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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):

Municipal Engineering Services Co., P.A.

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

Name: Jonathan Pfohl Phone: (919) 772-5393

E-mail: jpfohl@mesco.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Hertford County Closed MSWLF	227 Mount Moriah Road Winton, NC 27986	46-01	.0500	December 5, 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.

Jonathan Pfohl — Facility Representative Name (Print)

Environmental Specialist — Title

(919) 772-5393 — (Area Code) Telephone Number

Signature

2/6/08 — Date

Affix NC Licensed/ Professional Geologist/Engineer Seal here:

Revised 01/2007

Semi-Annual Groundwater Sampling and Analysis Report

Prepared for

Hertford County Closed MSWLF
Winton, North Carolina

December, 2007

Permit Number: 46-01
MESCO Project Number: G07012.0

Completed on February 6, 2008

Municipal Services Garner, NC
Engineering Company, P.A. Boone, NC
Municipal Engineering Services Company, P.A.
Garner, Boone and Morehead City, North Carolina

OPERATION/CONSTRUCTION MANAGERS

Municipal Services

CIVIL/SANITARY ENGINEERS

Engineering Company, P.A.

February 6, 2008

Ms. Jaclynne Drummond
Solid Waste Section
Division of Waste Management
North Carolina Department of Environment and Natural Resources
401 Oberlin Road, Suite 150
Raleigh, NC 27605

Re: Groundwater Sampling and Analysis
Hertford County Closed Sanitary Landfill
Permit No. 46-01
MESCO Project No. G07012.0

Dear Ms. Drummond:

All of the 13 monitoring wells at the Hertford County Closed Sanitary Landfill were sampled for the complete list of Appendix I metals and VOCs on December 5, 2007. Surface water SW-3 was dry but all of the other surface waters were sampled for the identical parameters. All of the field sampling and laboratory analysis were conducted by Environment 1, Inc. of Greenville, North Carolina. The results of the lab analysis are included herein.

All detected constituents were analyzed for regulatory exceedance with reference to North Carolina Groundwater Standards. All of the parameters were analyzed at the method detection limits (MDL) with respect to the Sections recommended reporting limits (SWSL) and the groundwater protection standard (GWP). The results are shown in the enclosed tables titled "Detection Scan". The following table summarize those constituents that exceeded the SWSL and the NCGW2L Standards.

Table 1. Exceedance Summary

Well	Barium	Cadmium	Vinyl Chloride	TCE	PCE	1,4-Dichlorobenzene	Benzene
MW-A							x
MW-B			x	x	x		
MW-E			x			x	x
MW-F			x			x	x
MW-H	x		x			x	x
MW-I			x			x	x
MW-J			x		x		
MW-K			x				
MW-L		x	x				

x=concentration greater than SWSL and the NCGW2L standard

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PO Box 828, Morehead City, NC 28557 (252) 726-9481 PO Box 349, Boone, North Carolina 28607 (828) 262-1767

Metals were detected within all of the monitoring wells but only barium within MW-H and cadmium within MW-L were found above the Standard. Barium has consistently been found within MW-H since monitoring began but levels were found within the historical identifiable range. Cadmium was detected within MW-L for the first time since 1999 but it's concentration is also within it's respective historical range.

Quantifiable concentrations of VOCs continue to be detected within monitoring wells MW-A, MW-B, MW-E, MW-F, MW-H, MW-I, MW-J, MW-K, and MW-L. The increase in low level VOC detections is attributed to the reduction of the reporting limits to the MDL and should not be misconstrued as a recent release. However no Appendix I volatile organic constituents (VOCs) were detected in water samples from any surface water site. The detected VOCs continue to primarily consist of chlorinated ethanes.

The often final biodegradation byproduct vinyl chloride continues to be the most prevalent VOC detected upon the site with the parameter found above the Standard within all of the wells with the exception of MW-C and MW-M. This is the premier event that vinyl chloride has been detected within compliance wells MW-K but the reduction of reporting limits from 5 ug/L to 1 ug/L is the likely cause not a recent release. All wells except for MW-E were found to have lower vinyl chloride concentrations compared to the previous event but all vinyl chloride detections were found within their historical identifiable range and levels of the purgeable halocarbon appear to not be increasing.

MW-K, located downgradient and north of the waste limit, was found to contain VOCs for the first time since the well was installed in 1995. The reduction in detection limits has revealed low level concentrations of PCE and vinyl chloride within MW-K. The complete lack of historical detections coupled with the direction and distance from the waste boundary may indicate a false positive for the low level contaminants.

An active gas control collection system (GCCS) equipped with a blower attached to several gas extraction wells along the west perimeter of the closed landfill continues to operate. The active GCCS has reduced the lateral migration of LFG as evidenced by the reduction of methane gas detected within MW-F and methane probes west of the property line. By decreasing the lateral migration of the LFG the VOC concentrations within the aquifer may also decrease over time along the western property boundary.

The results of the latest semi-annual sampling event indicate that the groundwater quality remains consistent and has not degraded compared to previous several sampling events. Due to the reduction of detection limits low levels of VOCs have now been discovered further from the waste boundary than previously known. Landfill gas (LFG) is known to be migrating within the sandy soils beneath the facility and may be attributing to the lower level dissolved VOCs within the groundwater especially in the wells located upgradient of the waste boundary. However, Potecasi Creek which serves as the downgradient local discharge feature continues to not be impacted as indicated by the complete lack of VOCs within SW-4. The residents in closest proximity to the facility are now connected to municipal water therefore no longer sampled since they are not considered to be perceived receptors.

Municipal Engineering Services Co., P.A. completed the enclosed potentiometric map formulated from groundwater elevations on the day of sampling, a table of flow rates and direction, and historical time series plots for most of the exceeded constituents. The Hertford County Closed Landfill is scheduled to be sampled for the Appendix I list of parameters in June 2008. The GCCS will continue operation and following the next sampling event the VOC trends will again be further evaluated to determine if any effect it has on the groundwater quality. If you have any questions or comments regarding this report, please contact me by phone at (919) 772-5393 or by email at jpfohl@mesco.com.

Sincerely,
MUNICIPAL ENGINEERING SERVICES CO., P.A.

Jonathan Pfohl
Environmental Specialist

Enclosures
cc: Mr. Melvin Nichols
Hertford County

Detection Scan All Detections above SWSL, GWP, and NCGW2L
Hertford County Closed MSWLF

Well ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [4]	SWSL [2]	NCGW2L [3]	GWP[5]	Exceedance	Preliminary Cause
MW-A	1,4-Dichlorobenzene	12/05/2007	1	ug/l	0.21	1	1.4			
MW-A	Barium	12/05/2007	144	ug/l	0.04	100	2000			
MW-A	**Benzene**	**12/05/2007**	**1.9**	**ug/l**	**0.16**	**1.0**	**1**		**0.9**	**Leachate &/or LFG**
MW-A	Chlorobenzene	12/05/2007	4.9	ug/l	0.13	3	50			
MW-A	**Cobalt**	**12/05/2007**	**145**	**ug/l**	**0.41**	**10.0**		**70**	**75**	**Natural**
MW-A	**Vanadium**	**12/05/2007**	**6.3**	**ug/l**	**0.42**	**25.0**		**3.5**	**2.8**	**Natural**
MW-A	**Vinyl Chloride**	**12/05/2007**	**0.5**	**ug/l**	**0.34**	**1.0**	**0.015**		**0.485**	**Leachate &/or LFG**
MW-A	Zinc	12/05/2007	14	ug/l	0.20	10	1050			
MW-B	**1,1,2,2-Tetrachloroethane**	**12/05/2007**	**0.2**	**ug/l**	**0.16**	**3.0**		**0.18**	**0.02**	**Leachate &/or LFG**
MW-B	Barium	12/05/2007	147	ug/l	0.04	100	2000			
MW-B	Cis-1,2-Dichloroethene	12/05/2007	10.4	ug/l	0.14	5	70			
MW-B	**Cobalt**	**12/05/2007**	**118**	**ug/l**	**0.41**	**10.0**		**70**	**48**	**Natural**
MW-B	**Tetrachloroethene**	**12/05/2007**	**1.4**	**ug/l**	**0.16**	**1.0**	**0.7**		**0.7**	**LFG**
MW-B	**Trichloroethene**	**12/05/2007**	**8.1**	**ug/l**	**0.13**	**1.0**	**2.8**		**5.3**	**LFG**
MW-B	**Vinyl Chloride**	**12/05/2007**	**10.6**	**ug/l**	**0.34**	**1.0**	**0.015**		**10.585**	**LFG**
MW-C	Beryllium	12/05/2007	1	ug/l	0.08	1		2		
MW-C	Zinc	12/05/2007	16	ug/l	0.20	10	1050			
MW-D	Barium	12/05/2007	196	ug/l	0.04	100	2000			
MW-D	Cobalt	12/05/2007	23	ug/l	0.41	10		70		
MW-D	**Vanadium**	**12/05/2007**	**15.8**	**ug/l**	**0.42**	**25.0**		**3.5**	**12.3**	**Natural**
MW-D	**Vinyl Chloride**	**12/05/2007**	**0.5**	**ug/l**	**0.34**	**1.0**	**0.015**		**0.485**	**Leachate &/or LFG**
MW-D	Zinc	12/05/2007	48	ug/l	0.20	10	1050			
MW-E	**1,4-Dichlorobenzene**	**12/05/2007**	**2.7**	**ug/l**	**0.21**	**1.0**	**1.4**		**1.3**	**Leachate &/or LFG**
MW-E	Arsenic	12/05/2007	11	ug/l	0.47	10	50			
MW-E	Barium	12/05/2007	143	ug/l	0.04	100	2000			
MW-E	**Benzene**	**12/05/2007**	**2.2**	**ug/l**	**0.16**	**1.0**	**1**		**1.2**	**Leachate &/or LFG**
MW-E	Chlorobenzene	12/05/2007	16.8	ug/l	0.13	3	50			
MW-E	**Cobalt**	**12/05/2007**	**81**	**ug/l**	**0.41**	**10.0**		**70**	**11**	**Natural**
MW-E	**Vinyl Chloride**	**12/05/2007**	**3.1**	**ug/l**	**0.34**	**1.0**	**0.015**		**3.085**	**Leachate &/or LFG**
MW-E	Zinc	12/05/2007	11	ug/l	0.20	10	1050			
MW-F	**1,2-Dichloroethane**	**12/05/2007**	**0.5**	**ug/l**	**0.12**	**1.0**	**0.38**		**0.12**	**Leachate &/or LFG**
MW-F	**1,4-Dichlorobenzene**	**12/05/2007**	**3.9**	**ug/l**	**0.21**	**1.0**	**1.4**		**2.5**	**Leachate &/or LFG**
MW-F	Barium	12/05/2007	545	ug/l	0.04	100	2000			
MW-F	**Benzene**	**12/05/2007**	**3.4**	**ug/l**	**0.16**	**1.0**	**1**		**2.4**	**Leachate &/or LFG**
MW-F	Beryllium	12/05/2007	1	ug/l	0.08	1		2		
MW-F	Cadmium	12/05/2007	1	ug/l	0.06	1	1.75			
MW-F	Chlorobenzene	12/05/2007	16.5	ug/l	0.13	3	50			
MW-F	Cis-1,2-Dichloroethene	12/05/2007	49.4	ug/l	0.14	5	70			
MW-F	**Cobalt**	**12/05/2007**	**189**	**ug/l**	**0.41**	**10.0**		**70**	**119**	**Natural**
MW-F	Mercury	12/05/2007	0.36	ug/l	0.13	0.2	1.1			
MW-F	**Tetrachloroethene**	**12/05/2007**	**0.9**	**ug/l**	**0.16**	**1.0**	**0.7**		**0.2**	**Leachate &/or LFG**
MW-F	**Thallium**	**12/05/2007**	**1.3**	**ug/l**	**0.07**	**5.0**		**0.28**	**1.02**	**Natural**
MW-F	Trichloroethene	12/05/2007	1.5	ug/l	0.13	1	2.8			
MW-F	**Vanadium**	**12/05/2007**	**8.8**	**ug/l**	**0.42**	**25.0**		**3.5**	**5.3**	**Natural**
MW-F	**Vinyl Chloride**	**12/05/2007**	**10.3**	**ug/l**	**0.34**	**1.0**	**0.015**		**10.285**	**Leachate &/or LFG**
MW-F	Zinc	12/05/2007	375	ug/l	0.20	10	1050			
MW-G	Barium	12/05/2007	117	ug/l	0.04	100	2000			
MW-G	**Vinyl Chloride**	**12/05/2007**	**0.8**	**ug/l**	**0.34**	**1.0**	**0.015**		**0.785**	**LFG**
MW-G	Zinc	12/05/2007	31	ug/l	0.20	10	1050			
MW-H	**1,4-Dichlorobenzene**	**12/05/2007**	**4**	**ug/l**	**0.21**	**1.0**	**1.4**		**2.6**	**Leachate &/or LFG**
MW-H	**Barium**	**12/05/2007**	**2906**	**ug/l**	**0.04**	**100.0**	**2000**		**906**	**Natural**

Well ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [4]	SWSL [2]	NCGW2L [3]	GWP[5]	Exceedance	Preliminary Cause
MW-H	**Benzene**	**12/05/2007**	**2.6**	**ug/l**	**0.16**	**1.0**	**1**		**1.6**	**Leachate &/or LFG**
MW-H	Chlorobenzene	12/05/2007	14.1	ug/l	0.13	3	50			
MW-H	Cis-1,2-Dichloroethene	12/05/2007	21.7	ug/l	0.14	5	70			
MW-H	**Cobalt**	**12/05/2007**	**485**	**ug/l**	**0.41**	**10.0**		**70**	**415**	**Natural**
MW-H	Nickel	12/05/2007	54	ug/l	0.66	50	100			
MW-H	**Thallium**	**12/05/2007**	**0.7**	**ug/l**	**0.07**	**5.0**		**0.28**	**0.42**	**Natural**
MW-H	**Vinyl Chloride**	**12/05/2007**	**6.8**	**ug/l**	**0.34**	**1.0**	**0.015**		**6.785**	**Leachate &/or LFG**
MW-I	**1,4-Dichlorobenzene**	**12/05/2007**	**4.5**	**ug/l**	**0.21**	**1.0**	**1.4**		**3.1**	**Leachate &/or LFG**
MW-I	Barium	12/05/2007	194	ug/l	0.04	100	2000			
MW-I	**Benzene**	**12/05/2007**	**3.3**	**ug/l**	**0.16**	**1.0**	**1**		**2.3**	**Leachate &/or LFG**
MW-I	Chlorobenzene	12/05/2007	19.6	ug/l	0.13	3	50			
MW-I	Cis-1,2-Dichloroethene	12/05/2007	9.6	ug/l	0.14	5	70			
MW-I	Cobalt	12/05/2007	43	ug/l	0.41	10		70		
MW-I	**Vinyl Chloride**	**12/05/2007**	**16.3**	**ug/l**	**0.34**	**1.0**	**0.015**		**16.285**	**Leachate &/or LFG**
MW-I	Zinc	12/05/2007	15	ug/l	0.20	10	1050			
MW-J	**Tetrachloroethene**	**12/05/2007**	**1.1**	**ug/l**	**0.16**	**1.0**	**0.7**		**0.4**	**Leachate &/or LFG**
MW-J	**Vinyl Chloride**	**12/05/2007**	**2.9**	**ug/l**	**0.34**	**1.0**	**0.015**		**2.885**	**Leachate &/or LFG**
MW-J	Zinc	12/05/2007	12	ug/l	0.20	10	1050			
MW-K	Barium	12/05/2007	106	ug/l	0.04	100	2000			
MW-K	Chromium	12/05/2007	14	ug/l	0.24	10	50			
MW-K	**Tetrachloroethene**	**12/05/2007**	**0.9**	**ug/l**	**0.16**	**1.0**	**0.7**		**0.2**	**Leachate &/or LFG**
MW-K	**Vanadium**	**12/05/2007**	**18.3**	**ug/l**	**0.42**	**25.0**		**3.5**	**14.8**	**Natural**
MW-K	**Vinyl Chloride**	**12/05/2007**	**2.8**	**ug/l**	**0.34**	**1.0**	**0.015**		**2.785**	**Leachate &/or LFG**
MW-K	Zinc	12/05/2007	28	ug/l	0.20	10	1050			
MW-L	Barium	12/05/2007	105	ug/l	0.04	100	2000			
MW-L	**Cadmium**	**12/05/2007**	**3**	**ug/l**	**0.06**	**1.0**	**1.75**		**1.25**	**Natural**
MW-L	Cobalt	12/05/2007	67	ug/l	0.41	10		70		
MW-L	Mercury	12/05/2007	0.62	ug/l	0.04	0.2	1.1			
MW-L	**Thallium**	**12/05/2007**	**0.3**	**ug/l**	**0.07**	**5.0**		**0.28**	**0.02**	**Natural**
MW-L	**Vanadium**	**12/05/2007**	**10.7**	**ug/l**	**0.42**	**25.0**		**3.5**	**7.2**	**Natural**
MW-L	**Vinyl Chloride**	**12/05/2007**	**1.3**	**ug/l**	**0.34**	**1.0**	**0.015**		**1.285**	**Leachate &/or LFG**
MW-L	Zinc	12/05/2007	300	ug/l	0.20	10	1050			
SW-1	Cobalt	12/05/2007	20	ug/l	0.41	10		70		
SW-1	Zinc	12/05/2007	39	ug/l	0.20	10	1050			
SW-4	Barium	12/05/2007	375	ug/l	0.04	100	2000			
SW-4	Cobalt	12/05/2007	12	ug/l	0.41	10		70		
SW-4	**Vanadium**	**12/05/2007**	**3.7**	**ug/l**	**0.42**	**25.0**		**3.5**	**0.2**	**Natural**
SW-4	Zinc	12/05/2007	11	ug/l	0.20	10	1050			

[1] Table only contains detected constituents

[2] SWSL = Solid Waste Section Reporting Limit (Current as of Sampling Event)

[3] NCGW2L = North Carolina Ground Water 2L Standard

[4] MDL = Method Detection Limit

[4] GWP = Groundwater Protection Standard (Current as of Sampling Event)

LFG = Landfill Gas

Detection Scan All Detections above MDL
Hertford County Closed MSWLF

Well ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [4]	SWSL [2]	NCGW2L [3]	GWP[5]	Exceedance	Preliminary Cause
MW-A	1,1-Dichloroethane	12/05/2007	1.3	ug/l	0.16	5.0	70			
MW-A	1,4-Dichlorobenzene	12/05/2007	1	ug/l	0.21	1.0	1.4			
MW-A	Acetone	12/05/2007	1.7	ug/l	1.21	100.0	700			
MW-A	Arsenic	12/05/2007	1.4	ug/l	0.47	10.0	50			
MW-A	Barium	12/05/2007	144	ug/l	0.04	100.0	2000			
MW-A	**Benzene**	**12/05/2007**	**1.9**	**ug/l**	**0.16**	**1.0**	**1**		**0.9**	**Leachate &/or LFG**
MW-A	Beryllium	12/05/2007	0.2	ug/l	0.08	1.0		2		
MW-A	Cadmium	12/05/2007	0.6	ug/l	0.06	1.0	1.75			
MW-A	Chlorobenzene	12/05/2007	4.9	ug/l	0.13	3.0	50			
MW-A	Chloroethane	12/05/2007	0.6	ug/l	0.29	10.0	2800			
MW-A	Chromium	12/05/2007	2.5	ug/l	0.24	10.0	50			
MW-A	Cis-1,2-Dichloroethene	12/05/2007	0.3	ug/l	0.14	5.0	70			
MW-A	**Cobalt**	**12/05/2007**	**145**	**ug/l**	**0.41**	**10.0**		**70**	**75**	**Natural**
MW-A	Copper	12/05/2007	3.1	ug/l	0.20	10.0	1000			
MW-A	Lead	12/05/2007	2.1	ug/l	0.07	10.0	15			
MW-A	Mercury	12/05/2007	0.07	ug/l	0.04	0.20	1.1			
MW-A	Nickel	12/05/2007	3.6	ug/l	0.66	50.0	100			
MW-A	Selenium	12/05/2007	0.8	ug/l	0.35	10.0	50			
MW-A	Toluene	12/05/2007	0.8	ug/l	0.13	1.0	1000			
MW-A	**Vanadium**	**12/05/2007**	**6.3**	**ug/l**	**0.42**	**25.0**		**3.5**	**2.8**	**Natural**
MW-A	**Vinyl Chloride**	**12/05/2007**	**0.5**	**ug/l**	**0.34**	**1.0**	**0.015**		**0.485**	**Leachate &/or LFG**
MW-A	Zinc	12/05/2007	14	ug/l	0.20	10.0	1050			
MW-B	1,1-Dichloroethane	12/05/2007	2.4	ug/l	0.16	5.0	70			
MW-B	1,1-Dichloroethene	12/05/2007	0.2	ug/l	0.14	5.0	7			
MW-B	**1,1,2,2-Tetrachloroethane**	**12/05/2007**	**0.2**	**ug/l**	**0.16**	**3.0**		**0.18**	**0.02**	**LFG**
MW-B	Acetone	12/05/2007	2.8	ug/l	1.21	100.0	700			
MW-B	Arsenic	12/05/2007	6.8	ug/l	0.47	10.0	50			
MW-B	Barium	12/05/2007	147	ug/l	0.04	100.0	2000			
MW-B	Benzene	12/05/2007	0.5	ug/l	0.16	1.0	1			
MW-B	Beryllium	12/05/2007	0.1	ug/l	0.08	1.0		2		
MW-B	Chlorobenzene	12/05/2007	1.2	ug/l	0.13	3.0	50			
MW-B	Chloroethane	12/05/2007	0.4	ug/l	0.29	10.0	2800			
MW-B	Chromium	12/05/2007	0.7	ug/l	0.24	10.0	50			
MW-B	Cis-1,2-Dichloroethene	12/05/2007	10.4	ug/l	0.14	5.0	70			
MW-B	**Cobalt**	**12/05/2007**	**118**	**ug/l**	**0.41**	**10.0**		**70**	**48**	**Natural**
MW-B	Copper	12/05/2007	1.4	ug/l	0.20	10.0	1000			
MW-B	Lead	12/05/2007	0.4	ug/l	0.07	10.0	15			
MW-B	Nickel	12/05/2007	10.4	ug/l	0.66	50.0	100			
MW-B	**Tetrachloroethene**	**12/05/2007**	**1.4**	**ug/l**	**0.16**	**1.0**	**0.7**		**0.7**	**LFG**
MW-B	Toluene	12/05/2007	0.2	ug/l	0.13	1.0	1000			
MW-B	trans-1,2-Dichloroethene	12/05/2007	0.5	ug/l	0.13	5.0	100			
MW-B	**Trichloroethene**	**12/05/2007**	**8.1**	**ug/l**	**0.13**	**1.0**	**2.8**		**5.3**	**LFG**
MW-B	Vanadium	12/05/2007	2.6	ug/l	0.42	25.0		3.5		
MW-B	**Vinyl Chloride**	**12/05/2007**	**10.6**	**ug/l**	**0.34**	**1.0**	**0.015**		**10.585**	**LFG**
MW-B	Xylenes	12/05/2007	0.9	ug/l	0.48	5.0	530			
MW-B	Zinc	12/05/2007	7.4	ug/l	0.20	10.0	1050			
MW-C	Antimony	12/05/2007	0.4	ug/l	0.05	6.0		6		
MW-C	Barium	12/05/2007	77.9	ug/l	0.04	100.0	2000			
MW-C	Beryllium	12/05/2007	1	ug/l	0.08	1.0		2		
MW-C	Cadmium	12/05/2007	0.1	ug/l	0.06	1.0	1.75			

Well ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [4]	SWSL [2]	NCGW2L [3]	GWP[5]	Exceedance	Preliminary Cause
MW-C	Cobalt	12/05/2007	6.4	ug/l	0.41	10.0		70		
MW-C	Copper	12/05/2007	0.4	ug/l	0.20	10.0	1000			
MW-C	Nickel	12/05/2007	4.8	ug/l	0.66	50.0	100			
MW-C	Vanadium	12/05/2007	0.7	ug/l	0.42	25.0		3.5		
MW-C	Zinc	12/05/2007	16	ug/l	0.20	10.0	1050			
MW-D	1,1-Dichloroethane	12/05/2007	0.2	ug/l	0.16	5.0	70			
MW-D	1,4-Dichlorobenzene	12/05/2007	0.3	ug/l	0.21	1.0	1.4			
MW-D	Antimony	12/05/2007	0.1	ug/l	0.05	6.0		6		
MW-D	Arsenic	12/05/2007	1.9	ug/l	0.47	10.0	50			
MW-D	Barium	12/05/2007	196	ug/l	0.04	100.0	2000			
MW-D	Benzene	12/05/2007	0.3	ug/l	0.16	1.0	1			
MW-D	Beryllium	12/05/2007	0.8	ug/l	0.08	1.0		2		
MW-D	Cadmium	12/05/2007	0.3	ug/l	0.06	1.0	1.75			
MW-D	Chlorobenzene	12/05/2007	0.2	ug/l	0.13	3.0	50			
MW-D	Chromium	12/05/2007	9.8	ug/l	0.24	10.0	50			
MW-D	Cis-1,2-Dichloroethene	12/05/2007	1.2	ug/l	0.14	5.0	70			
MW-D	Cobalt	12/05/2007	23	ug/l	0.41	10.0		70		
MW-D	Copper	12/05/2007	5.2	ug/l	0.20	10.0	1000			
MW-D	Lead	12/05/2007	2.6	ug/l	0.07	10.0	15			
MW-D	Nickel	12/05/2007	9.5	ug/l	0.66	50.0	100			
MW-D	Selenium	12/05/2007	2.2	ug/l	0.35	10.0	50			
MW-D	Tetrachloroethene	12/05/2007	0.2	ug/l	0.16	1.0	0.7			
MW-D	Trichloroethene	12/05/2007	0.2	ug/l	0.13	1.0	2.8			
MW-D	**Vanadium**	**12/05/2007**	**15.8**	**ug/l**	**0.42**	**25.0**		**3.5**	**12.3**	**Natural**
MW-D	**Vinyl Chloride**	**12/05/2007**	**0.5**	**ug/l**	**0.34**	**1.0**	**0.015**		**0.485**	**Leachate &/or LFG**
MW-D	Zinc	12/05/2007	48	ug/l	0.20	10.0	1050			
MW-E	1,1-Dichloroethane	12/05/2007	1	ug/l	0.16	5.0	70			
MW-E	**1,4-Dichlorobenzene**	**12/05/2007**	**2.7**	**ug/l**	**0.21**	**1.0**	**1.4**		**1.3**	**Leachate &/or LFG**
MW-E	Acetone	12/05/2007	1.7	ug/l	1.21	100.0	700			
MW-E	Antimony	12/05/2007	0.1	ug/l	0.05	6.0		6		
MW-E	Arsenic	12/05/2007	11	ug/l	0.47	10.0	50			
MW-E	Barium	12/05/2007	143	ug/l	0.04	100.0	2000			
MW-E	**Benzene**	**12/05/2007**	**2.2**	**ug/l**	**0.16**	**1.0**	**1**		**1.2**	**Leachate &/or LFG**
MW-E	Cadmium	12/05/2007	0.1	ug/l	0.06	1.0	1.75			
MW-E	Chlorobenzene	12/05/2007	16.8	ug/l	0.13	3.0	50			
MW-E	Chloroethane	12/05/2007	1.2	ug/l	0.29	10.0	2800			
MW-E	Cis-1,2-Dichloroethene	12/05/2007	0.6	ug/l	0.14	5.0	70			
MW-E	**Cobalt**	**12/05/2007**	**81**	**ug/l**	**0.41**	**10.0**		**70**	**11**	**Natural**
MW-E	Copper	12/05/2007	2.8	ug/l	0.20	10.0	1000			
MW-E	Lead	12/05/2007	0.4	ug/l	0.07	10.0	15			
MW-E	Nickel	12/05/2007	4.4	ug/l	0.66	50.0	100			
MW-E	Toluene	12/05/2007	0.3	ug/l	0.13	1.0	1000			
MW-E	Vanadium	12/05/2007	2	ug/l	0.42	25.0		3.5		
MW-E	**Vinyl Chloride**	**12/05/2007**	**3.1**	**ug/l**	**0.34**	**1.0**	**0.015**		**3.085**	**Leachate &/or LFG**
MW-E	Zinc	12/05/2007	11	ug/l	0.20	10.0	1050			
MW-F	1,1-Dichloroethane	12/05/2007	4.7	ug/l	0.16	5.0	70			
MW-F	1,2-Dichlorobenzene	12/05/2007	0.2	ug/l	0.13	5.0	620			
MW-F	**1,2-Dichloroethane**	**12/05/2007**	**0.5**	**ug/l**	**0.12**	**1.0**	**0.38**		**0.12**	**Leachate &/or LFG**
MW-F	**1,4-Dichlorobenzene**	**12/05/2007**	**3.9**	**ug/l**	**0.21**	**1.0**	**1.4**		**2.5**	**Leachate &/or LFG**
MW-F	Antimony	12/05/2007	0.3	ug/l	0.05	6.0		6		
MW-F	Arsenic	12/05/2007	5.6	ug/l	0.47	10.0	50			
MW-F	Barium	12/05/2007	545	ug/l	0.04	100.0	2000			
MW-F	**Benzene**	**12/05/2007**	**3.4**	**ug/l**	**0.16**	**1.0**	**1**		**2.4**	**Leachate &/or LFG**
MW-F	Beryllium	12/05/2007	1	ug/l	0.08	1.0		2		

Well ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [4]	SWSL [2]	NCGW2L [3]	GWP[5]	Exceedance	Preliminary Cause
MW-F	Cadmium	12/05/2007	1	ug/l	0.06	1.0	1.75			
MW-F	Chlorobenzene	12/05/2007	16.5	ug/l	0.13	3.0	50			
MW-F	Chloroethane	12/05/2007	1	ug/l	0.29	10.0	2800			
MW-F	Chromium	12/05/2007	3.5	ug/l	0.24	10.0	50			
MW-F	Cis-1,2-Dichloroethene	12/05/2007	49.4	ug/l	0.14	5.0	70			
MW-F	**Cobalt**	**12/05/2007**	**189**	**ug/l**	**0.41**	**10.0**		**70**	**119**	**Natural**
MW-F	Copper	12/05/2007	3.1	ug/l	0.20	10.0	1000			
MW-F	Lead	12/05/2007	3.7	ug/l	0.07	10.0	15			
MW-F	Mercury	12/05/2007	0.36	ug/l	0.13	0.20	1.1			
MW-F	Nickel	12/05/2007	14.1	ug/l	0.66	50.0	100			
MW-F	Selenium	12/05/2007	1.3	ug/l	0.35	10.0	50			
MW-F	**Tetrachloroethene**	**12/05/2007**	**0.9**	**ug/l**	**0.16**	**1.0**	**0.7**		**0.2**	
MW-F	**Thallium**	**12/05/2007**	**1.3**	**ug/l**	**0.07**	**5.0**		**0.28**	**1.02**	**Natural**
MW-F	Toluene	12/05/2007	0.4	ug/l	0.13	1.0	1000			
MW-F	trans-1,2-Dichloroethene	12/05/2007	0.5	ug/l	0.13	5.0	100			
MW-F	Trichloroethene	12/05/2007	1.5	ug/l	0.13	1.0	2.8			
MW-F	**Vanadium**	**12/05/2007**	**8.8**	**ug/l**	**0.42**	**25.0**		**3.5**	**5.3**	**Natural**
MW-F	**Vinyl Chloride**	**12/05/2007**	**10.3**	**ug/l**	**0.34**	**1.0**	**0.015**		**10.285**	**Leachate &/or LFG**
MW-F	Zinc	12/05/2007	375	ug/l	0.20	10.0	1050			
MW-G	2-Butanone	12/05/2007	1.6	ug/l	0.85	100.0	4200			
MW-G	Acetone	12/05/2007	84.1	ug/l	1.21	100.0	700			
MW-G	Antimony	12/05/2007	0.1	ug/l	0.05	6.0		6		
MW-G	Arsenic	12/05/2007	0.9	ug/l	0.47	10.0	50			
MW-G	Barium	12/05/2007	117	ug/l	0.04	100.0	2000			
MW-G	Beryllium	12/05/2007	0.1	ug/l	0.08	1.0		2		
MW-G	Cadmium	12/05/2007	0.1	ug/l	0.06	1.0	1.75			
MW-G	Cobalt	12/05/2007	5.2	ug/l	0.41	10.0		70		
MW-G	Lead	12/05/2007	0.2	ug/l	0.07	10.0	15			
MW-G	Nickel	12/05/2007	8.2	ug/l	0.66	50.0	100			
MW-G	Selenium	12/05/2007	0.8	ug/l	0.35	10.0	50			
MW-G	Tetrachloroethene	12/05/2007	0.4	ug/l	0.16	1.0	0.7			
MW-G	Trichloroethene	12/05/2007	0.2	ug/l	0.13	1.0	2.8			
MW-G	Vanadium	12/05/2007	1.4	ug/l	0.42	25.0		3.5		
MW-G	**Vinyl Chloride**	**12/05/2007**	**0.8**	**ug/l**	**0.34**	**1.0**	**0.015**		**0.785**	**Leachate &/or LFG**
MW-G	Zinc	12/05/2007	31	ug/l	0.20	10.0	1050			
MW-H	1,1-Dichloroethane	12/05/2007	2.6	ug/l	0.16	5.0	70			
MW-H	1,2-Dichlorobenzene	12/05/2007	0.3	ug/l	0.13	5.0	620			
MW-H	1,2-Dichloroethane	12/05/2007	0.2	ug/l	0.12	1.0	0.38			
MW-H	**1,4-Dichlorobenzene**	**12/05/2007**	**4**	**ug/l**	**0.21**	**1.0**	**1.4**		**2.6**	**Leachate &/or LFG**
MW-H	Acetone	12/05/2007	2.6	ug/l	1.21	100.0	700			
MW-H	Antimony	12/05/2007	0.1	ug/l	0.05	6.0		6		
MW-H	Arsenic	12/05/2007	2.5	ug/l	0.47	10.0	50			
MW-H	**Barium**	**12/05/2007**	**2906**	**ug/l**	**0.04**	**100.0**	**2000**		**906**	**Natural**
MW-H	**Benzene**	**12/05/2007**	**2.6**	**ug/l**	**0.16**	**1.0**	**1**		**1.6**	
MW-H	Chlorobenzene	12/05/2007	14.1	ug/l	0.13	3.0	50			
MW-H	Chloroethane	12/05/2007	1.2	ug/l	0.29	10.0	2800			
MW-H	Cis-1,2-Dichloroethene	12/05/2007	21.7	ug/l	0.14	5.0	70			
MW-H	**Cobalt**	**12/05/2007**	**485**	**ug/l**	**0.41**	**10.0**		**70**	**415**	**Natural**
MW-H	Nickel	12/05/2007	54	ug/l	0.66	50.0	100			
MW-H	Selenium	12/05/2007	0.6	ug/l	0.35	10.0	50			
MW-H	**Thallium**	**12/05/2007**	**0.7**	**ug/l**	**0.07**	**5.0**		**0.28**	**0.42**	**Natural**
MW-H	Toluene	12/05/2007	0.2	ug/l	0.13	1.0	1000			
MW-H	trans-1,2-Dichloroethene	12/05/2007	0.3	ug/l	0.13	5.0	100			
MW-H	Trichloroethene	12/05/2007	0.5	ug/l	0.13	1.0	2.8			

Well ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [4]	SWSL [2]	NCGW2L [3]	GWP[5]	Exceedance	Preliminary Cause
MW-H	**Vinyl Chloride**	**12/05/2007**	**6.8**	**ug/l**	**0.34**	**1.0**	**0.015**		**6.785**	**Leachate &/or LFG**
MW-H	Zinc	12/05/2007	2	ug/l	0.20	10.0	1050			
MW-I	1,1-Dichloroethane	12/05/2007	1.8	ug/l	0.16	5.0	70			
MW-I	1,1,2-Trichloroethane	12/05/2007	0.2	ug/l	0.20	1.0		0.6		
MW-I	1,2-Dichlorobenzene	12/05/2007	0.2	ug/l	0.13	5.0	620			
MW-I	1,2-Dichloropropane	12/05/2007	0.2	ug/l	0.17	1.0	0.51			
MW-I	**1,4-Dichlorobenzene**	**12/05/2007**	**4.5**	**ug/l**	**0.21**	**1.0**	**1.4**		**3.1**	**Leachate &/or LFG**
MW-I	Arsenic	12/05/2007	3.2	ug/l	0.47	10.0	50			
MW-I	Barium	12/05/2007	194	ug/l	0.04	100.0	2000			
MW-I	**Benzene**	**12/05/2007**	**3.3**	**ug/l**	**0.16**	**1.0**	**1**		**2.3**	**Leachate &/or LFG**
MW-I	Beryllium	12/05/2007	0.1	ug/l	0.08	1.0		2		
MW-I	Chlorobenzene	12/05/2007	19.6	ug/l	0.13	3.0	50			
MW-I	Chloroethane	12/05/2007	0.5	ug/l	0.29	10.0	2800			
MW-I	Cis-1,2-Dichloroethene	12/05/2007	9.6	ug/l	0.14	5.0	70			
MW-I	Cobalt	12/05/2007	43	ug/l	0.41	10.0		70		
MW-I	Nickel	12/05/2007	6.1	ug/l	0.66	50.0	100			
MW-I	Selenium	12/05/2007	0.6	ug/l	0.35	10.0	50			
MW-I	Tetrachloroethene	12/05/2007	0.3	ug/l	0.16	1.0	0.7			
MW-I	trans-1,2-Dichloroethene	12/05/2007	0.2	ug/l	0.13	5.0	100			
MW-I	Trichloroethene	12/05/2007	0.4	ug/l	0.13	1.0	2.8			
MW-I	Vanadium	12/05/2007	1	ug/l	0.42	25.0		3.5		
MW-I	**Vinyl Chloride**	**12/05/2007**	**16.3**	**ug/l**	**0.34**	**1.0**	**0.015**		**16.285**	**Leachate &/or LFG**
MW-I	Zinc	12/05/2007	15	ug/l	0.20	10.0	1050			
MW-J	1,1-Dichloroethane	12/05/2007	0.5	ug/l	0.16	5.0	70			
MW-J	Arsenic	12/05/2007	0.5	ug/l	0.47	10.0	50			
MW-J	Barium	12/05/2007	75	ug/l	0.04	100.0	2000			
MW-J	Benzene	12/05/2007	0.5	ug/l	0.16	1.0	1			
MW-J	Beryllium	12/05/2007	0.1	ug/l	0.08	1.0		2		
MW-J	Cadmium	12/05/2007	0.2	ug/l	0.06	1.0	1.75			
MW-J	Chlorobenzene	12/05/2007	0.6	ug/l	0.13	3.0	50			
MW-J	Cis-1,2-Dichloroethene	12/05/2007	3.9	ug/l	0.14	5.0	70			
MW-J	Cobalt	12/05/2007	8.8	ug/l	0.41	10.0		70		
MW-J	Lead	12/05/2007	0.1	ug/l	0.07	10.0	15			
MW-J	Methylene Chloride	12/05/2007	0.2	ug/l	0.14	1.0	4.6			
MW-J	Nickel	12/05/2007	4	ug/l	0.66	50.0	100			
MW-J	Selenium	12/05/2007	0.5	ug/l	0.35	10.0	50			
MW-J	**Tetrachloroethene**	**12/05/2007**	**1.1**	**ug/l**	**0.16**	**1.0**	**0.7**		**0.4**	**Leachate &/or LFG**
MW-J	Trichloroethene	12/05/2007	0.5	ug/l	0.13	1.0	2.8			
MW-J	Vanadium	12/05/2007	1.2	ug/l	0.42	25.0		3.5		
MW-J	**Vinyl Chloride**	**12/05/2007**	**2.9**	**ug/l**	**0.34**	**1.0**	**0.015**		**2.885**	**Leachate &/or LFG**
MW-J	Zinc	12/05/2007	12	ug/l	0.20	10.0	1050			
MW-K	1,1-Dichloroethane	12/05/2007	0.4	ug/l	0.16	5.0	70			
MW-K	Antimony	12/05/2007	0.2	ug/l	0.05	6.0		6		
MW-K	Arsenic	12/05/2007	1.5	ug/l	0.47	10.0	50			
MW-K	Barium	12/05/2007	106	ug/l	0.04	100.0	2000			
MW-K	Benzene	12/05/2007	0.4	ug/l	0.16	1.0	1			
MW-K	Beryllium	12/05/2007	0.8	ug/l	0.08	1.0		2		
MW-K	Cadmium	12/05/2007	0.2	ug/l	0.06	1.0	1.75			
MW-K	Chlorobenzene	12/05/2007	0.2	ug/l	0.13	3.0	50			
MW-K	Chloroform	12/05/2007	0.4	ug/l	0.13	5.0	70			
MW-K	Chromium	12/05/2007	14	ug/l	0.24	10.0	50			
MW-K	Cis-1,2-Dichloroethene	12/05/2007	2.1	ug/l	0.14	5.0	70			
MW-K	Cobalt	12/05/2007	2.5	ug/l	0.41	10.0		70		
MW-K	Copper	12/05/2007	2.9	ug/l	0.20	10.0	1000			

Well ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [4]	SWSL [2]	NCGW2L [3]	GWP[5]	Exceedance	Preliminary Cause
MW-K	Lead	12/05/2007	4	ug/l	0.07	10.0	15			
MW-K	Mercury	12/05/2007	0.08	ug/l	0.04	0.20	1.1			
MW-K	Methylene Chloride	12/05/2007	0.2	ug/l	0.14	1.0	4.6			
MW-K	Nickel	12/05/2007	5.1	ug/l	0.66	50.0	100			
MW-K	Selenium	12/05/2007	0.4	ug/l	0.35	10.0	50			
MW-K	**Tetrachloroethene**	**12/05/2007**	**0.9**	**ug/l**	**0.16**	**1.0**	**0.7**		**0.2**	**Leachate &/or LFG**
MW-K	Thallium	12/05/2007	0.1	ug/l	0.07	5.0		0.28		
MW-K	Trichloroethene	12/05/2007	0.5	ug/l	0.13	1.0	2.8			
MW-K	**Vanadium**	**12/05/2007**	**18.3**	**ug/l**	**0.42**	**25.0**		**3.5**	**14.8**	**Natural**
MW-K	**Vinyl Chloride**	**12/05/2007**	**2.8**	**ug/l**	**0.34**	**1.0**	**0.015**		**2.785**	**Leachate &/or LFG**
MW-K	Zinc	12/05/2007	28	ug/l	0.20	10.0	1050			
MW-L	1,1-Dichloroethane	12/05/2007	0.2	ug/l	0.16	5.0	70			
MW-L	1,4-Dichlorobenzene	12/05/2007	0.4	ug/l	0.21	1.0	1.4			
MW-L	Antimony	12/05/2007	0.1	ug/l	0.05	6.0		6		
MW-L	Arsenic	12/05/2007	2.1	ug/l	0.47	10.0	50			
MW-L	Barium	12/05/2007	105	ug/l	0.04	100.0	2000			
MW-L	Beryllium	12/05/2007	0.4	ug/l	0.08	1.0		2		
MW-L	**Cadmium**	**12/05/2007**	**3**	**ug/l**	**0.06**	**1.0**	**1.75**		**1.25**	**Natural**
MW-L	Chlorobenzene	12/05/2007	0.4	ug/l	0.13	3.0	50			
MW-L	Chloroform	12/05/2007	0.4	ug/l	0.13	5.0	70			
MW-L	Chromium	12/05/2007	4.9	ug/l	0.24	10.0	50			
MW-L	Cis-1,2-Dichloroethene	12/05/2007	2	ug/l	0.14	5.0	70			
MW-L	Cobalt	12/05/2007	67	ug/l	0.41	10.0		70		
MW-L	Copper	12/05/2007	4.6	ug/l	0.20	10.0	1000			
MW-L	Lead	12/05/2007	3.5	ug/l	0.07	10.0	15			
MW-L	Mercury	12/05/2007	0.62	ug/l	0.04	0.20	1.1			
MW-L	Nickel	12/05/2007	7	ug/l	0.66	50.0	100			
MW-L	Selenium	12/05/2007	0.7	ug/l	0.35	10.0	50			
MW-L	**Thallium**	**12/05/2007**	**0.3**	**ug/l**	**0.07**	**5.0**		**0.28**	**0.02**	**Natural**
MW-L	Trichloroethene	12/05/2007	0.3	ug/l	0.13	1.0	2.8			
MW-L	**Vanadium**	**12/05/2007**	**10.7**	**ug/l**	**0.42**	**25.0**		**3.5**	**7.2**	**Natural**
MW-L	**Vinyl Chloride**	**12/05/2007**	**1.3**	**ug/l**	**0.34**	**1.0**	**0.015**		**1.285**	
MW-L	Zinc	12/05/2007	300	ug/l	0.20	10.0	1050			
MW-M	Antimony	12/05/2007	0.1	ug/l	0.05	6.0		6		
MW-M	Barium	12/05/2007	46.4	ug/l	0.04	100.0	2000			
MW-M	Beryllium	12/05/2007	0.2	ug/l	0.08	1.0		2		
MW-M	Cadmium	12/05/2007	0.1	ug/l	0.06	1.0	1.75			
MW-M	Chromium	12/05/2007	2.4	ug/l	0.24	10.0	50			
MW-M	Copper	12/05/2007	0.5	ug/l	0.20	10.0	1000			
MW-M	Lead	12/05/2007	0.9	ug/l	0.07	10.0	15			
MW-M	Nickel	12/05/2007	0.9	ug/l	0.66	50.0	100			
MW-M	Selenium	12/05/2007	0.8	ug/l	0.35	10.0	50			
MW-M	Tetrachloroethene	12/05/2007	0.3	ug/l	0.16	1.0	0.7			
MW-M	Thallium	12/05/2007	0.1	ug/l	0.07	5.0		0.28		
MW-M	Zinc	12/05/2007	3	ug/l	0.20	10.0	1050			
SW-1	Antimony	12/05/2007	0.3	ug/l	0.05	6.0		6		
SW-1	Arsenic	12/05/2007	0.5	ug/l	0.47	10.0	50			
SW-1	Barium	12/05/2007	77.7	ug/l	0.04	100.0	2000			
SW-1	Beryllium	12/05/2007	0.2	ug/l	0.08	1.0		2		
SW-1	Cadmium	12/05/2007	0.4	ug/l	0.06	1.0	1.75			
SW-1	Chromium	12/05/2007	0.7	ug/l	0.24	10.0	50			
SW-1	Cobalt	12/05/2007	20	ug/l	0.41	10.0		70		
SW-1	Copper	12/05/2007	2	ug/l	0.20	10.0	1000			
SW-1	Lead	12/05/2007	1.1	ug/l	0.07	10.0	15			

Well ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [4]	SWSL [2]	NCGW2L [3]	GWP[5]	Exceedance	Preliminary Cause
SW-1	Nickel	12/05/2007	3	ug/l	0.66	50.0	100			
SW-1	Vanadium	12/05/2007	2.7	ug/l	0.42	25.0		3.5		
SW-1	Zinc	12/05/2007	39	ug/l	0.20	10.0	1050			
SW-2	Acetone	12/05/2007	2.1	ug/l	1.21	100.0	700			
SW-2	Antimony	12/05/2007	0.1	ug/l	0.05	6.0		6		
SW-2	Arsenic	12/05/2007	0.6	ug/l	0.47	10.0	50			
SW-2	Barium	12/05/2007	55.1	ug/l	0.04	100.0	2000			
SW-2	Cadmium	12/05/2007	0.4	ug/l	0.06	1.0	1.75			
SW-2	Cobalt	12/05/2007	4.1	ug/l	0.41	10.0		70		
SW-2	Copper	12/05/2007	0.8	ug/l	0.20	10.0	1000			
SW-2	Lead	12/05/2007	0.4	ug/l	0.07	10.0	15			
SW-2	Nickel	12/05/2007	1.1	ug/l	0.66	50.0	100			
SW-2	Vanadium	12/05/2007	1.8	ug/l	0.42	25.0		3.5		
SW-2	Zinc	12/05/2007	5.2	ug/l	0.20	10.0	1050			
SW-4	Acetone	12/05/2007	2.3	ug/l	1.21	100.0	700			
SW-4	Antimony	12/05/2007	0.1	ug/l	0.05	6.0		6		
SW-4	Arsenic	12/05/2007	0.7	ug/l	0.47	10.0	50			
SW-4	Barium	12/05/2007	375	ug/l	0.04	100.0	2000			
SW-4	Cadmium	12/05/2007	0.2	ug/l	0.06	1.0	1.75			
SW-4	Chromium	12/05/2007	1.2	ug/l	0.24	10.0	50			
SW-4	Cobalt	12/05/2007	12	ug/l	0.41	10.0		70		
SW-4	Copper	12/05/2007	2.3	ug/l	0.20	10.0	1000			
SW-4	Lead	12/05/2007	3.7	ug/l	0.07	10.0	15			
SW-4	Nickel	12/05/2007	3.4	ug/l	0.66	50.0	100			
SW-4	Selenium	12/05/2007	1.6	ug/l	0.35	10.0	50			
SW-4	Toluene	12/05/2007	0.2	ug/l	0.13	1.0	1000			
SW-4	**Vanadium**	**12/05/2007**	**3.7**	**ug/l**	**0.42**	**25.0**		**3.5**	**0.2**	**Natural**
SW-4	Zinc	12/05/2007	11	ug/l	0.20	10.0	1050			
EB	Barium	12/05/2007	0.1	ug/l	0.04	100.0	2000			
EB	Copper	12/05/2007	0.7	ug/l	0.20	10.0	1000			
EB	Thallium	12/05/2007	0.1	ug/l	0.07	5.0		0.28		
EB	Vanadium	12/05/2007	0.6	ug/l	0.42	25.0		3.5		
EB	Zinc	12/05/2007	1.2	ug/l	0.20	10.0	1050			

[1] Table only contains detected constituents

[2] SWSL = Solid Waste Section Reporting Limit (Current as of Sampling Event)

[3] NCGW2L = North Carolina Ground Water 2L Standard

[4] MDL = Method Detection Limit

[4] GWP = Groundwater Protection Standard (Current as of Sampling Event)

Hydrologic Properties at Monitoring Well Locations
Hertford County Closed MSWLF

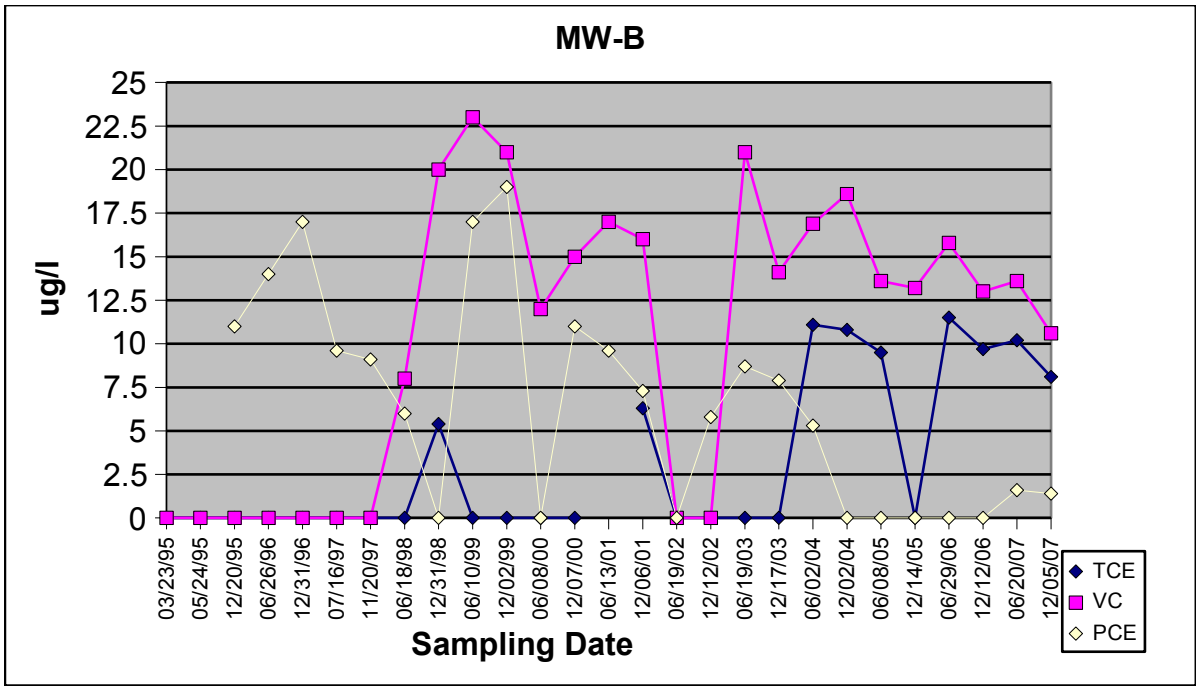
Monitoring Well	Hydraulic Conductivity (cm/sec)	Effective Porosity (%)	Hydraulic Gradient	Flow Rate (ft/yr)	Flow Direction	Water Table Depth (ft)	Water Table Elev. (ft)
MW-A	7.30E-04	20%	0.0079	30	N0W	26.01	24.24
MW-B	6.90E-04	20%	0.0028	10	N30W	24.82	24.95
MW-C	1.10E-04	20%	0.0014	1	N45W	20.82	24.76
MW-D	4.40E-04	20%	0.0119	27	N1W	27.91	20.4
MW-E	3.10E-03	20%	0.0033	53	N75W	27.37	20.49
MW-F	3.10E-03	20%	0.0085	136	N4W	31.17	18.32
MW-G	1.80E-03	20%	0.0021	20	N29W	24.82	25.28
MW-H	4.60E-03	20%	0.0078	186	N4W	27.95	17.51
MW-I	1.10E-03	20%	0.0028	16	N86W	30.32	17.68
MW-J	1.20E-03	20%	0.0024	15	N49W	27.71	18.55
MW-K	3.50E-03	20%	0.0010	18	N1E	29.26	19.55
MW-L	1.60E-04	20%	0.0027	2	N31E	25.26	21.15
MW-M	1.20E-03	20%	0.0001	1	N3W	23.81	23.96

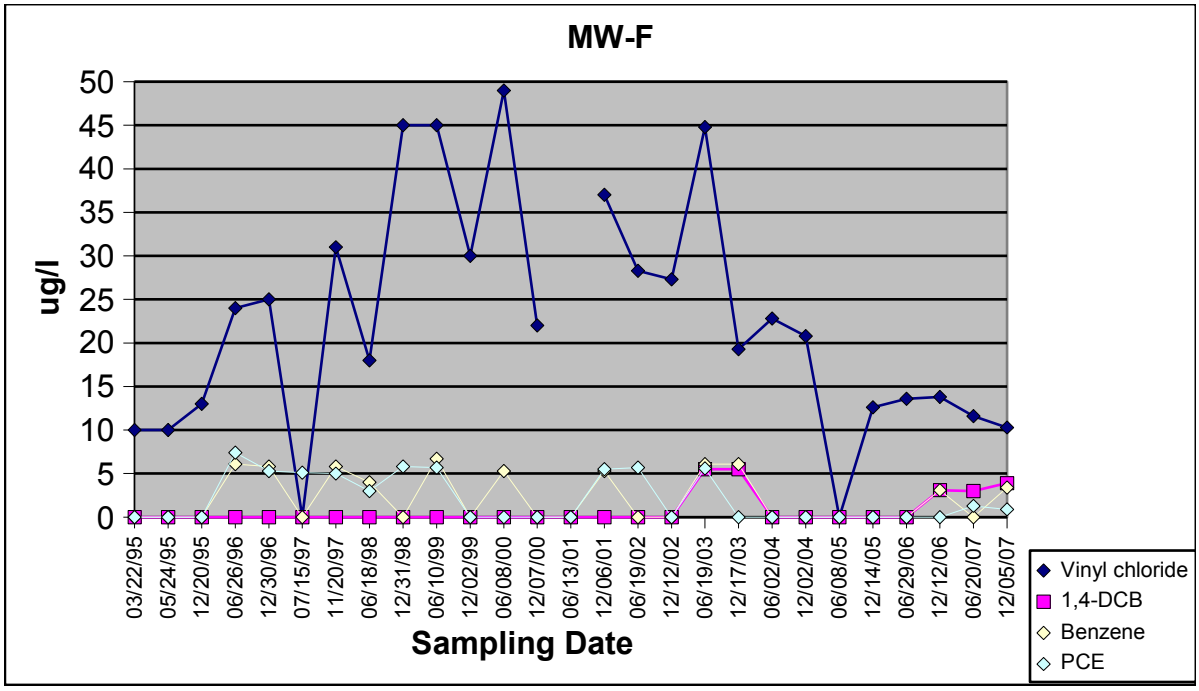
NOTE: Data for effective porosity & hydraulic conductivities obtained from GAI Consultants' Assessment Report (Feb. 1996)
Hydrologic Gradient taken from the December 5, 2007 sampling event.
Flow rate (Q) is defined by the equation:

$$Q = -\frac{K}{n_e} \cdot \frac{dh}{dl}$$

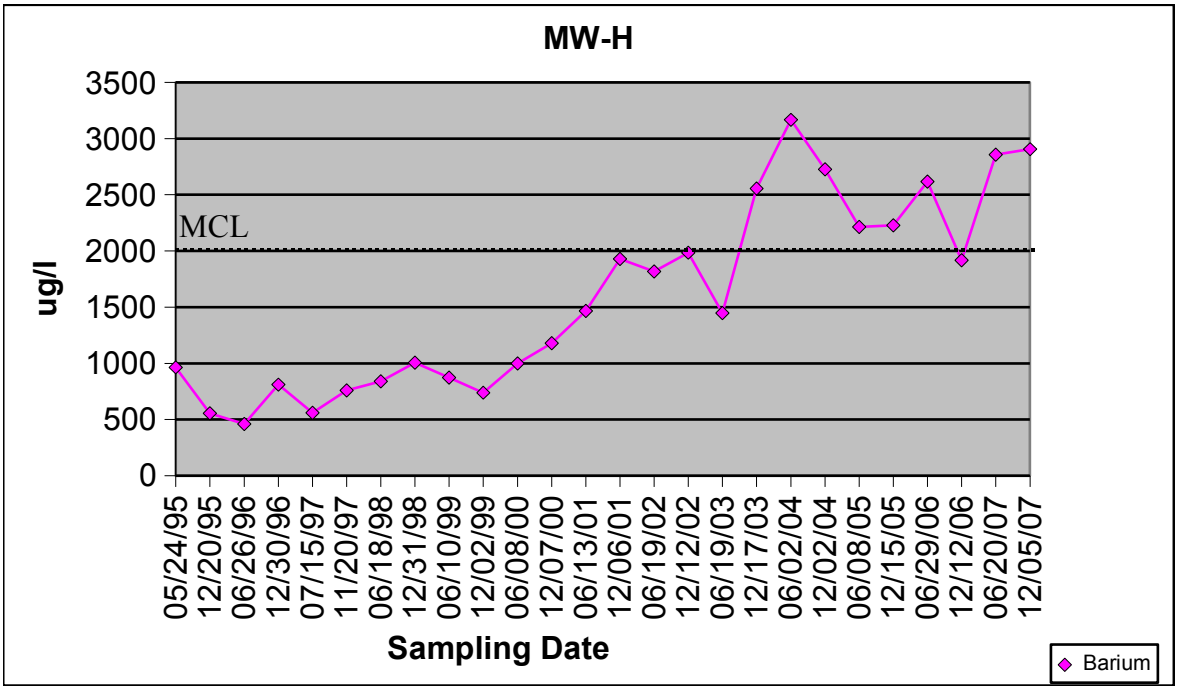
where
K = hydraulic conductivity
n_e = effective porosity
dh = head difference
dl = horizontal distance

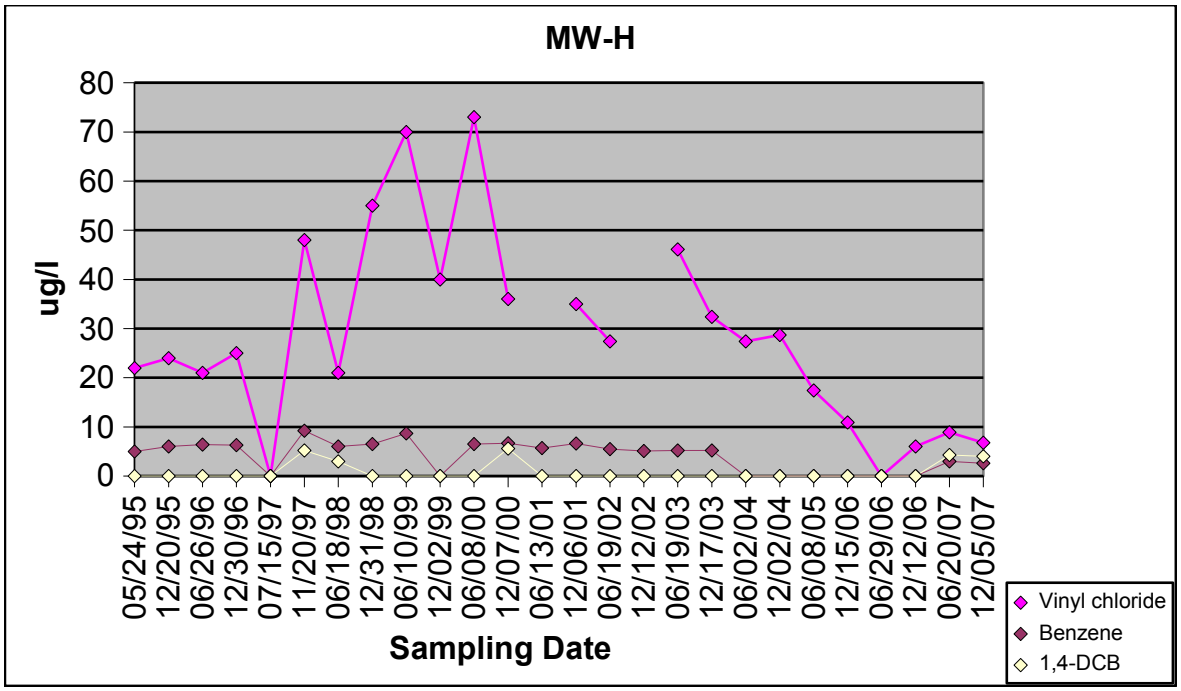
Time-Series Plot for VOC Exceedances
Hertford County Closed MSWLF



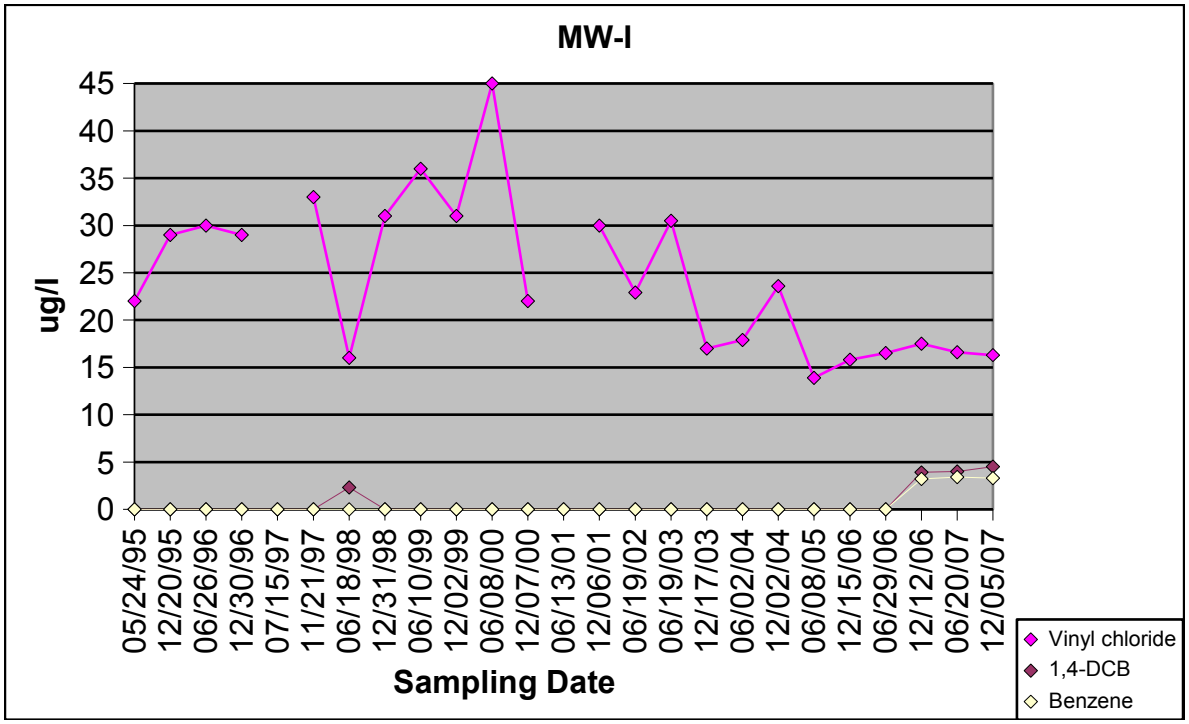


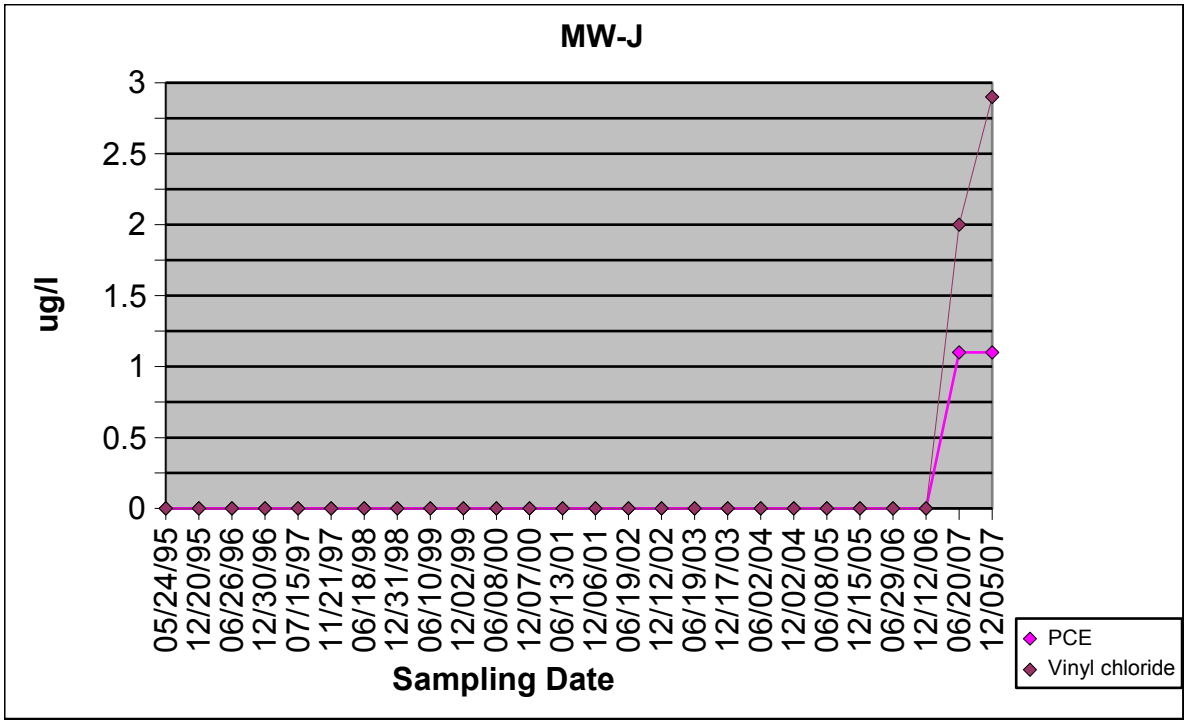
Time-Series Plot for Exceedances
Hertford County Closed MSWLF



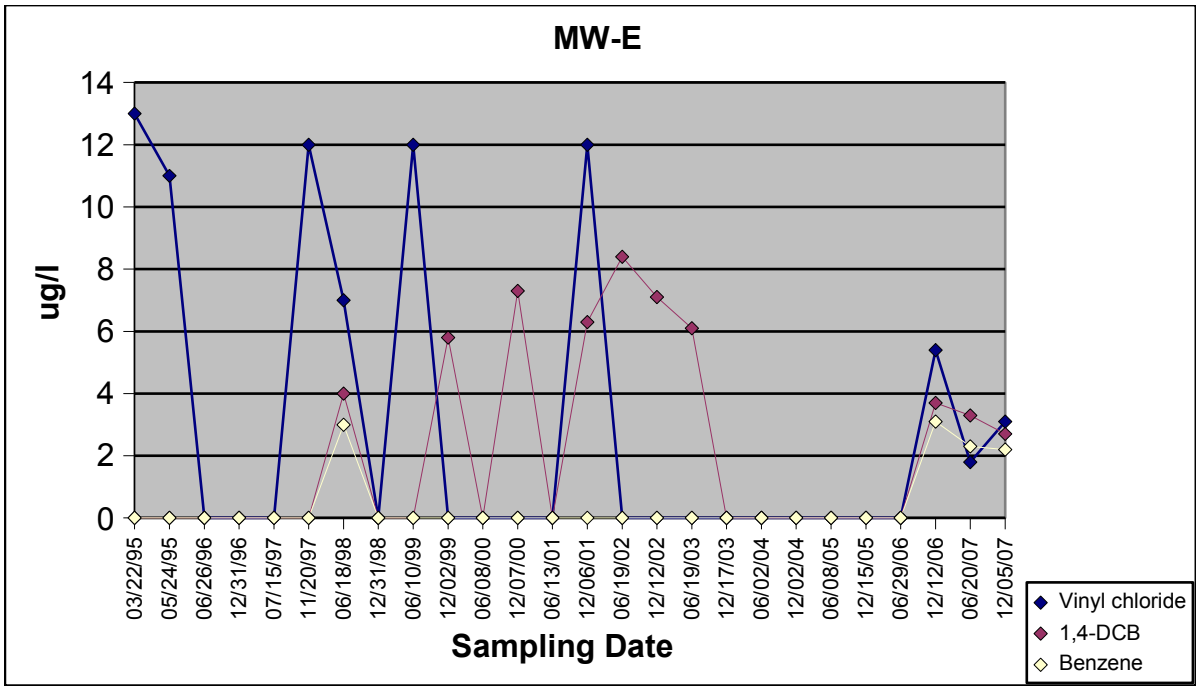


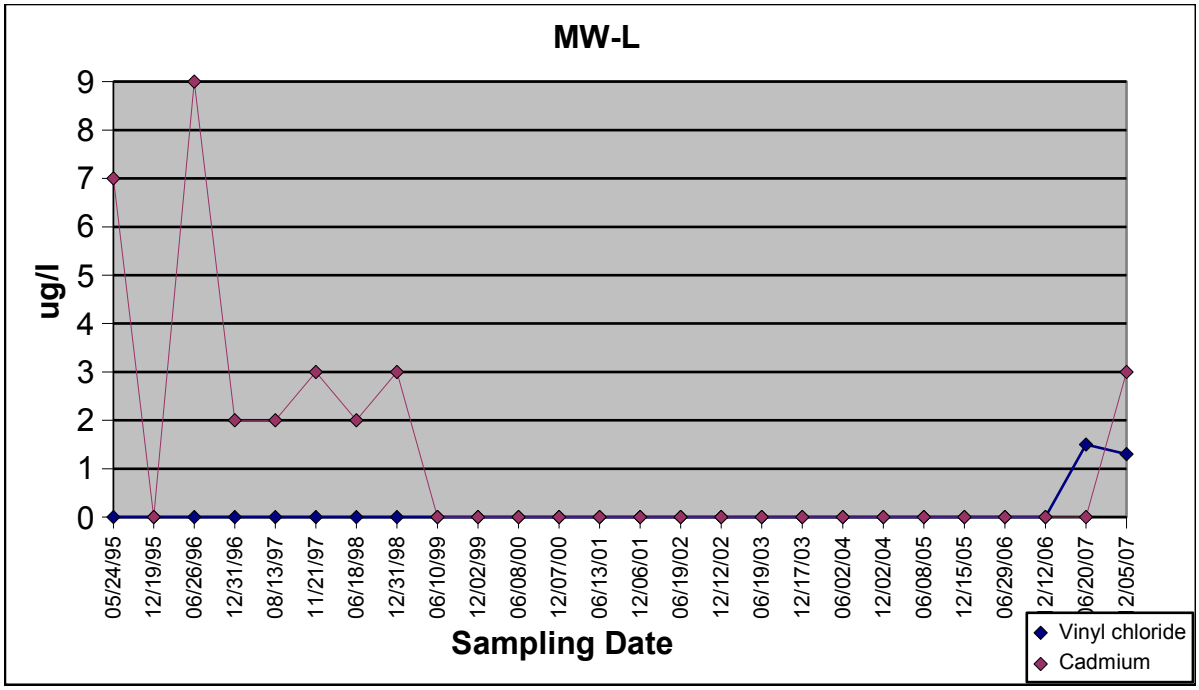
Time-Series Plot for VOC Exceedances
Hertford County Closed MSWLF



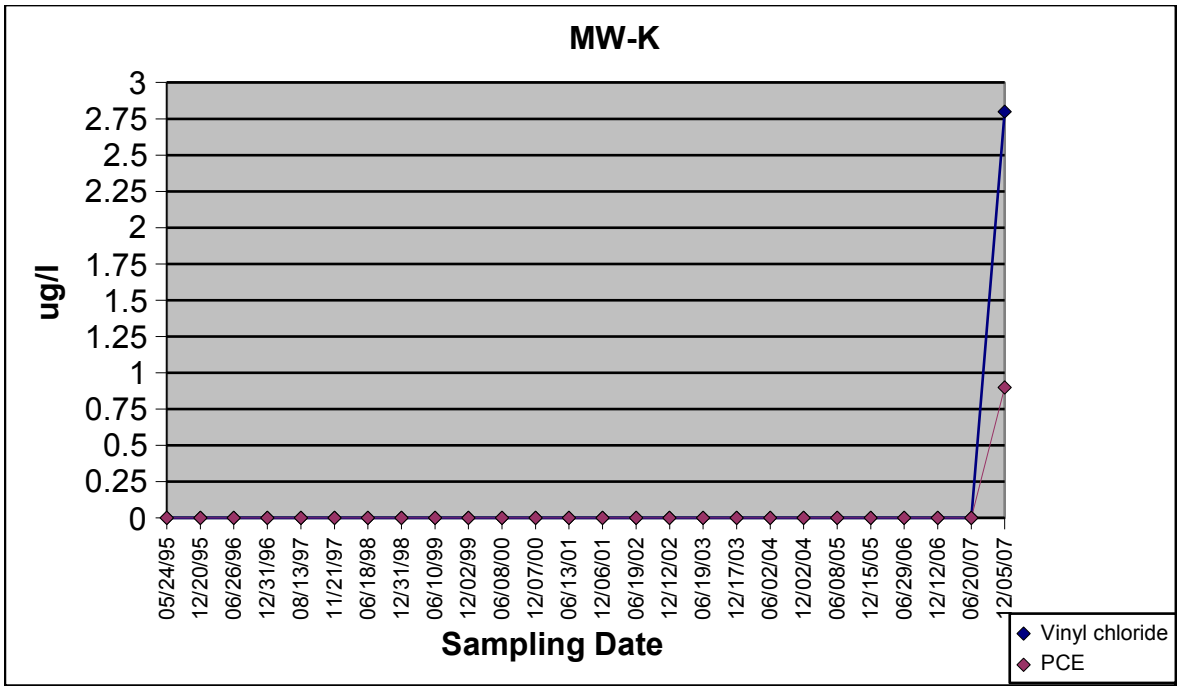


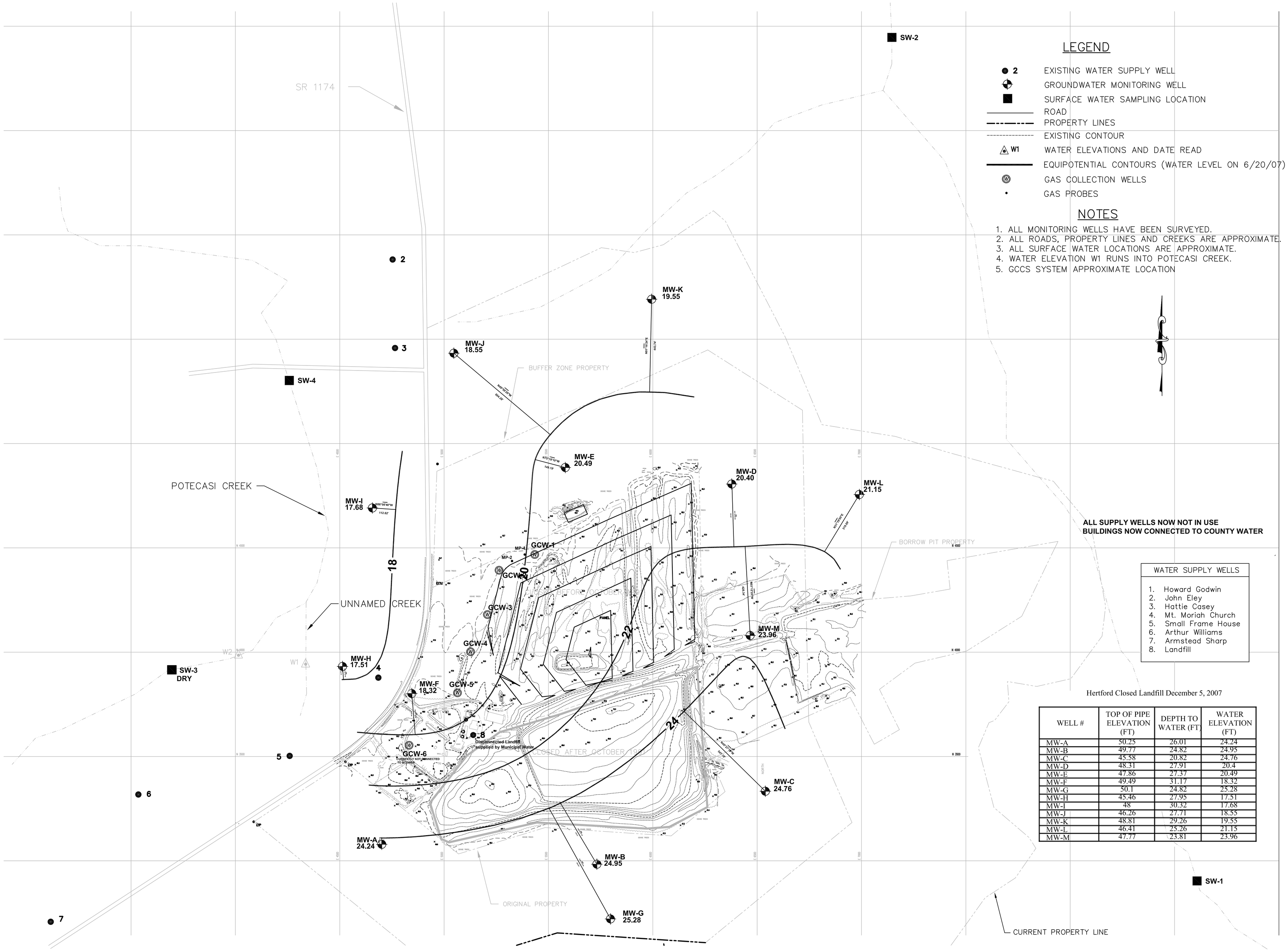
Time-Series Plot for VOC Exceedances
Hertford County Closed MSWLF





Time-Series Plot for VOC Exceedances
Hertford County Closed MSWLF





LEGEND

- ● 2 EXISTING WATER SUPPLY WELL
- GROUNDWATER MONITORING WELL
- SURFACE WATER SAMPLING LOCATION
- ROAD
- PROPERTY LINES
- EXISTING CONTOUR
- W1 WATER ELEVATIONS AND DATE READ
- EQUIPOTENTIAL CONTOURS (WATER LEVEL ON 6/20/07)
- GAS COLLECTION WELLS
- GAS PROBES

NOTES

1. ALL MONITORING WELLS HAVE BEEN SURVEYED.
2. ALL ROADS, PROPERTY LINES AND CREEKS ARE APPROXIMATE.
3. ALL SURFACE WATER LOCATIONS ARE APPROXIMATE.
4. WATER ELEVATION W1 RUNS INTO POTECASI CREEK.
5. GCCS SYSTEM APPROXIMATE LOCATION

ALL SUPPLY WELLS NOW NOT IN USE
BUILDINGS NOW CONNECTED TO COUNTY WATER

WATER SUPPLY WELLS
1. Howard Godwin
2. John Eley
3. Hattie Casey
4. Mt. Moriah Church
5. Small Frame House
6. Arthur Williams
7. Armstead Sharp
8. Landfill

Hertford Closed Landfill December 5, 2007

WELL #	TOP OF PIPE ELEVATION (FT)	DEPTH TO WATER (FT)	WATER ELEVATION (FT)
MW-A	50.25	26.01	24.24
MW-B	49.77	24.82	24.95
MW-C	45.58	20.82	24.76
MW-D	48.31	27.91	20.4
MW-E	47.86	27.37	20.49
MW-F	49.49	31.17	18.32
MW-G	50.1	24.82	25.28
MW-H	45.46	27.95	17.51
MW-I	48	30.32	17.68
MW-J	46.26	27.71	18.55
MW-K	48.81	29.26	19.55
MW-L	46.41	25.26	21.15
MW-M	47.77	23.81	23.96

Municipal Services Engineering Company, P.A.
P.O. BOX 97 GARNER, N.C. 27529 (919) 772-5393
P.O. BOX 349 BOONE, N.C. 27529 (704) 262-1767

MUNICIPAL SOLID WASTE LANDFILL FACILITY
HERTFORD COUNTY NORTH CAROLINA

DATE	BY	REV.	DESCRIPTION

SINGLE DAY POTENTIOMETRIC MAP
12/5/07

SCALE: 1" = 200'
DATE:
DRWN. BY: L. HAMPTON
CHKD. BY: W. SULLIVAN
PROJECT NUMBER G01013.0
DRAWING NO. –
SHEET NO. 1 OF 1

Laboratory Results

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 6025

HERTFORD COUNTY LANDFILL
C/O MUNICIPAL ENGINEERS
P.O. BOX 97
GARNER ,NC 27529

DATE COLLECTED: 12/05/07
DATE REPORTED : 12/28/07

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW-A	MW-B	MW-C	MW-D	MW-E	Analysis Date	Analyst	Method Code
PH (field measurement), Units			5.8	6.1	5.3	5.8	5.9	12/05/07	RJH	SM4500HB
Antimony, ug/l	0.05	6.0	--- U	--- U	0.4 J	0.1 J	0.1 J	12/07/07	CMF	EPA200.8
Arsenic, ug/l	0.47	10.0	1.4 J	6.8 J	--- U	1.9 J	11	12/07/07	CMF	EPA200.8
Barium, ug/l	0.04	100.0	144	147	77.9 J	196	143	12/07/07	CMF	EPA200.8
Beryllium, ug/l	0.08	1.0	0.2 J	0.1 J	1	0.8 J	--- U	12/07/07	CMF	EPA200.8
Cadmium, ug/l	0.06	1.0	0.6 J	--- U	0.1 J	0.3 J	0.1 J	12/07/07	CMF	EPA200.8
Cobalt, ug/l	0.41	10.0	145	118	6.4 J	23	81	12/07/07	CMF	EPA200.8
Copper, ug/l	0.20	10.0	3.1 J	1.4 J	0.4 J	5.2 J	2.8 J	12/07/07	CMF	EPA200.8
Total Chromium, ug/l	0.24	10.0	2.5 J	0.7 J	--- U	9.8 J	--- U	12/07/07	CMF	EPA200.8
Lead, ug/l	0.07	10.0	2.1 J	0.4 J	--- U	2.6 J	0.4 J	12/07/07	CMF	EPA200.8
Mercury, ug/l	0.04	0.20	0.07 J	--- U	--- U	--- U	--- U	12/07/07	CMF	EPA200.8
Nickel, ug/l	0.66	50.0	3.6 J	10.4 J	4.8 J	9.5 J	4.4 J	12/07/07	CMF	EPA200.8
Selenium, ug/l	0.35	10.0	0.8 J	--- U	--- U	2.2 J	--- U	12/07/07	CMF	EPA200.8
Silver, ug/l	0.52	10.0	--- U	--- U	--- U	--- U	--- U	12/07/07	CMF	EPA200.8
Thallium, ug/l	0.07	5.0	--- U	--- U	--- U	--- U	--- U	12/07/07	CMF	EPA200.8
Vanadium, ug/l	0.42	25.0	6.3 J	2.6 J	0.7 J	15.8 J	2.0 J	12/07/07	CMF	EPA200.8
Zinc, ug/l	0.20	10.0	14	7.4 J	16	48	11	12/07/07	CMF	EPA200.8
Conductivity (at 25c), uMhos	1.0	1.0	367	313	68	498	446	12/05/07	RJH	SM2510B
Temperature, °C			16	15	15	15	17	12/05/07	RJH	SM2550B
Static Water Level, feet			26.01	24.82	20.82	27.91	27.37	12/05/07	RJH	
Well Depth, feet			30.41	28.85	25.20	35.49	35.39	12/05/07	RJH	

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: I0

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 6025

HERTFORD COUNTY LANDFILL
C/O MUNICIPAL ENGINEERS
P.O. BOX 97
GARNER ,NC 27529

DATE COLLECTED: 12/05/07
DATE REPORTED : 12/28/07

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW-F	MW-G	MW-H	MW-I	MW-J	Analysis Date	Analyst	Method Code
PH (field measurement), Units			6.3	6.1	6.5	5.9	5.8	12/05/07	RJH	SM4500HB
Antimony, ug/l	0.05	6.0	0.3 J	0.1 J	0.1 J	--- U	--- U	12/07/07	CMF	EPA200.8
Arsenic, ug/l	0.47	10.0	5.6 J	0.9 J	2.5 J	3.2 J	0.5 J	12/07/07	CMF	EPA200.8
Barium, ug/l	0.04	100.0	545	117	2906	194	75.0 J	12/07/07	CMF	EPA200.8
Beryllium, ug/l	0.08	1.0	1	0.1 J	--- U	0.1 J	0.1 J	12/07/07	CMF	EPA200.8
Cadmium, ug/l	0.06	1.0	1	0.1 J	--- U	--- U	0.2 J	12/07/07	CMF	EPA200.8
Cobalt, ug/l	0.41	10.0	189	5.2 J	485	43	8.8 J	12/07/07	CMF	EPA200.8
Copper, ug/l	0.20	10.0	3.1 J	--- U	--- U	--- U	--- U	12/07/07	CMF	EPA200.8
Total Chromium, ug/l	0.24	10.0	3.5 J	--- U	--- U	--- U	--- U	12/07/07	CMF	EPA200.8
Lead, ug/l	0.07	10.0	3.7 J	0.2 J	--- U	--- U	0.1 J	12/07/07	CMF	EPA200.8
Mercury, ug/l	0.13	0.20	0.36					12/20/07	ADD	EPA245.1
Mercury, ug/l	0.13	0.20		--- U	--- U	--- U	--- U	12/07/07	CMF	EPA200.8
Nickel, ug/l	0.66	50.0	14.1 J	8.2 J	54	6.1 J	4.0 J	12/07/07	CMF	EPA200.8
Selenium, ug/l	0.35	10.0	1.3 J	0.8 J	0.6 J	0.6 J	0.5 J	12/07/07	CMF	EPA200.8
Silver, ug/l	0.52	10.0	--- U	--- U	--- U	--- U	--- U	12/07/07	CMF	EPA200.8
Thallium, ug/l	0.07	5.0	1.3 J	--- U	0.7 J	--- U	--- U	12/07/07	CMF	EPA200.8
Vanadium, ug/l	0.42	25.0	8.8 J	1.4 J	--- U	1.0 J	1.2 J	12/07/07	CMF	EPA200.8
Zinc, ug/l	0.20	10.0	375	31	2.0 J	15	12	12/07/07	CMF	EPA200.8
Conductivity (at 25c), uMhos	1.0	1.0	948	294	912	454	211	12/05/07	RJH	SM2510B
Temperature, °C			17	15	15	15	15	12/05/07	RJH	SM2550B
Static Water Level, feet			31.17	24.82	27.95	30.32	27.71	12/05/07	RJH	
Well Depth, feet			35.28	39.65	37.11	36.47	38.45	12/05/07	RJH	

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 6025

HERTFORD COUNTY LANDFILL
C/O MUNICIPAL ENGINEERS
P.O. BOX 97
GARNER ,NC 27529

DATE COLLECTED: 12/05/07
DATE REPORTED : 12/28/07

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW-K	MW-L	MW-M	Trip Blank	Equipment Blank	Analysis Date	Analyst	Method Code
PH (field measurement), Units			5.8	5.9	6.4			12/05/07	RJH	SM4500HB
Antimony, ug/l	0.05	6.0	0.2 J					12/07/07	CMF	EPA200.8
Antimony, ug/l	0.05	6.0		0.1 J	0.1 J		--- U	12/13/07	LFJ	EPA200.8
Arsenic, ug/l	0.47	10.0	1.5 J					12/07/07	CMF	EPA200.8
Arsenic, ug/l	0.47	10.0		2.1 J	--- U		--- U	12/13/07	LFJ	EPA200.8
Barium, ug/l	0.04	100.0	106					12/07/07	CMF	EPA200.8
Barium, ug/l	0.04	100.0		105	46.4 J		0.1 J	12/13/07	LFJ	EPA200.8
Beryllium, ug/l	0.08	1.0	0.8 J					12/07/07	CMF	EPA200.8
Beryllium, ug/l	0.08	1.0		0.4 J	0.2 J		--- U	12/13/07	LFJ	EPA200.8
Cadmium, ug/l	0.06	1.0	0.2 J					12/07/07	CMF	EPA200.8
Cadmium, ug/l	0.06	1.0		3	0.1 J		--- U	12/13/07	LFJ	EPA200.8
Cobalt, ug/l	0.41	10.0	2.5 J					12/07/07	CMF	EPA200.8
Cobalt, ug/l	0.41	10.0		67	--- U		--- U	12/13/07	LFJ	EPA200.8
Copper, ug/l	0.20	10.0	2.9 J					12/07/07	CMF	EPA200.8
Copper, ug/l	0.20	10.0		4.6 J	0.5 J		0.7 J	12/13/07	LFJ	EPA200.8
Total Chromium, ug/l	0.24	10.0	14					12/07/07	CMF	EPA200.8
Total Chromium, ug/l	0.24	10.0		4.9 J	2.4 J		--- U	12/13/07	LFJ	EPA200.8
Lead, ug/l	0.07	10.0	4.0 J					12/07/07	CMF	EPA200.8
Lead, ug/l	0.07	10.0		3.5 J	0.9 J		--- U	12/13/07	LFJ	EPA200.8
Mercury, ug/l	0.04	0.20	0.08 J					12/07/07	CMF	EPA200.8
Mercury, ug/l	0.04	0.20		0.62	--- U		--- U	12/18/07	LFJ	EPA200.8
Nickel, ug/l	0.66	50.0	5.1 J					12/07/07	CMF	EPA200.8
Nickel, ug/l	0.66	50.0		7.0 J	0.9 J		--- U	12/13/07	LFJ	EPA200.8
Selenium, ug/l	0.35	10.0	0.4 J					12/07/07	CMF	EPA200.8
Selenium, ug/l	0.35	10.0		0.7 J	0.8 J		--- U	12/13/07	LFJ	EPA200.8
Silver, ug/l	0.52	10.0	--- U					12/07/07	CMF	EPA200.8
Silver, ug/l	0.52	10.0		--- U	--- U		--- U	12/13/07	LFJ	EPA200.8
Thallium, ug/l	0.07	5.0	0.1 J					12/07/07	CMF	EPA200.8
Thallium, ug/l	0.07	5.0		0.3 J	0.1 J		0.1 J	12/13/07	LFJ	EPA200.8
Vanadium, ug/l	0.42	25.0	18.3 J					12/07/07	CMF	EPA200.8
Vanadium, ug/l	0.42	25.0		10.7 J	--- U		0.6 J	12/13/07	LFJ	EPA200.8
Zinc, ug/l	0.20	10.0	28					12/07/07	CMF	EPA200.8
Zinc, ug/l	0.20	10.0		300	3.0 J		1.2 J	12/13/07	LFJ	EPA200.8
Conductivity (at 25c), uMhos	1.0	1.0	223	260	57			12/05/07	RJH	SM2510B
Temperature, °C			15	16	18			12/05/07	RJH	SM2550B
Static Water Level, feet			29.26	25.26	23.81			12/05/07	RJH	
Well Depth, feet			42.92	35.19	39.83			12/05/07	RJH	

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: HERTFORD COUNTY LANDFILL
C/O MUNICIPAL ENGINEERS
P.O. BOX 97
GARNER, NC 27529

CLIENT ID: 6025

ANALYST: MAO
DATE COLLECTED: 12/05/07
DATE ANALYZED: 12/07/07
DATE REPORTED: 12/28/07

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	MW-A	MW-B	MW-C	MW-D	MW-E
1. Chloromethane	0.18	1.0	--- U	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.34	1.0	0.50 J	10.60	--- U	0.50 J	3.10
3. Bromomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.29	10.0	0.60 J	0.40 J	--- U	--- U	1.20 J
5. Trichlorofluoromethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.14	5.0	--- U	0.20 J	--- U	--- U	--- U
7. Acetone	1.21	100.0	1.70 J	2.80 J	--- U	--- U	1.70 J
8. Iodomethane	0.12	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.14	100.0	--- U	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.14	1.0	--- U	--- U	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.13	5.0	--- U	0.50 J	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.16	5.0	1.30 J	2.40 J	--- U	0.20 J	1.00 J
13. Vinyl Acetate	0.20	5.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	0.30 J	10.40	--- U	1.20 J	0.60 J
15. 2-Butanone	0.85	100.0	--- U	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.11	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.13	5.0	--- U	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.11	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.13	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.16	1.0	1.90	0.50 J	--- U	0.30 J	2.20
21. 1,2-Dichloroethane	0.12	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.13	1.0	--- U	8.10	--- U	0.20 J	--- U
23. 1,2-Dichloropropane	0.17	1.0	--- U	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.17	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	0.68	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.13	1.0	0.80 J	0.20 J	--- U	--- U	0.30 J
28. trans-1,3-Dichloropropene	0.14	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.20	1.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.16	1.0	--- U	1.40	--- U	0.20 J	--- U
31. 2-Hexanone	1.00	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.14	3.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.13	3.0	4.90	1.20 J	--- U	0.20 J	16.80
35. 1,1,1,2-Tetrachloroethane	0.14	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
37. Xylenes	0.48	5.0	--- U	0.90 J	--- U	--- U	--- U
38. Dibromomethane	0.17	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.11	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	3.0	--- U	0.20 J	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.06	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.21	1.0	1.00	--- U	--- U	0.30 J	2.70
44. 1,2-Dichlorobenzene	0.13	5.0	--- U	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.26	13.0	--- U	--- U	--- U	--- U	--- U
46. Acrylonitrile	1.49	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.0	--- U	--- U	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: HERTFORD COUNTY LANDFILL
C/O MUNICIPAL ENGINEERS
P.O. BOX 97
GARNER, NC 27529

CLIENT ID: 6025

ANALYST: MAO
DATE COLLECTED: 12/05/07
DATE ANALYZED: 12/07/07
DATE REPORTED: 12/28/07

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	MW-F	MW-G	MW-H	MW-I	MW-J
1. Chloromethane	0.18	1.0	--- U	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.34	1.0	10.30	0.80 J	6.80	16.30	2.90
3. Bromomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.29	10.0	1.00 J	--- U	1.20 J	0.50 J	--- U
5. Trichlorofluoromethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.14	5.0	--- U	--- U	--- U	--- U	--- U
7. Acetone	1.21	100.0	--- U	84.10 J	2.60 J	--- U	--- U
8. Iodomethane	0.12	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.14	100.0	--- U	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.14	1.0	--- U	--- U	--- U	--- U	0.20 J
11. trans-1,2-Dichloroethene	0.13	5.0	0.50 J	--- U	0.30 J	0.20 J	--- U
12. 1,1-Dichloroethane	0.16	5.0	4.70 J	--- U	2.60 J	1.80 J	0.50 J
13. Vinyl Acetate	0.20	5.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	49.40	--- U	21.70	9.60	3.90 J
15. 2-Butanone	0.85	100.0	--- U	1.60 J	--- U	--- U	--- U
16. Bromochloromethane	0.11	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.13	5.0	--- U	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.11	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.13	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.16	1.0	3.40	--- U	2.60	3.30	0.50 J
21. 1,2-Dichloroethane	0.12	1.0	0.50 J	--- U	0.20 J	--- U	--- U
22. Trichloroethene	0.13	1.0	1.50	0.20 J	0.50 J	0.40 J	0.50 J
23. 1,2-Dichloropropane	0.17	1.0	--- U	--- U	--- U	0.20 J	--- U
24. Bromodichloromethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.17	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	0.68	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.13	1.0	0.40 J	--- U	0.20 J	--- U	--- U
28. trans-1,3-Dichloropropene	0.14	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.20	1.0	--- U	--- U	--- U	0.20 J	--- U
30. Tetrachloroethene	0.16	1.0	0.90 J	0.40 J	--- U	0.30 J	1.10
31. 2-Hexanone	1.00	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.14	3.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.13	3.0	16.50	--- U	14.10	19.60	0.60 J
35. 1,1,1,2-Tetrachloroethane	0.14	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
37. Xylenes	0.48	5.0	--- U	--- U	--- U	--- U	--- U
38. Dibromomethane	0.17	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.11	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	3.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.06	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.21	1.0	3.90	--- U	4.00	4.50	--- U
44. 1,2-Dichlorobenzene	0.13	5.0	0.20 J	--- U	0.30 J	0.20 J	--- U
45. 1,2-Dibromo-3-Chloropropane	0.26	13.0	--- U	--- U	--- U	--- U	--- U
46. Acrylonitrile	1.49	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.0	--- U	--- U	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

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CLIENT: HERTFORD COUNTY LANDFILL
C/O MUNICIPAL ENGINEERS
P.O. BOX 97
GARNER, NC 27529

CLIENT ID: 6025

ANALYST: MAO
DATE COLLECTED: 12/05/07
DATE ANALYZED: 12/07/07
DATE REPORTED: 12/28/07

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	MW-K	MW-L	MW-M	Trip Blank	Equipment Blank
1. Chloromethane	0.18	1.0	--- U	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.34	1.0	2.80	1.30	--- U	--- U	--- U
3. Bromomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.29	10.0	--- U	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.14	5.0	--- U	--- U	--- U	--- U	--- U
7. Acetone	1.21	100.0	--- U	--- U	--- U	--- U	--- U
8. Iodomethane	0.12	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.14	100.0	--- U	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.14	1.0	0.20 J	--- U	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.13	5.0	--- U	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.16	5.0	0.40 J	0.20 J	--- U	--- U	--- U
13. Vinyl Acetate	0.20	5.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	2.10 J	2.00 J	--- U	--- U	--- U
15. 2-Butanone	0.85	100.0	--- U	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.11	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.13	5.0	0.40 J	0.40 J	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.11	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.13	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.16	1.0	0.40 J	--- U	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.12	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.13	1.0	0.50 J	0.30 J	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.17	1.0	--- U	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.17	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	0.68	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.13	1.0	--- U	--- U	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.14	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.20	1.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.16	1.0	0.90 J	--- U	0.30 J	--- U	--- U
31. 2-Hexanone	1.00	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.14	3.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.13	3.0	0.20 J	0.40 J	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.14	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
37. Xylenes	0.48	5.0	--- U	--- U	--- U	--- U	--- U
38. Dibromomethane	0.17	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.11	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	3.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.06	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.21	1.0	--- U	0.40 J	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.13	5.0	--- U	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.26	13.0	--- U	--- U	--- U	--- U	--- U
46. Acrylonitrile	1.49	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.0	--- U	--- U	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

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ID#: 6025 A

HERTFORD COUNTY LANDFILL
C/O MUNICIPAL ENGINEERS
P.O. BOX 97
GARNER ,NC 27529

DATE COLLECTED: 12/05/07
DATE REPORTED : 12/28/07

REVIEWED BY:

PARAMETERS	MDL	SWSL	SW-1	SW-2	SW-3	SW-4	Analysis Date	Analyst	Method Code
PH (field measurement), Units			5.6	6.2	Missing	6.7	12/05/07	RJH	SM4500HB
Antimony, ug/l	0.05	6.0	0.3 J	0.1 J	Missing	0.1 J	12/13/07	LFJ	EPA200.8
Arsenic, ug/l	0.47	10.0	0.5 J	0.6 J	Missing	0.7 J	12/13/07	LFJ	EPA200.8
Barium, ug/l	0.04	100.0	77.7 J	55.1 J	Missing	375	12/13/07	LFJ	EPA200.8
Beryllium, ug/l	0.08	1.0	0.2 J	--- U	Missing	--- U	12/13/07	LFJ	EPA200.8
Cadmium, ug/l	0.06	1.0	0.4 J	0.4 J	Missing	0.2 J	12/13/07	LFJ	EPA200.8
Cobalt, ug/l	0.41	10.0	20	4.1 J	Missing	12	12/13/07	LFJ	EPA200.8
Copper, ug/l	0.20	10.0	2.0 J	0.8 J	Missing	2.3 J	12/13/07	LFJ	EPA200.8
Total Chromium, ug/l	0.24	10.0	0.7 J	--- U	Missing	1.2 J	12/13/07	LFJ	EPA200.8
Lead, ug/l	0.07	10.0	1.1 J	0.4 J	Missing	3.7 J	12/13/07	LFJ	EPA200.8
Nickel, ug/l	0.66	50.0	3.0 J	1.1 J	Missing	3.4 J	12/13/07	LFJ	EPA200.8
Selenium, ug/l	0.35	10.0	--- U	--- U	Missing	1.6 J	12/13/07	LFJ	EPA200.8
Silver, ug/l	0.52	10.0	--- U	--- U	Missing	--- U	12/13/07	LFJ	EPA200.8
Thallium, ug/l	0.07	5.0	--- U	--- U	Missing	--- U	12/13/07	LFJ	EPA200.8
Vanadium, ug/l	0.42	25.0	2.7 J	1.8 J	Missing	3.7 J	12/13/07	LFJ	EPA200.8
Zinc, ug/l	0.20	10.0	39	5.2 J	Missing	11	12/13/07	LFJ	EPA200.8
Conductivity (at 25c), uMhos	1.0	1.0	138	125	Missing	563	12/05/07	RJH	SM2510B
Temperature, °C			8	8	Missing	6	12/05/07	RJH	SM2550B
8260 (duplicate)					Missing		/ /		

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: HERTFORD COUNTY LANDFILL
C/O MUNICIPAL ENGINEERS
P.O. BOX 97
GARNER, NC 27529

CLIENT ID: 6025 A

ANALYST: MAO
DATE COLLECTED: 12/05/07
DATE ANALYZED: 12/13/07
DATE REPORTED: 12/28/07

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	SW-1	SW-2	SW-4
1. Chloromethane	0.18	1.0	--- U	--- U	--- U
2. Vinyl Chloride	0.34	1.0	--- U	--- U	--- U
3. Bromomethane	0.26	10.0	--- U	--- U	--- U
4. Chloroethane	0.29	10.0	--- U	--- U	--- U
5. Trichlorofluoromethane	0.13	1.0	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.14	5.0	--- U	--- U	--- U
7. Acetone	1.21	100.0	--- U	2.10 J	2.30 J
8. Iodomethane	0.12	10.0	--- U	--- U	--- U
9. Carbon Disulfide	0.14	100.0	--- U	--- U	--- U
10. Methylene Chloride	0.14	1.0	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.13	5.0	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.16	5.0	--- U	--- U	--- U
13. Vinyl Acetate	0.20	5.0	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	--- U	--- U	--- U
15. 2-Butanone	0.85	100.0	--- U	--- U	--- U
16. Bromochloromethane	0.11	3.0	--- U	--- U	--- U
17. Chloroform	0.13	5.0	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.11	1.0	--- U	--- U	--- U
19. Carbon Tetrachloride	0.13	1.0	--- U	--- U	--- U
20. Benzene	0.16	1.0	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.12	1.0	--- U	--- U	--- U
22. Trichloroethene	0.13	1.0	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.17	1.0	--- U	--- U	--- U
24. Bromodichloromethane	0.13	1.0	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.17	1.0	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	0.68	100.0	--- U	--- U	--- U
27. Toluene	0.13	1.0	--- U	--- U	0.20 J
28. trans-1,3-Dichloropropene	0.14	1.0	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.20	1.0	--- U	--- U	--- U
30. Tetrachloroethene	0.16	1.0	--- U	--- U	--- U
31. 2-Hexanone	1.00	50.0	--- U	--- U	--- U
32. Dibromochloromethane	0.14	3.0	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U	--- U	--- U
34. Chlorobenzene	0.13	3.0	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.14	5.0	--- U	--- U	--- U
36. Ethylbenzene	0.16	1.0	--- U	--- U	--- U
37. Xylenes	0.48	5.0	--- U	--- U	--- U
38. Dibromomethane	0.17	10.0	--- U	--- U	--- U
39. Styrene	0.16	1.0	--- U	--- U	--- U
40. Bromoform	0.11	3.0	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	3.0	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.06	1.0	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.21	1.0	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.13	5.0	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.26	13.0	--- U	--- U	--- U
46. Acrylonitrile	1.49	200.0	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.0	--- U	--- U	--- U

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