	250	241	96	75-125	

SAMPLE DUPLICATE: 29908

Parameter	Units	925689003 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	ug/L	ND	ND		25	
Barium	ug/L	70.7J	72.0J	2	25	
Cadmium	ug/L	0.56J	ND	40	25	
Chromium	ug/L	1.1J	0.95J	14	25	
Lead	ug/L	ND	ND	8	25	

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QUALITY CONTROL DATA

Project: CASWELL COUNTY LANDFILL
Pace Project No.: 925689

SAMPLE DUPLICATE: 29908

Parameter	Units	925689003 Result	Dup Result	RPD	Max RPD	Qualifiers
Selenium	ug/L	4.9J	4.0J	21	25	
Silver	ug/L	ND	ND		25	

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QUALITY CONTROL DATA

Project: CASWELL COUNTY LANDFILL
Pace Project No.: 925689

QC Batch: MERP/1116 | Analysis Method: EPA 7470
QC Batch Method: EPA 7470 | Analysis Description: 7470 Mercury
Associated Lab Samples: 925689001, 925689002

METHOD BLANK: 30678
Associated Lab Samples: 925689001, 925689002

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ug/L	ND	0.20	

LABORATORY CONTROL SAMPLE: 30679

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.6	104	80-120	

MATRIX SPIKE SAMPLE: 30680

Parameter	Units	925531001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	2.5	2.6	101	75-125	

SAMPLE DUPLICATE: 30681

Parameter	Units	925531002 Result	Dup Result	RPD	Max RPD	Qualifiers
Mercury	ug/L	ND	ND	38	25	

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QUALITY CONTROL DATA

Project: CASWELL COUNTY LANDFILL
Pace Project No.: 925689

QC Batch: MERP/1118 | Analysis Method: EPA 7470
QC Batch Method: EPA 7470 | Analysis Description: 7470 Mercury
Associated Lab Samples: 925689003, 925689004, 925689005, 925689006

METHOD BLANK: 31017
Associated Lab Samples: 925689003, 925689004, 925689005, 925689006

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ug/L	ND	0.20	

LABORATORY CONTROL SAMPLE: 31018

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.4	94	80-120	

MATRIX SPIKE SAMPLE: 31019

Parameter	Units	925689003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	0.47	2.5	1.8	54	75-125	M0

SAMPLE DUPLICATE: 31020

Parameter	Units	925689004 Result	Dup Result	RPD	Max RPD	Qualifiers
Mercury	ug/L	3.9	ND		25	R1

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QUALIFIERS

Project: CASWELL COUNTY LANDFILL
Pace Project No.: 925689

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.

ANALYTE QUALIFIERS

M0	Matrix spike recovery was outside laboratory control limits.
M3	Matrix spike recovery was outside laboratory control limits due to matrix interferences.
R1	RPD value was outside control limits.

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

1139658

Section A Required Client Information:

Company: S&ME, INC.
Address: 3718 OLD BATTLEGROUND GREENSBORO NC 27410
Email To:
Phone: 336-288-7180 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: CONNEL WARE
Copy To:
Purchase Order No.:
Project Name: CASWELL COUNTY LANDFILL
Project Number: 1584-07-034

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 1298-2

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE:

Section D Required Client Information

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	AMI VOAS	8 RCRA METALS	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-1	W	G			10/11/07	1300		4										X	X		925689001
2	MW-2	W	G			10/11/07	1130		4										X	X		2
3	MW-3	W	G			10/11/07	1050		4										X	X		3
4	MW-4	W	G			10/11/07	1200		4										X	X		4
5	MW-5	W	G			10/11/07	0915		4										X	X		5
6	MW-6	W	G			10/11/07	1055		4										X	X		6
7																						
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
PLEASE CONTACT CONNEL WARE w/ ANY QUESTIONS.	[signature] / PACE	10/12/7	8:06	[signature] / PACE	10/12/7	8:06
	[signature] / PACE	10/12/7	17:45	[signature]	10/12/7	17:45

SAMPLE CONDITIONS	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	4.4	yes	no	yes

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: GARY SIMPOX
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 10/11/07

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

APPENDIX C

NC DENR Environmental Monitoring Reporting Form
And Electronic Data

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

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

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

Instructions:

- **Prepare one form for each individually monitored unit.**
- **Please type or print legibly.**
- Attach a notification table with values that attain or exceed NC 2L groundwater standards or NC 2B surface water standards. The notification must include a preliminary analysis of the cause and significance of each value. (e.g. naturally occurring, off-site source, pre-existing condition, etc.).
- Attach a notification table of any groundwater or surface water values that equal or exceed the reporting limits.
- Attach a notification table of any methane gas values that attain or exceed explosive gas levels. This includes any structures on or nearby the facility (NCAC 13B .1629 (4)(a)(i).
- 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 Yanceville, NC 27379	1701	.0500	October 11, 2007

Environmental Status: (Check all that apply)

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

Type of data submitted: (Check all that apply)

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

Notification attached?

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

Certification

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

Edmund Q. B. Henriques — Environmental Department Manager — (336) 288-7180

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

Signature — Date

Affix NC Licensed/ Professional Geologist/Engineer Seal here:

Revised 01/2007