Semi-Annual Groundwater Sampling and Analysis Report

Prepared for

Hertford County Closed Landfill
Winton, North Carolina

June, 2007

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

Completed on August 10, 2007

Municipal Services Engineering Company, P.A.
Garner, NC 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.

August 8, 2007

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 June 20, 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 was 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). The results are shown in the enclosed tables titled "Detection Scan". The following table summarize those constituents that exceeded the NCGW2L Standards.

Table 1. Exceedance Summary

Well	Barium	Vinyl Chloride	Trichloroethylene	Tetrachloroethene	1,4-Dichlorobenzene	1,2-Dichloroethane	Benzene
MW-A		x					x
MW-B		x	x	x			
MW-D		x					
MW-E		x			x		x
MW-F		x		x	x	x	
MW-G		x			x		
MW-H	x	x			x		x
MW-I		x			x		x
MW-J		x		x			
MW-L		x					

x=concentration greater than NCGW2L standard

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Metals were detected within all of the monitoring wells but only barium within MW-H was found above the Standard. Barium has consistently been found within MW-H since monitoring began but levels were found within the historical identifiable range.

Quantifiable concentrations of VOCs continue to be detected within all of the monitoring wells with the exception of MW-C and MW-K. 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-K. This is the premier event that vinyl chloride has been detected within compliance wells MW-J and MW-L but the reduction of reporting limits from 5 ug/L to 1 ug/L is the likely cause not a recent release. . All vinyl chloride concentrations sans the premier detections were found within their historical identifiable range and levels of the purgeable halocarbon appears to not be increasing.

MW-I, located downgradient and west of SR1174, continues to contain concentrations of vinyl chloride above the Standard. Both benzene and 1,4-DCB were also discovered within MW-I above the Standard and outside of their historical identifiable range. It is important to note that the aromatics may have been present prior to this event but were not quantifiable until the new more stringent SWSL were enacted during the previous sampling event.

MW-F, located downgradient and east of SR1174, also continues to contain concentrations of vinyl chloride above the Standard. The aromatics benzene and 1,4-DCB also were found barely above the SWSL and Standard within MW-F. 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.

Downgradient well MW-E was also found to contain vinyl chloride, benzene, and 1,4-DCB, above the Standard and in concentrations very similar to those found within MW-F, and MW-I. All of the detected VOCS within MW-E were found in concentrations above the new SWSL but below the old PQL indicating that the parameters likely have been present but in such low concentrations they previously were considered to be non-detected.

The results of the latest semi-annual sampling event indicate that the groundwater quality has not degraded compared to previous 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. However, Potecasi Creek which serves as the downgradient local discharge feature continues to not be impacted as indicated by the complete lack of VOCs.

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 December 2007. 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 and NCGW2L
Hertford County Closed Landfill

Well ID	Parameter Name [1]	Sample Date	Result	Unit	SWSL [2]	NCGW2L [3]	Exceedance
MW-A	1,4-Dichlorobenzene	06/20/2007	1.3	ug/l	1	1.4	
MW-A	Barium	06/20/2007	150	ug/l	100	2000	
MW-A	**Benzene**	**06/20/2007**	**2.6**	**ug/l**	**1**	**1**	**1.6**
MW-A	Chlorobenzene	06/20/2007	5.4	ug/l	3	50	
MW-A	Cobalt	06/20/2007	81	ug/l	10		
MW-A	**Vinyl Chloride**	**06/20/2007**	**0.6**	**ug/l**	**1**	**0.015**	**0.585**
MW-B	Barium	06/20/2007	164	ug/l	100	2000	
MW-B	Cis-1,2-Dichloroethene	06/20/2007	10.9	ug/l	5	70	
MW-B	Cobalt	06/20/2007	186	ug/l	10		
MW-B	**Tetrachloroethene**	**06/20/2007**	**1.6**	**ug/l**	**1**	**0.7**	**0.9**
MW-B	**Trichloroethene**	**06/20/2007**	**10.2**	**ug/l**	**1**	**2.8**	**7.4**
MW-B	**Vinyl Chloride**	**06/20/2007**	**13.6**	**ug/l**	**1**	**0.015**	**13.585**
MW-C	Beryllium	06/20/2007	1.1	ug/l	1		
MW-C	Zinc	06/20/2007	21	ug/l	10	1050	
MW-D	Barium	06/20/2007	167	ug/l	100	2000	
MW-D	Cobalt	06/20/2007	32	ug/l	10		
MW-D	**Vinyl Chloride**	**06/20/2007**	**1.4**	**ug/l**	**1**	**0.015**	**1.385**
MW-D	Zinc	06/20/2007	47	ug/l	10	1050	
MW-E	**1,4-Dichlorobenzene**	**06/20/2007**	**3.3**	**ug/l**	**1**	**1.4**	**1.9**
MW-E	Barium	06/20/2007	151	ug/l	100	2000	
MW-E	**Benzene**	**06/20/2007**	**2.3**	**ug/l**	**1**	**1**	**1.3**
MW-E	Chlorobenzene	06/20/2007	16.4	ug/l	3	50	
MW-E	Cobalt	06/20/2007	18	ug/l	10		
MW-E	**Vinyl Chloride**	**06/20/2007**	**1.8**	**ug/l**	**1**	**0.015**	**1.785**
MW-F	1,1-Dichloroethane	06/20/2007	5.5	ug/l	5	70	
MW-F	**1,2-Dichloroethane**	**06/20/2007**	**0.5**	**ug/l**	**1**	**0.38**	**0.12**
MW-F	**1,4-Dichlorobenzene**	**06/20/2007**	**3**	**ug/l**	**1**	**1.4**	**1.6**
MW-F	Barium	06/20/2007	518	ug/l	100	2000	
MW-F	Chlorobenzene	06/20/2007	13.2	ug/l	3	50	
MW-F	Cis-1,2-Dichloroethene	06/20/2007	47	ug/l	5	70	
MW-F	Cobalt	06/20/2007	80	ug/l	10		
MW-F	**Tetrachloroethene**	**06/20/2007**	**1.3**	**ug/l**	**1**	**0.7**	**0.6**
MW-F	Trichloroethene	06/20/2007	1.6	ug/l	1	2.8	
MW-F	**Vinyl Chloride**	**06/20/2007**	**11.6**	**ug/l**	**1**	**0.015**	**11.585**
MW-G	**1,4-Dichlorobenzene**	**06/20/2007**	**4.3**	**ug/l**	**1**	**1.4**	**2.9**
MW-G	Barium	06/20/2007	132	ug/l	100	2000	
MW-G	**Vinyl Chloride**	**06/20/2007**	**1.2**	**ug/l**	**1**	**0.015**	**1.185**
MW-G	Zinc	06/20/2007	21	ug/l	10	1050	
MW-H	**1,4-Dichlorobenzene**	**06/20/2007**	**4.3**	**ug/l**	**1**	**1.4**	**2.9**
MW-H	**Barium**	**06/20/2007**	**2858**	**ug/l**	**100**	**2000**	**858**
MW-H	**Benzene**	**06/20/2007**	**3**	**ug/l**	**1**	**1**	**2**
MW-H	Chlorobenzene	06/20/2007	15.6	ug/l	3	50	
MW-H	Cis-1,2-Dichloroethene	06/20/2007	32.2	ug/l	5	70	
MW-H	Cobalt	06/20/2007	575	ug/l	10		
MW-H	Nickel	06/20/2007	57	ug/l	50	100	
MW-H	**Vinyl Chloride**	**06/20/2007**	**8.9**	**ug/l**	**1**	**0.015**	**8.885**

Well ID	Parameter Name [1]	Sample Date	Result	Unit	SWSL [2]	NCGW2L [3]	Exceedance
MW-I	**1,4-Dichlorobenzene**	**06/20/2007**	**4**	**ug/l**	1	**1.4**	**2.6**
MW-I	Barium	06/20/2007	190	ug/l	100	2000	
MW-I	**Benzene**	**06/20/2007**	**3.4**	**ug/l**	**1**	**1**	**2.4**
MW-I	Chlorobenzene	06/20/2007	19.4	ug/l	3	50	
MW-I	Cis-1,2-Dichloroethene	06/20/2007	11.4	ug/l	5	70	
MW-I	Cobalt	06/20/2007	44.4	ug/l	10		
MW-I	**Vinyl Chloride**	**06/20/2007**	**16.6**	**ug/l**	**1**	**0.015**	**16.585**
MW-I	Zinc	06/20/2007	33	ug/l	10	1050	
MW-J	Cobalt	06/20/2007	11	ug/l	10		
MW-J	**Tetrachloroethene**	**06/20/2007**	**1.1**	**ug/l**	**1**	**0.7**	**0.4**
MW-J	**Vinyl Chloride**	**06/20/2007**	**2**	**ug/l**	**1**	**0.015**	**1.985**
MW-J	Zinc	06/20/2007	13	ug/l	10	1050	
MW-L	Cobalt	06/20/2007	134	ug/l	10		
MW-L	**Vinyl Chloride**	**06/20/2007**	**1.5**	**ug/l**	**1**	**0.015**	**1.485**
MW-L	Zinc	06/20/2007	18	ug/l	10	1050	
SW-1	Cobalt	06/28/2007	11	ug/l	10		

[1] Table only contains detected constituents.

[2] SWSL = Solid Waste Section Limit (Current as of sampling event)

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

Detection Scan All Detections above MDL
Hertford County Closed Landfill

Well ID	Parameter Name [1]	Sample Date	Result	Unit	SWSL [2]	NCGW2L [3]	Exceedance
MW-A	1,1-Dichloroethane	06/20/2007	1.7	ug/l	5	70	
MW-A	1,4-Dichlorobenzene	06/20/2007	1.3	ug/l	1	1.4	
MW-A	2-Butanone	06/20/2007	2.2	ug/l	100	4200	
MW-A	Acetone	06/20/2007	2	ug/l	100	700	
MW-A	Arsenic	06/20/2007	1.3	ug/l	10	50	
MW-A	Barium	06/20/2007	150	ug/l	100	2000	
MW-A	**Benzene**	**06/20/2007**	**2.6**	**ug/l**	**1**	**1**	**1.6**
MW-A	Beryllium	06/20/2007	0.1	ug/l	1		
MW-A	Cadmium	06/20/2007	0.1	ug/l	1	1.75	
MW-A	Chlorobenzene	06/20/2007	5.4	ug/l	3	50	
MW-A	Chloroethane	06/20/2007	0.6	ug/l	10		
MW-A	Chromium	06/20/2007	0.3	ug/l	10	50	
MW-A	Cis-1,2-Dichloroethene	06/20/2007	0.4	ug/l	5	70	
MW-A	Cobalt	06/20/2007	81	ug/l	10		
MW-A	Copper	06/20/2007	0.9	ug/l	10	1000	
MW-A	Lead	06/20/2007	0.5	ug/l	10	15	
MW-A	Mercury	06/20/2007	0.1	ug/l	0.2	1.1	
MW-A	Nickel	06/20/2007	2.2	ug/l	50	100	
MW-A	Vanadium	06/20/2007	2.6	ug/l	25		
MW-A	**Vinyl Chloride**	**06/20/2007**	**0.6**	**ug/l**	**1**	**0.015**	**0.585**
MW-A	Zinc	06/20/2007	9.5	ug/l	10	1050	
MW-B	1,1-Dichloroethane	06/20/2007	2.4	ug/l	5	70	
MW-B	1,1-Dichloroethene	06/20/2007	0.2	ug/l	5	7	
MW-B	2-Butanone	06/20/2007	1.3	ug/l	100	4200	
MW-B	Acetone	06/20/2007	1.9	ug/l	100	700	
MW-B	Arsenic	06/20/2007	8.7	ug/l	10	50	
MW-B	Barium	06/20/2007	164	ug/l	100	2000	
MW-B	Benzene	06/20/2007	0.6	ug/l	1	1	
MW-B	Chlorobenzene	06/20/2007	1.9	ug/l	3	50	
MW-B	Chloroethane	06/20/2007	0.3	ug/l	10		
MW-B	Chromium	06/20/2007	0.6	ug/l	10	50	
MW-B	Cis-1,2-Dichloroethene	06/20/2007	10.9	ug/l	5	70	
MW-B	Cobalt	06/20/2007	186	ug/l	10		
MW-B	Copper	06/20/2007	1.8	ug/l	10	1000	
MW-B	Ethylbenzene	06/20/2007	0.3	ug/l	1	550	
MW-B	Lead	06/20/2007	0.6	ug/l	10	15	
MW-B	Nickel	06/20/2007	14	ug/l	50	100	
MW-B	**Tetrachloroethene**	**06/20/2007**	**1.6**	**ug/l**	**1**	**0.7**	**0.9**
MW-B	Toluene	06/20/2007	0.3	ug/l	1	1000	
MW-B	trans-1,2-Dichloroethene	06/20/2007	0.4	ug/l	5	100	
MW-B	**Trichloroethene**	**06/20/2007**	**10.2**	**ug/l**	**1**	**2.8**	**7.4**
MW-B	Vanadium	06/20/2007	4.6	ug/l	25		
MW-B	**Vinyl Chloride**	**06/20/2007**	**13.6**	**ug/l**	**1**	**0.015**	**13.585**
MW-B	Zinc	06/20/2007	9.1	ug/l	10	1050	
MW-C	2-Butanone	06/20/2007	1.6	ug/l	100	4200	
MW-C	Arsenic	06/20/2007	0.5	ug/l	10	50	

Well ID	Parameter Name [1]	Sample Date	Result	Unit	SWSL [2]	NCGW2L [3]	Exceedance
MW-C	Barium	06/20/2007	78.4	ug/l	100	2000	
MW-C	Beryllium	06/20/2007	1.1	ug/l	1		
MW-C	Cobalt	06/20/2007	7.3	ug/l	10		
MW-C	Copper	06/20/2007	0.9	ug/l	10	1000	
MW-C	Nickel	06/20/2007	5.9	ug/l	50	100	
MW-C	Vanadium	06/20/2007	1.9	ug/l	25		
MW-C	Zinc	06/20/2007	21	ug/l	10	1050	
MW-D	1,1-Dichloroethane	06/20/2007	0.4	ug/l	5	70	
MW-D	1,4-Dichlorobenzene	06/20/2007	0.5	ug/l	1	1.4	
MW-D	2-Butanone	06/20/2007	1.7	ug/l	100	4200	
MW-D	Arsenic	06/20/2007	2.3	ug/l	10	50	
MW-D	Barium	06/20/2007	167	ug/l	100	2000	
MW-D	Benzene	06/20/2007	0.7	ug/l	1	1	
MW-D	Beryllium	06/20/2007	0.4	ug/l	1		
MW-D	Cadmium	06/20/2007	0.1	ug/l	1	1.75	
MW-D	Chlorobenzene	06/20/2007	0.5	ug/l	3	50	
MW-D	Chromium	06/20/2007	6.6	ug/l	10	50	
MW-D	Cis-1,2-Dichloroethene	06/20/2007	2.5	ug/l	5	70	
MW-D	Cobalt	06/20/2007	32	ug/l	10		
MW-D	Copper	06/20/2007	3.9	ug/l	10	1000	
MW-D	Lead	06/20/2007	1.7	ug/l	10	15	
MW-D	Nickel	06/20/2007	9.6	ug/l	50	100	
MW-D	Selenium	06/20/2007	0.4	ug/l	10	50	
MW-D	Tetrachloroethene	06/20/2007	0.3	ug/l	1	0.7	
MW-D	Trichloroethene	06/20/2007	0.3	ug/l	1	2.8	
MW-D	Vanadium	06/20/2007	10.6	ug/l	25		
MW-D	**Vinyl Chloride**	**06/20/2007**	**1.4**	**ug/l**	**1**	**0.015**	**1.385**
MW-D	Zinc	06/20/2007	47	ug/l	10	1050	
MW-E	1,1-Dichloroethane	06/20/2007	1.1	ug/l	5	70	
MW-E	**1,4-Dichlorobenzene**	**06/20/2007**	**3.3**	**ug/l**	1	**1.4**	**1.9**
MW-E	2-Butanone	06/20/2007	2.5	ug/l	100	4200	
MW-E	Acetone	06/20/2007	12.4	ug/l	100	700	
MW-E	Arsenic	06/20/2007	4.5	ug/l	10	50	
MW-E	Barium	06/20/2007	151	ug/l	100	2000	
MW-E	**Benzene**	**06/20/2007**	**2.3**	**ug/l**	**1**	**1**	**1.3**
MW-E	Chlorobenzene	06/20/2007	16.4	ug/l	3	50	
MW-E	Chloroethane	06/20/2007	0.9	ug/l	10		
MW-E	Cis-1,2-Dichloroethene	06/20/2007	0.5	ug/l	5	70	
MW-E	Cobalt	06/20/2007	18	ug/l	10		
MW-E	Copper	06/20/2007	4.6	ug/l	10	1000	
MW-E	Lead	06/20/2007	0.8	ug/l	10	15	
MW-E	Nickel	06/20/2007	1.1	ug/l	50	100	
MW-E	Toluene	06/20/2007	0.3	ug/l	1	1000	
MW-E	Vanadium	06/20/2007	4.1	ug/l	25		
MW-E	**Vinyl Chloride**	**06/20/2007**	**1.8**	**ug/l**	**1**	**0.015**	**1.785**
MW-E	Zinc	06/20/2007	6	ug/l	10	1050	
MW-F	1,1-Dichloroethane	06/20/2007	5.5	ug/l	5	70	
MW-F	1,2-Dichlorobenzene	06/20/2007	0.2	ug/l	5	620	
MW-F	**1,2-Dichloroethane**	**06/20/2007**	**0.5**	**ug/l**	1	**0.38**	**0.12**

Well ID	Parameter Name [1]	Sample Date	Result	Unit	SWSL [2]	NCGW2L [3]	Exceedance
MW-F	**1,4-Dichlorobenzene**	**06/20/2007**	**3**	**ug/l**	1	**1.4**	**1.6**
MW-F	2-Butanone	06/20/2007	2.2	ug/l	100	4200	
MW-F	Acetone	06/20/2007	1.6	ug/l	100	700	
MW-F	Arsenic	06/20/2007	3	ug/l	10	50	
MW-F	Barium	06/20/2007	518	ug/l	100	2000	
MW-F	Chlorobenzene	06/20/2007	13.2	ug/l	3	50	
MW-F	Chloroethane	06/20/2007	0.9	ug/l	10		
MW-F	Cis-1,2-Dichloroethene	06/20/2007	47	ug/l	5	70	
MW-F	Cobalt	06/20/2007	80	ug/l	10		
MW-F	Copper	06/20/2007	0.8	ug/l	10	1000	
MW-F	Methylene Chloride	06/20/2007	0.2	ug/l	1	4.6	
MW-F	Nickel	06/20/2007	7.4	ug/l	50	100	
MW-F	**Tetrachloroethene**	**06/20/2007**	**1.3**	**ug/l**	**1**	**0.7**	**0.6**
MW-F	Thallium	06/20/2007	0.1	ug/l	5		
MW-F	Toluene	06/20/2007	0.3	ug/l	1	1000	
MW-F	trans-1,2-Dichloroethene	06/20/2007	0.4	ug/l	5	100	
MW-F	Trichloroethene	06/20/2007	1.6	ug/l	1	2.8	
MW-F	Vanadium	06/20/2007	1.2	ug/l	25		
MW-F	**Vinyl Chloride**	**06/20/2007**	**11.6**	**ug/l**	**1**	**0.015**	**11.585**
MW-F	Zinc	06/20/2007	3.8	ug/l	10	1050	
MW-G	1,2-Dichlorobenzene	06/20/2007	0.3	ug/l	5	620	
MW-G	1,2-Dichloropropane	06/20/2007	0.2	ug/l	1	0.51	
MW-G	**1,4-Dichlorobenzene**	**06/20/2007**	**4.3**	**ug/l**	1	**1.4**	**2.9**
MW-G	2-Butanone	06/20/2007	1	ug/l	100	4200	
MW-G	Arsenic	06/20/2007	0.7	ug/l	10	50	
MW-G	Barium	06/20/2007	132	ug/l	100	2000	
MW-G	Cis-1,2-Dichloroethene	06/20/2007	0.6	ug/l	5	70	
MW-G	Cobalt	06/20/2007	5.7	ug/l	10		
MW-G	Copper	06/20/2007	0.6	ug/l	10	1000	
MW-G	Lead	06/20/2007	0.2	ug/l	10	15	
MW-G	Nickel	06/20/2007	8.5	ug/l	50	100	
MW-G	Toluene	06/20/2007	0.2	ug/l	1	1000	
MW-G	Trichloroethene	06/20/2007	0.6	ug/l	1	2.8	
MW-G	Vanadium	06/20/2007	1.3	ug/l	25		
MW-G	**Vinyl Chloride**	**06/20/2007**	**1.2**	**ug/l**	**1**	**0.015**	**1.185**
MW-G	Zinc	06/20/2007	21	ug/l	10	1050	
MW-H	1,1-Dichloroethane	06/20/2007	3.7	ug/l	5	70	
MW-H	1,2-Dichlorobenzene	06/20/2007	0.3	ug/l	5	620	
MW-H	1,2-Dichloropropane	06/20/2007	0.2	ug/l	1	0.51	
MW-H	**1,4-Dichlorobenzene**	**06/20/2007**	**4.3**	**ug/l**	1	**1.4**	**2.9**
MW-H	2-Butanone	06/20/2007	1.4	ug/l	100	4200	
MW-H	Arsenic	06/20/2007	2.4	ug/l	10	50	
MW-H	**Barium**	**06/20/2007**	**2858**	**ug/l**	100	**2000**	**858**
MW-H	**Benzene**	**06/20/2007**	**3**	**ug/l**	**1**	**1**	**2**
MW-H	Chlorobenzene	06/20/2007	15.6	ug/l	3	50	
MW-H	Chloroethane	06/20/2007	1.5	ug/l	10		
MW-H	Cis-1,2-Dichloroethene	06/20/2007	32.2	ug/l	5	70	
MW-H	Cobalt	06/20/2007	575	ug/l	10		
MW-H	Copper	06/20/2007	0.7	ug/l	10	1000	

Well ID	Parameter Name [1]	Sample Date	Result	Unit	SWSL [2]	NCGW2L [3]	Exceedance
MW-H	Methylene Chloride	06/20/2007	0.2	ug/l	1	4.6	
MW-H	Nickel	06/20/2007	57	ug/l	50	100	
MW-H	Thallium	06/20/2007	0.7	ug/l	5		
MW-H	Toluene	06/20/2007	0.2	ug/l	1	1000	
MW-H	trans-1,2-Dichloroethene	06/20/2007	0.3	ug/l	5	100	
MW-H	Trichloroethene	06/20/2007	0.6	ug/l	1	2.8	
MW-H	Vanadium	06/20/2007	1.4	ug/l	25		
MW-H	**Vinyl Chloride**	**06/20/2007**	**8.9**	**ug/l**	**1**	**0.015**	**8.885**
MW-H	Zinc	06/20/2007	9.7	ug/l	10	1050	
MW-I	1,1-Dichloroethane	06/20/2007	1.9	ug/l	5	70	
MW-I	1,2-Dichlorobenzene	06/20/2007	0.2	ug/l	5	620	
MW-I	1,2-Dichloropropane	06/20/2007	0.2	ug/l	1	0.51	
MW-I	**1,4-Dichlorobenzene**	**06/20/2007**	**4**	**ug/l**	1	**1.4**	**2.6**
MW-I	2-Butanone	06/20/2007	1.1	ug/l	100	4200	
MW-I	Arsenic	06/20/2007	3.4	ug/l	10	50	
MW-I	Barium	06/20/2007	190	ug/l	100	2000	
MW-I	**Benzene**	**06/20/2007**	**3.4**	**ug/l**	**1**	**1**	**2.4**
MW-I	Cadmium	06/20/2007	0.1	ug/l	1	1.75	
MW-I	Chlorobenzene	06/20/2007	19.4	ug/l	3	50	
MW-I	Chloroethane	06/20/2007	0.5	ug/l	10		
MW-I	Cis-1,2-Dichloroethene	06/20/2007	11.4	ug/l	5	70	
MW-I	Cobalt	06/20/2007	44.4	ug/l	10		
MW-I	Copper	06/20/2007	0.6	ug/l	10	1000	
MW-I	Nickel	06/20/2007	7.3	ug/l	50	100	
MW-I	Tetrachloroethene	06/20/2007	0.3	ug/l	1	0.7	
MW-I	trans-1,2-Dichloroethene	06/20/2007	0.2	ug/l	5	100	
MW-I	Trichloroethene	06/20/2007	0.3	ug/l	1	2.8	
MW-I	Vanadium	06/20/2007	1.3	ug/l	25		
MW-I	**Vinyl Chloride**	**06/20/2007**	**16.6**	**ug/l**	**1**	**0.015**	**16.585**
MW-I	Zinc	06/20/2007	33	ug/l	10	1050	
MW-J	1,1-Dichloroethane	06/20/2007	0.6	ug/l	5	70	
MW-J	2-Butanone	06/20/2007	1.5	ug/l	100	4200	
MW-J	Barium	06/20/2007	86.7	ug/l	100	2000	
MW-J	Benzene	06/20/2007	0.5	ug/l	1	1	
MW-J	Beryllium	06/20/2007	0.2	ug/l	1		
MW-J	Cadmium	06/20/2007	0.2	ug/l	1	1.75	
MW-J	Chlorobenzene	06/20/2007	0.5	ug/l	3	50	
MW-J	Cis-1,2-Dichloroethene	06/20/2007	3.3	ug/l	5	70	
MW-J	Cobalt	06/20/2007	11	ug/l	10		
MW-J	Copper	06/20/2007	0.5	ug/l	10	1000	
MW-J	Lead	06/20/2007	0.1	ug/l	10	15	
MW-J	Methylene Chloride	06/20/2007	0.3	ug/l	1	4.6	
MW-J	Nickel	06/20/2007	5.4	ug/l	50	100	
MW-J	**Tetrachloroethene**	**06/20/2007**	**1.1**	**ug/l**	**1**	**0.7**	**0.4**
MW-J	Trichloroethene	06/20/2007	0.5	ug/l	1	2.8	
MW-J	Vanadium	06/20/2007	1.6	ug/l	25		
MW-J	**Vinyl Chloride**	**06/20/2007**	**2**	**ug/l**	**1**	**0.015**	**1.985**
MW-J	Zinc	06/20/2007	13	ug/l	10	1050	
MW-K	2-Butanone	06/20/2007	2	ug/l	100	4200	

Well ID	Parameter Name [1]	Sample Date	Result	Unit	SWSL [2]	NCGW2L [3]	Exceedance
MW-K	Acetone	06/20/2007	1.6	ug/l	100	700	
MW-K	Antimony	06/20/2007	0.1	ug/l	6		
MW-K	Arsenic	06/20/2007	0.5	ug/l	10	50	
MW-K	Barium	06/20/2007	33.4	ug/l	100	2000	
MW-K	Chloroform	06/20/2007	0.4	ug/l	10	70	
MW-K	Chromium	06/20/2007	1.5	ug/l	10	50	
MW-K	Copper	06/20/2007	0.6	ug/l	10	1000	
MW-K	Nickel	06/20/2007	1.8	ug/l	50	100	
MW-K	Vanadium	06/20/2007	2.1	ug/l	25		
MW-K	Zinc	06/20/2007	4	ug/l	10	1050	
MW-L	1,1-Dichloroethane	06/20/2007	0.2	ug/l	5	70	
MW-L	1,4-Dichlorobenzene	06/20/2007	0.5	ug/l	1	1.4	
MW-L	2-Butanone	06/20/2007	1.6	ug/l	100	4200	
MW-L	Acetone	06/20/2007	1.4	ug/l	100	700	
MW-L	Arsenic	06/20/2007	1.9	ug/l	10	50	
MW-L	Barium	06/20/2007	96.3	ug/l	100	2000	
MW-L	Benzene	06/20/2007	0.8	ug/l	1	1	
MW-L	Beryllium	06/20/2007	0.1	ug/l	1		
MW-L	Chlorobenzene	06/20/2007	0.7	ug/l	3	50	
MW-L	Cis-1,2-Dichloroethene	06/20/2007	2.6	ug/l	5	70	
MW-L	Cobalt	06/20/2007	134	ug/l	10		
MW-L	Copper	06/20/2007	0.4	ug/l	10	1000	
MW-L	Nickel	06/20/2007	8.1	ug/l	50	100	
MW-L	Trichloroethene	06/20/2007	0.3	ug/l	1	2.8	
MW-L	Vanadium	06/20/2007	1.7	ug/l	25		
MW-L	**Vinyl Chloride**	**06/20/2007**	**1.5**	**ug/l**	**1**	**0.015**	**1.485**
MW-L	Zinc	06/20/2007	18	ug/l	10	1050	
MW-M	2-Butanone	06/20/2007	1	ug/l	100	4200	
MW-M	Arsenic	06/20/2007	0.6	ug/l	10	50	
MW-M	Barium	06/20/2007	41.7	ug/l	100	2000	
MW-M	Beryllium	06/20/2007	0.2	ug/l	1		
MW-M	Chromium	06/20/2007	0.4	ug/l	10	50	
MW-M	Copper	06/20/2007	0.3	ug/l	10	1000	
MW-M	Nickel	06/20/2007	1.3	ug/l	50	100	
MW-M	Selenium	06/20/2007	0.5	ug/l	10	50	
MW-M	Vanadium	06/20/2007	1.5	ug/l	25		
MW-M	Zinc	06/20/2007	4.6	ug/l	10	1050	
SW-1	Cobalt	06/28/2007	11	ug/l	10		
EB	Acetone	06/20/2007	1.9	ug/l	100	700	
EB	Vanadium	06/20/2007	0.8	ug/l	25		
EB	Zinc	06/20/2007	2.5	ug/l	10	1050	
TB	Acetone	06/20/2007	1.6	ug/l	100	700	
TB	Toluene	06/20/2007	0.2	ug/l	1	1000	

[1] Table only contains detected constituents.

[2] SWSL = Solid Waste Section Limit (Current as of sampling event)

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

NE = Not Established as of time of sampling event

Hydrologic Properties at Monitoring Well Locations
Hertford County Closed Sanitary Landfill

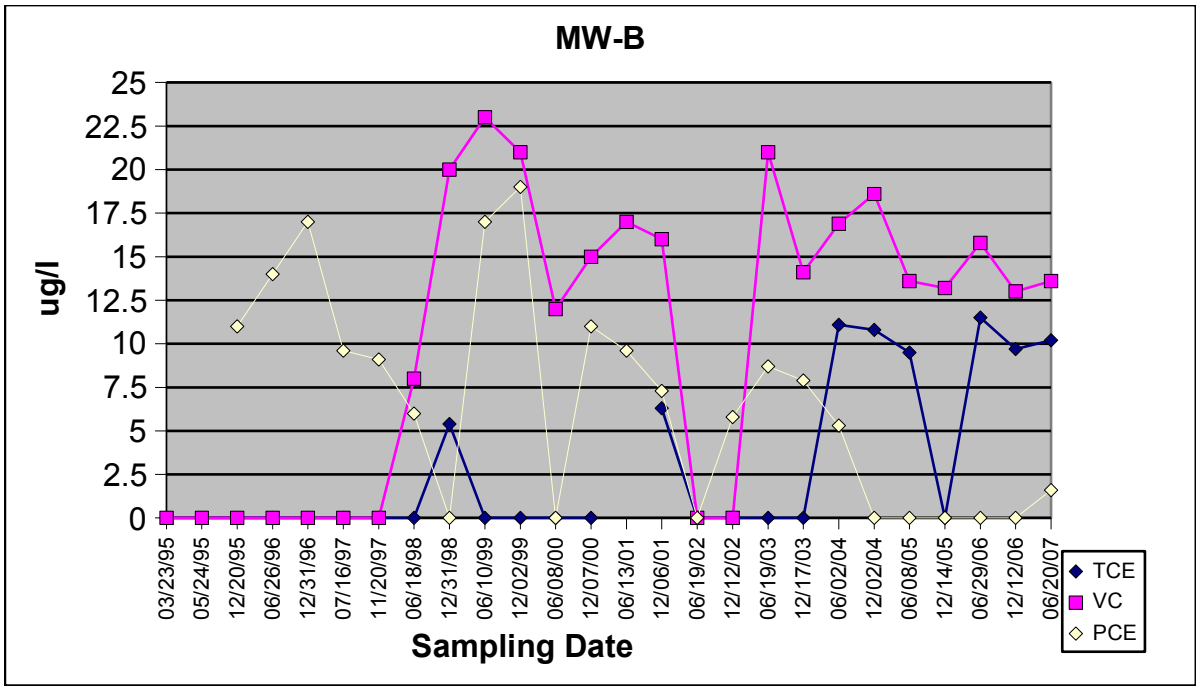
Monitoring Well	Hydraulic Conductivity (cm/sec)	Effective Porosity (%)	Hydraulic Gradient	Flow Rate (ft/yr)	Flow Direction	Water Table Depth (ft)	Water Table Elev. (ft)
MW-A	7.30E-04	20%	0.0081	31	N0W	25.45	24.8
MW-B	6.90E-04	20%	0.0038	13	N31W	24.15	25.62
MW-C	1.10E-04	20%	0.0024	1	N46W	20	25.58
MW-D	4.40E-04	20%	0.0196	45	N0W	27.14	21.17
MW-E	3.10E-03	20%	0.0034	55	N72W	26.65	21.21
MW-F	3.10E-03	20%	0.0085	136	N5W	30.58	18.91
MW-G	1.80E-03	20%	0.0028	26	N31W	24.15	25.95
MW-H	4.60E-03	20%	0.0061	144	N51W	27.6	17.86
MW-I	1.10E-03	20%	0.0035	20	N86W	29.8	18.2
MW-J	1.20E-03	20%	0.0020	12	N58W	27.01	19.25
MW-K	3.50E-03	20%	0.0028	51	N44W	28.47	20.34
MW-L	1.60E-04	20%	0.0015	1	N12W	24.53	21.88
MW-M	1.20E-03	20%	0.0044	27	N1W	23.19	24.58

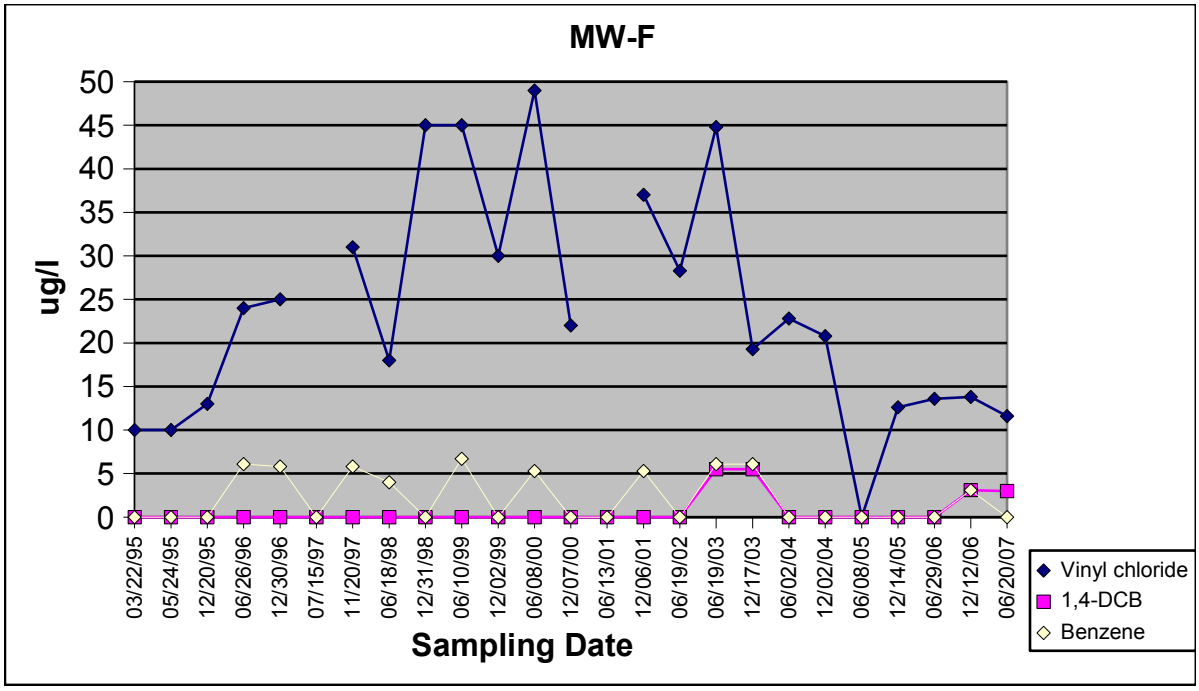
NOTE: Data for effective porosity & hydraulic conductivities obtained from GAI Consultants' Assessment Report (Feb. 1996)
Hydrologic Gradient taken from the June 20, 2007 sampling event.
Flow rate (Q) is defined by the equation:

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

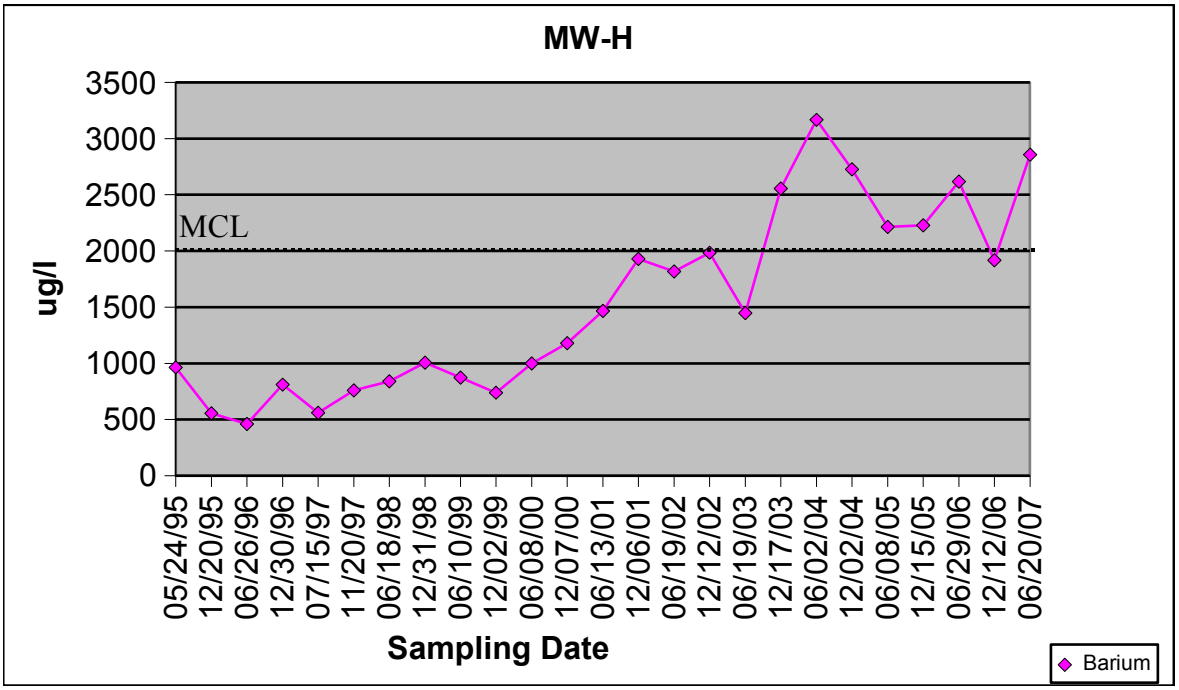
where
K = hydraulic conductivity
n_e = effective porosity
dh = head difference
dl = horizontal distance

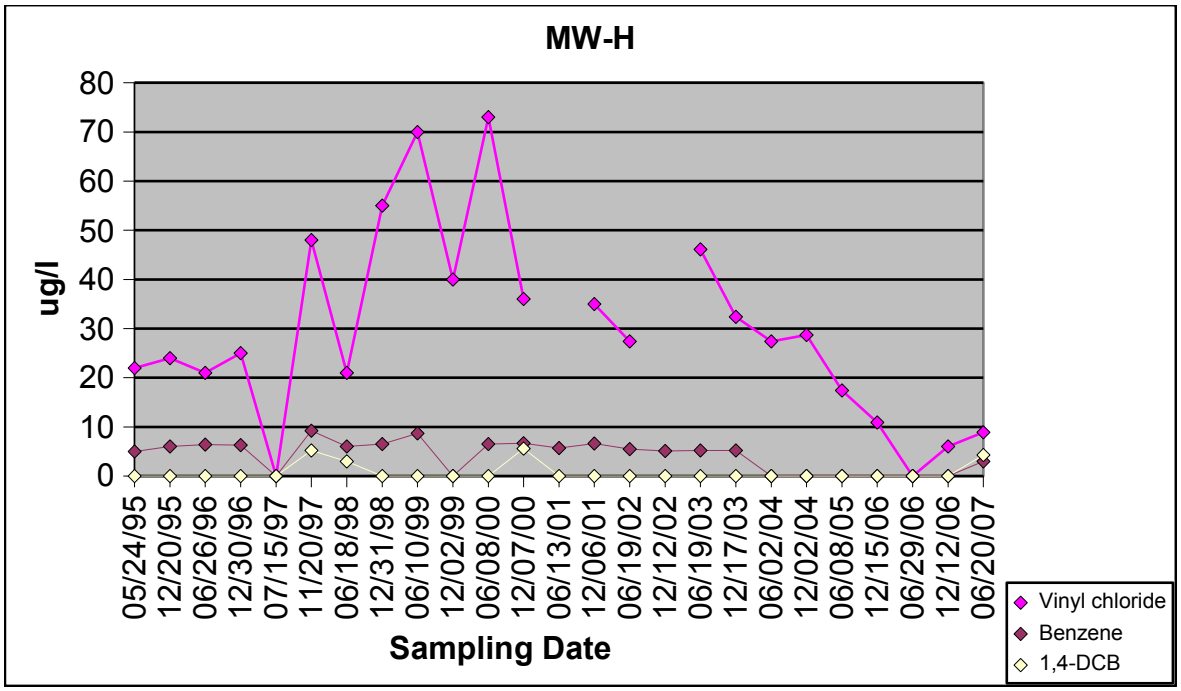
Time-Series Plot for VOC Exceedances
Hertford County Closed Landfill



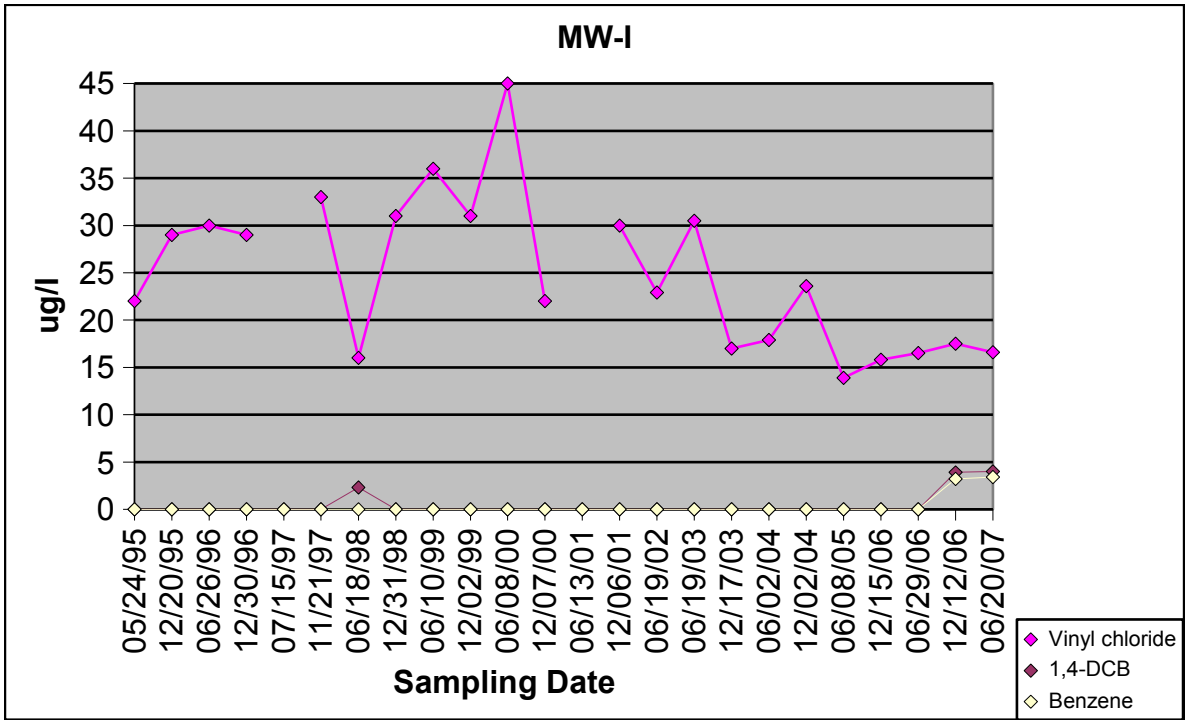


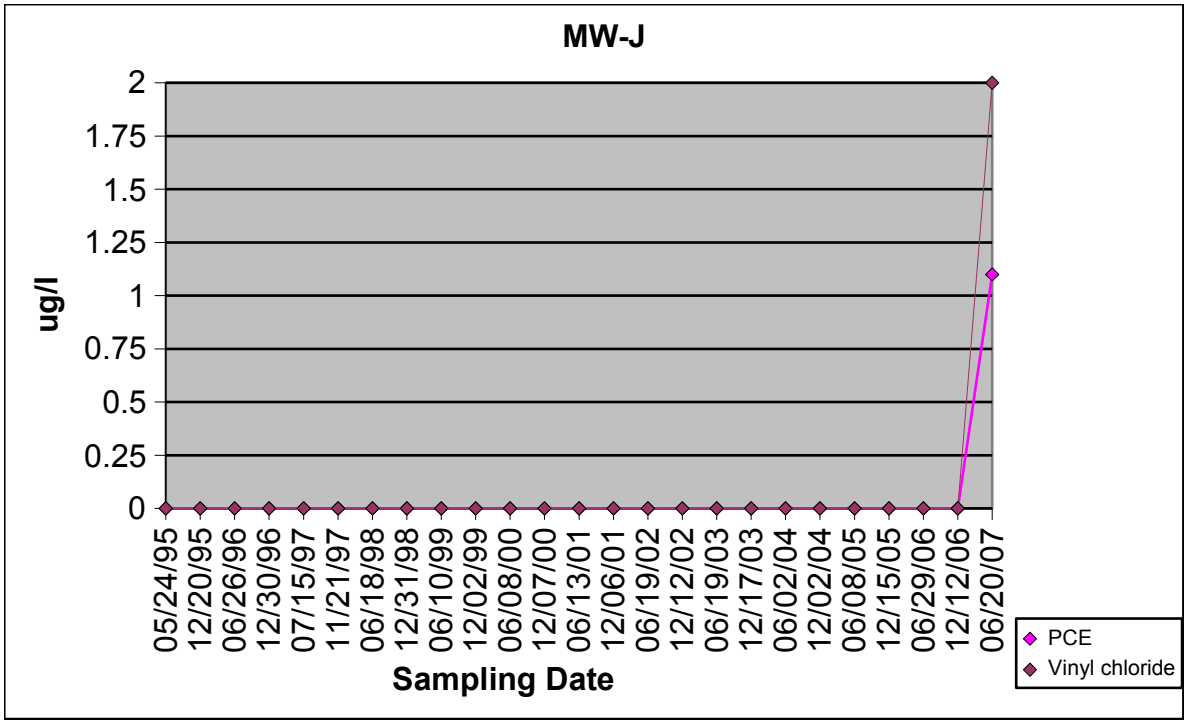
Time-Series Plot for Exceedances
Hertford County Closed Landfill



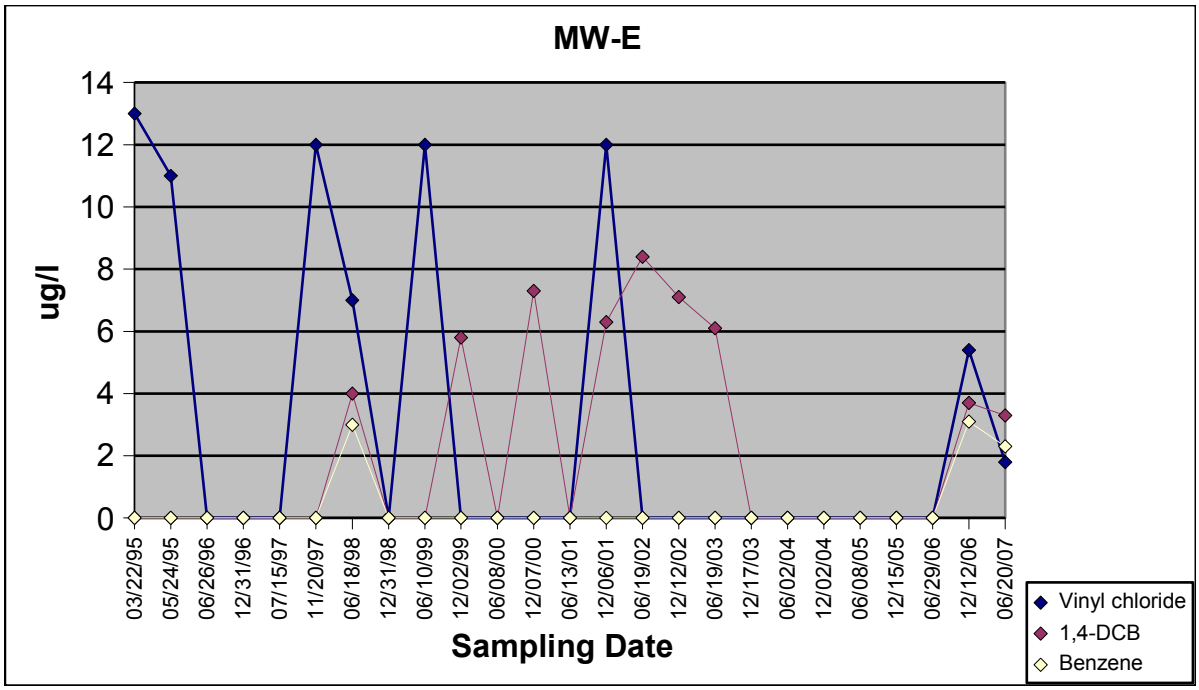


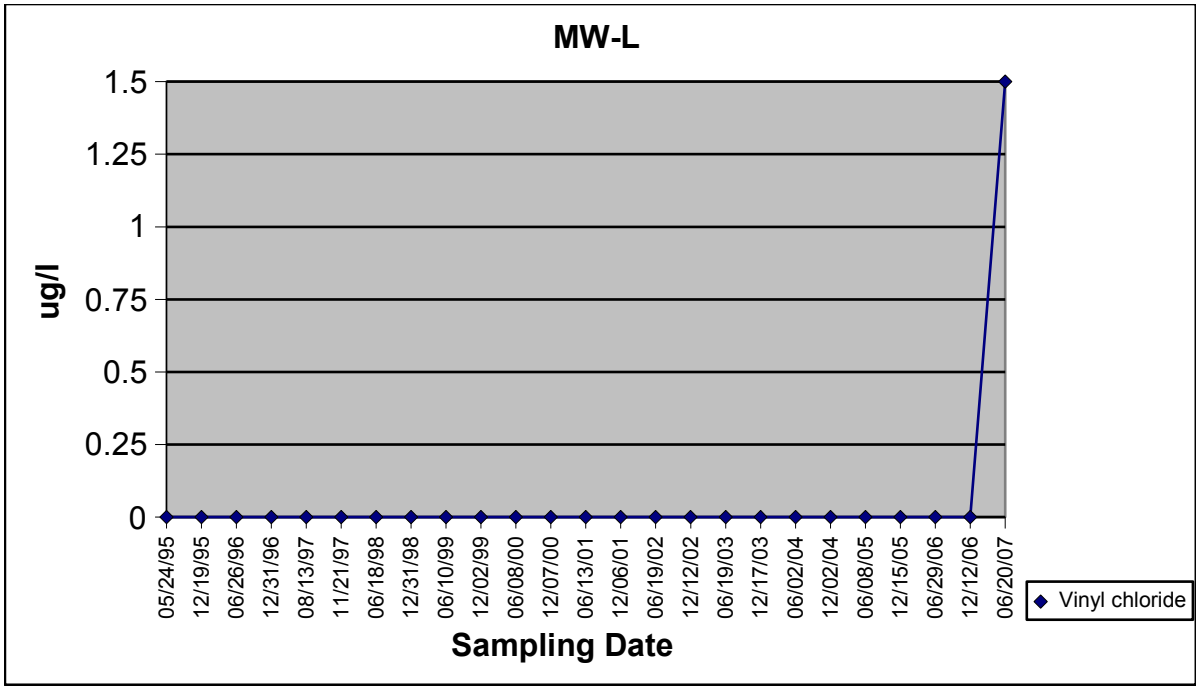
Time-Series Plot for VOC Exceedances
Hertford County Closed Landfill

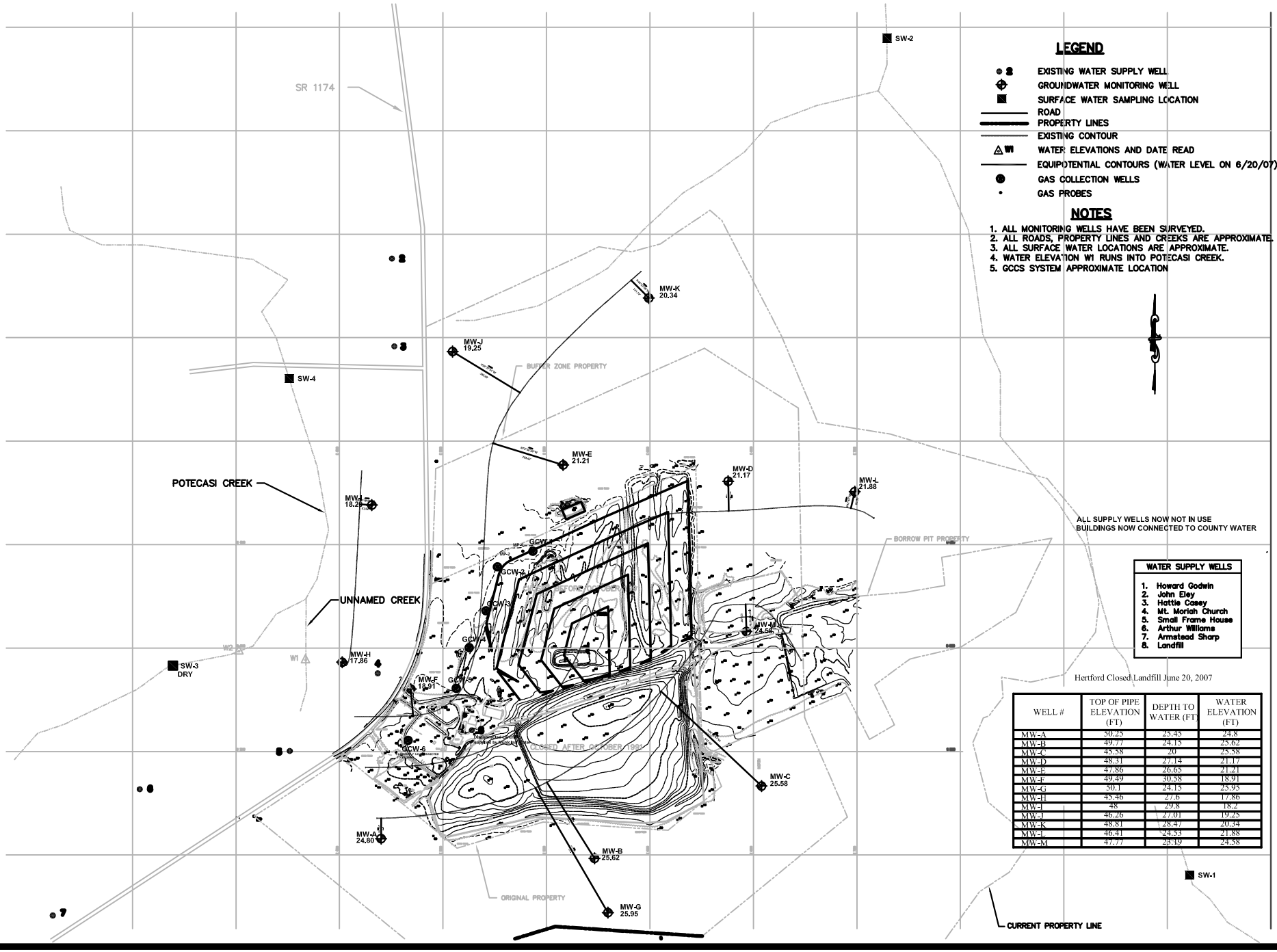




Time-Series Plot for VOC Exceedances
Hertford County Closed Landfill







LEGEND

- EXISTING WATER SUPPLY WELL
- GROUNDWATER MONITORING WELL
- SURFACE WATER SAMPLING LOCATION
- ROAD
- PROPERTY LINES
- EXISTING CONTOUR
- 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 June 20, 2007

WELL #	TOP OF PIPE ELEVATION (FT)	DEPTH TO WATER (FT)	WATER ELEVATION (FT)
MW-A	50.25	25.45	24.8
MW-B	49.77	24.15	25.62
MW-C	45.58	20	25.58
MW-D	48.31	27.14	21.17
MW-E	47.86	26.65	21.21
MW-F	49.49	30.58	18.91
MW-G	50.1	24.15	25.95
MW-H	45.46	27.6	17.86
MW-I	48	29.8	18.2
MW-J	46.26	27.01	19.25
MW-K	48.81	28.47	20.34
MW-L	46.41	24.53	21.88
MW-M	47.77	23.19	24.58

Municipal Services Engineering Company, P.A.

MUNICIPAL SOLID WASTE LANDFILL FACILITY
HERTFORD COUNTY
NORTH CAROLINA

SINGLE DAY POTENTIOMETRIC MAP
6/20/07

DATE | BY | REV. | DESCRIPTION

SCALE: 1" = 200'
DATE:
DRWN. BY: L. HAMPTON
CHKD. BY: E. 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 A

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

DATE COLLECTED: 06/20/07
DATE REPORTED : 07/20/07

REVIEWED BY:

PARAMETERS	MDL	SWSL	SW-1	SW-2	SW-3	SW-4	Analysis Date	Analyst	Method Code
PH (field measurement), Units			6.6	6.3	Missing	6.9	06/20/07	RJH	SM4500HB
Antimony, ug/l	0.05	6.0	--- U	--- U	Missing	--- U	06/27/07	RJH	EPA200.8
Arsenic, ug/l	0.47	10.0	3.0 J	1.6 J	Missing	1.2 J	06/27/07	LFJ	EPA200.8
Barium, ug/l	0.04	100.0	67.2 J	63.2 J	Missing	278	06/27/07	LFJ	EPA200.8
Beryllium, ug/l	0.08	1.0	--- U	--- U	Missing	0.1 J	06/27/07	LFJ	EPA200.8
Cadmium, ug/l	0.06	1.0	--- U	0.1 J	Missing	0.3 J	06/27/07	LFJ	EPA200.8
Cobalt, ug/l	0.41	10.0	6.4 J	3.5 J	Missing	9.2 J	06/27/07	LFJ	EPA200.8
Copper, ug/l	0.20	10.0	1.0 J	0.6 J	Missing	2.4 J	06/27/07	LFJ	EPA200.8
Total Chromium, ug/l	0.24	10.0	0.4 J	--- U	Missing	1.2 J	06/27/07	LFJ	EPA200.8
Lead, ug/l	0.07	10.0	3.0 J	0.5 J	Missing	2.5 J	06/27/07	LFJ	EPA200.8
Nickel, ug/l	0.66	50.0	1.4 J	0.8 J	Missing	3.3 J	06/27/07	LFJ	EPA200.8
Selenium, ug/l	0.35	10.0	--- U	--- U	Missing	0.8 J	06/27/07	LFJ	EPA200.8
Silver, ug/l	0.52	10.0	--- U	--- U	Missing	--- U	06/27/07	LFJ	EPA200.8
Thallium, ug/l	0.07	5.0	--- U	--- U	Missing	--- U	06/27/07	LFJ	EPA200.8
Vanadium, ug/l	0.42	25.0	5.9 J	2.2 J	Missing	4.3 J	06/27/07	LFJ	EPA200.8
Zinc, ug/l	0.20	10.0	5.2 J	3.0 J	Missing	12	06/27/07	LFJ	EPA200.8
Conductivity (at 25c), uMhos	1.0	1.0	108	97	Missing	436	06/20/07	RJH	SM2510B
Temperature, °C			22	22	Missing	24	06/20/07	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: 06/20/07
DATE ANALYZED: 06/29/07
DATE REPORTED: 07/20/07

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	SW-1	SW-2	SW-4
1. Chloromethane	0.18	1.0	0.20 J	--- 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	2.60 J	1.90 J	2.50 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	2.40 J	1.60 J	2.80 J
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	5.0	--- 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	1.0	--- 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	4.0	--- 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	1.0	--- 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	1.0	--- 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

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

Environment 1, Inc.
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858

Phone (252) 756-6208 • Fax (252) 756-0633

CHAIN OF CUSTODY RECORD

CLIENT: 6025 A **Week: 24**

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

(919) 772-5393

DISINFECTION
- [ ] CHLORINE
- [ ] UV
- [ ] NONE
- [ ] _____

																					CHLORINE NEUTRALIZED AT COLLECTION
																					pH CHECK (LAB)
																					CONTAINER TYPE, P/G
																					CHEMICAL PRESERVATION
																					PARAMETERS
SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field pH	Metals	Conductivity	Temperature	EPA 8260B	8260 Dup. 1										
						A	B	A	A	E	E										
SW-1	06 2007	1120		22	4	G	G	G	G	G	G										
SW-2	06 2007	1115		22	4	G	G	G	G	G	G										
SW-3					4																
SW-4	06 2007	1015		24	4	G	G	G	G	G	G										

PARAMETERS:
- A - NONE
- B - HNO_3
- C - H_2SO_4
- D - NAOH
- E - HCL
- F - ZINC ACETATE
- G - NA THIOSULFATE

CLASSIFICATION:
- [ ] WASTEWATER (NPDES)
- [ ] DRINKING WATER
- [ ] DWQ/GW
- [X] SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY
Y N

SAMPLES COLLECTED BY: (Please Print) H Igoe / Fox

SAMPLES RECEIVED IN LAB AT 2.6 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob H Igoe	06 2007 2:05	Amethyst Sadler	6/20/07 2:05
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:
SW3 DRY

Instructions for completing this form are on the reverse side.

Sampler must place a "C" for composite sample or a "G" for Grab sample in the blocks above for each parameter requested.

№ 151080

FORM #5

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: 06/20/07
DATE REPORTED : 07/20/07

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW-A	MW-B	MW-C	MW-D	MW-E	Analysis Date	Analyst	Method Code
PH (field measurement), Units			5.7	5.9	5.1	5.8	5.8	06/20/07	RJH	SM4500HB
Antimony, ug/l	0.05	6.0	--- U	--- U	--- U	--- U	--- U	06/27/07	LFJ	EPA200.8
Arsenic, ug/l	0.47	10.0	1.3 J	8.7 J	0.5 J	2.3 J	4.5 J	06/27/07	LFJ	EPA200.8
Barium, ug/l	0.04	100.0	150	164	78.4 J	167	151	06/27/07	LFJ	EPA200.8
Beryllium, ug/l	0.08	1.0	0.1 J	--- U	1.1	0.4 J	--- U	06/27/07	LFJ	EPA200.8
Cadmium, ug/l	0.06	1.0	0.1 J	--- U	--- U	0.1 J	--- U	06/27/07	LFJ	EPA200.8
Cobalt, ug/l	0.41	10.0	81	186	7.3 J	32	18	06/27/07	LFJ	EPA200.8
Copper, ug/l	0.20	10.0	0.9 J	1.8 J	0.9 J	3.9 J	4.6 J	06/27/07	LFJ	EPA200.8
Total Chromium, ug/l	0.24	10.0	0.3 J	0.6 J	--- U	6.6 J	--- U	06/27/07	LFJ	EPA200.8
Lead, ug/l	0.07	10.0	0.5 J	0.6 J	--- U	1.7 J	0.8 J	06/27/07	LFJ	EPA200.8
Mercury, ug/l	0.04	0.20	0.1 J	--- U	--- U	--- U	--- U	06/27/07	LFJ	EPA200.8
Nickel, ug/l	0.66	50.0	2.2 J	14 J	5.9 J	9.6 J	1.1 J	06/27/07	LFJ	EPA200.8
Selenium, ug/l	0.35	10.0	--- U	--- U	--- U	0.4 J	--- U	06/27/07	LFJ	EPA200.8
Silver, ug/l	0.52	10.0	--- U	--- U	--- U	--- U	--- U	06/27/07	LFJ	EPA200.8
Thallium, ug/l	0.07	5.0	--- U	--- U	--- U	--- U	--- U	06/27/07	LFJ	EPA200.8
Vanadium, ug/l	0.42	25.0	2.6 J	4.6 J	1.9 J	10.6 J	4.1 J	06/27/07	LFJ	EPA200.8
Zinc, ug/l	0.20	10.0	9.5 J	9.1 J	21	47	6.0 J	06/27/07	LFJ	EPA200.8
Conductivity (at 25c), uMhos	1.0	1.0	308	360	88	460	318	06/20/07	RJH	SM2510B
Temperature, °C			18	17	15	17	18	06/20/07	RJH	SM2550B
Static Water Level, feet			25.45	24.15	20.00	27.14	26.65	06/20/07	RJH	
Well Depth, feet			30.41	28.85	25.20	35.49	35.39	06/20/07	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: 06/20/07
DATE REPORTED : 07/20/07

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW-F	MW-G	MW-H	MW-I	MW-J	Analysis Date	Analyst	Method Code
PH (field measurement), Units			6.2	6.0	6.4	5.8	5.8	06/20/07	RJH	SM4500HB
Antimony, ug/l	0.05	6.0	--- U	--- U	--- U	--- U	--- U	06/27/07	LFJ	EPA200.8
Arsenic, ug/l	0.47	10.0	3.0 J	0.7 J	2.4 J	3.4 J	--- U	06/27/07	LFJ	EPA200.8
Barium, ug/l	0.04	100.0	518	132	2858	190	86.7 J	06/27/07	LFJ	EPA200.8
Beryllium, ug/l	0.08	1.0	--- U	--- U	--- U	--- U	0.2 J	06/27/07	LFJ	EPA200.8
Cadmium, ug/l	0.06	1.0	--- U	--- U	--- U	0.1 J	0.2 J	06/27/07	LFJ	EPA200.8
Cobalt, ug/l	0.41	10.0	80	5.7 J	575	44.4	11	06/27/07	LFJ	EPA200.8
Copper, ug/l	0.20	10.0	0.8 J	0.6 J	0.7 J	0.6 J	0.5 J	06/27/07	LFJ	EPA200.8
Total Chromium, ug/l	0.24	10.0	--- U	--- U	--- U	--- U	--- U	06/27/07	LFJ	EPA200.8
Lead, ug/l	0.07	10.0	--- U	0.2 J	--- U	--- U	0.1 J	06/27/07	LFJ	EPA200.8
Mercury, ug/l	0.04	0.20	--- U	--- U	--- U	--- U	--- U	06/27/07	LFJ	EPA200.8
Nickel, ug/l	0.66	50.0	7.4 J	8.5 J	57	7.3 J	5.4 J	06/27/07	LFJ	EPA200.8
Selenium, ug/l	0.35	10.0	--- U	--- U	--- U	--- U	--- U	06/27/07	LFJ	EPA200.8
Silver, ug/l	0.52	10.0	--- U	--- U	--- U	--- U	--- U	06/27/07	LFJ	EPA200.8
Thallium, ug/l	0.07	5.0	0.1 J	--- U	0.7 J	--- U	--- U	06/27/07	LFJ	EPA200.8
Vanadium, ug/l	0.42	25.0	1.2 J	1.3 J	1.4 J	1.3 J	1.6 J	06/27/07	LFJ	EPA200.8
Zinc, ug/l	0.20	10.0	3.8 J	21	9.7 J	33	13	06/27/07	LFJ	EPA200.8
Conductivity (at 25c), uMhos	1.0	1.0	888	338	969	447	224	06/20/07	RJH	SM2510B
Temperature, °C			18	17	17	17	17	06/20/07	RJH	SM2550B
Static Water Level, feet			30.58	24.15	27.60	29.80	27.01	06/20/07	RJH	
Well Depth, feet			35.28	39.65	37.11	36.47	38.45	06/20/07	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: 06/20/07
DATE REPORTED : 07/20/07

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW-K	MW-L	MW-M	Equipment Blank	Trip Blank	Analysis Date	Analyst	Method Code
PH (field measurement), Units			5.9	5.8	5.5			06/20/07	RJH	SM4500HB
Antimony, ug/l	0.05	6.0	0.1 J	--- U	--- U	--- U		06/27/07	RJH	EPA200.8
Arsenic, ug/l	0.47	10.0	0.5 J	1.9 J	0.6 J	--- U		06/27/07	LFJ	EPA200.8
Barium, ug/l	0.04	100.0	33.4 J	96.3 J	41.7 J	--- U		06/27/07	LFJ	EPA200.8
Beryllium, ug/l	0.08	1.0	--- U	0.1 J	0.2 J	--- U		06/27/07	LFJ	EPA200.8
Cadmium, ug/l	0.06	1.0	--- U	--- U	--- U	--- U		06/27/07	LFJ	EPA200.8
Cobalt, ug/l	0.41	10.0	--- U	134	--- U	--- U		06/27/07	LFJ	EPA200.8
Copper, ug/l	0.20	10.0	0.6 J	0.4 J	0.3 J	--- U		06/27/07	LFJ	EPA200.8
Total Chromium, ug/l	0.24	10.0	1.5 J	--- U	0.4 J	--- U		06/27/07	LFJ	EPA200.8
Lead, ug/l	0.07	10.0	--- U	--- U	--- U	--- U		06/27/07	LFJ	EPA200.8
Mercury, ug/l	0.04	0.20	--- U	--- U	--- U	--- U		06/27/07	LFJ	EPA200.8
Nickel, ug/l	0.66	50.0	1.8 J	8.1 J	1.3 J	--- U		06/27/07	LFJ	EPA200.8
Selenium, ug/l	0.35	10.0	--- U	--- U	0.5 J	--- U		06/27/07	LFJ	EPA200.8
Silver, ug/l	0.52	10.0	--- U	--- U	--- U	--- U		06/27/07	LFJ	EPA200.8
Thallium, ug/l	0.07	5.0	--- U	--- U	--- U	--- U		06/27/07	LFJ	EPA200.8
Vanadium, ug/l	0.42	25.0	2.1 J	1.7 J	1.5 J	0.8 J		06/27/07	LFJ	EPA200.8
Zinc, ug/l	0.20	10.0	4.0 J	18	4.6 J	2.5 J		06/27/07	LFJ	EPA200.8
Conductivity (at 25c), uMhos	1.0	1.0	149	293	81			06/20/07	RJH	SM2510B
Temperature, °C			16	18	18			06/20/07	RJH	SM2550B
Static Water Level, feet			28.47	24.53	23.19			06/20/07	RJH	
Well Depth, feet			42.92	35.19	39.83			06/20/07	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: 06/20/07
DATE REPORTED: 07/20/07

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	06/25/07 MW-A	06/25/07 MW-B	06/25/07 MW-C	06/29/07 MW-D	06/29/07 MW-E
Date Analyzed:							
1. Chloromethane	0.18	1.0	--- U	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.34	1.0	0.60 J	13.60	--- U	1.40	1.80
3. Bromomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.29	10.0	0.60 J	0.30 J	--- U	--- U	0.90 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	2.00 J	1.90 J	--- U	--- U	12.40 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	0.40 J	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.16	5.0	1.70 J	2.40 J	--- U	0.40 J	1.10 J
13. Vinyl Acetate	0.20	5.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	0.40 J	10.90	--- U	2.50 J	0.50 J
15. 2-Butanone	0.85	100.0	2.20 J	1.30 J	1.60 J	1.70 J	2.50 J
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	2.60	0.60 J	--- U	0.70 J	2.30
21. 1,2-Dichloroethane	0.12	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.13	1.0	--- U	10.20	--- U	0.30 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	--- U	0.30 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	5.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.16	1.0	--- U	1.60	--- U	0.30 J	--- U
31. 2-Hexanone	1.00	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.14	1.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.13	3.0	5.40	1.90 J	--- U	0.50 J	16.40
35. 1,1,1,2-Tetrachloroethane	0.14	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.16	1.0	--- U	0.30 J	--- U	--- U	--- U
37. Xylenes	0.48	4.0	--- 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	1.0	--- 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	1.30	--- U	--- U	0.50 J	3.30
44. 1,2-Dichlorobenzene	0.13	5.0	--- U	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.26	1.0	--- 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: 06/20/07
DATE REPORTED: 07/20/07

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	06/29/07 MW-F	06/29/07 MW-G	06/29/07 MW-H	06/29/07 MW-I	06/29/07 MW-J
Date Analyzed:			06/29/07	06/29/07	06/29/07	06/29/07	06/29/07
1. Chloromethane	0.18	1.0	--- U	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.34	1.0	11.60	1.20	8.90	16.60	2.00
3. Bromomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.29	10.0	0.90 J	--- U	1.50 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	1.60 J	--- 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	0.20 J	--- U	0.30 J
11. trans-1,2-Dichloroethene	0.13	5.0	0.40 J	--- U	0.30 J	0.20 J	--- U
12. 1,1-Dichloroethane	0.16	5.0	5.50	--- U	3.70 J	1.90 J	0.60 J
13. Vinyl Acetate	0.20	5.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	47.00	0.60 J	32.20	11.40	3.30 J
15. 2-Butanone	0.85	100.0	2.20 J	1.00 J	1.40 J	1.10 J	1.50 J
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	--- U	--- U	3.00	3.40	0.50 J
21. 1,2-Dichloroethane	0.12	1.0	0.50 J	--- U	--- U	--- U	--- U
22. Trichloroethene	0.13	1.0	1.60	0.60 J	0.60 J	0.30 J	0.50 J
23. 1,2-Dichloropropane	0.17	1.0	--- U	0.20 J	0.20 J	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	0.30 J	0.20 J	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	5.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.16	1.0	1.30	--- U	--- U	0.30 J	1.10
31. 2-Hexanone	1.00	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.14	1.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.13	3.0	13.20	--- U	15.60	19.40	0.50 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	4.0	--- 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	1.0	--- 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	3.00	4.30	4.30	4.00	--- U
44. 1,2-Dichlorobenzene	0.13	5.0	0.20 J	0.30 J	0.30 J	0.20 J	--- U
45. 1,2-Dibromo-3-Chloropropane	0.26	1.0	--- 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: 06/20/07
DATE REPORTED: 07/20/07

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	06/29/07 MW-K	06/29/07 MW-L	06/29/07 MW-M	06/29/07 Equipment Blank	06/29/07 Trip Blank
	Date Analyzed:						
1. Chloromethane	0.18	1.0	--- U	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.34	1.0	--- U	1.50	--- 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	1.60 J	1.40 J	--- U	1.90 J	1.60 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	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.16	5.0	--- U	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	--- U	2.60 J	--- U	--- U	--- U
15. 2-Butanone	0.85	100.0	2.00 J	1.60 J	1.00 J	--- U	--- U
16. Bromochloromethane	0.11	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.13	5.0	0.40 J	--- 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	--- U	0.80 J	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.12	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.13	1.0	--- U	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	0.20 J
28. trans-1,3-Dichloropropene	0.14	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.20	5.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.00	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.14	1.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.13	3.0	--- U	0.70 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	4.0	--- 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	1.0	--- 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	0.50 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	1.0	--- 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, Inc.
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858

Phone (252) 756-6208 • Fax (252) 756-0633

CHAIN OF CUSTODY RECORD

CLIENT: 6025 **Week: 24**

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

(919) 772-5393

DISINFECTION
- [ ] CHLORINE
- [ ] UV
- [ ] NONE
- [ ] _____

							L2				L2	L2	L2								
						P	P	P	P		G	G	G								
						A	B	A	A		E	E	E								
SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field pH	Metals	Conductivity	Temperature	Field Parameter	EPA 8260B	8260 Dup. 1	8260 Dup. 2								
MW-A 06	2007	0915		18	5	G	G	G	G	G	G	G	G								
MW-B 06	2007	0930		17	4	G	G	G	G	G	G	G									
MW-C 06	2007	0905		15	4	G	G	G	G	G	G	G									
MW-D 06	2007	1035		17	4	G	G	G	G	G	G	G									
MW-E 06	2007	1030		18	4	G	G	G	G	G	G	G									
MW-F 06	2007	1105		18	4	G	G	G	G	G	G	G									
MW-G 06	2007	0935		17 RTH	4	G	G	G	G	G	G	G									
MW-H 06	2007	0950		17	4	G	G	G	G	G	G	G									
MW-I 06	2007	1005		17	4	G	G	G	G	G	G	G									
MW-J 06	2007	1020		17	4	G	G	G	G	G	G	G									
MW-K 06	2007	1055		16	4	G	G	G	G	G	G	G									

PARAMETERS

CHLORINE NEUTRALIZED AT COLLECTION

pH CHECK (LAB)

CONTAINER TYPE, P/G

CHEMICAL PRESERVATION

A - NONE D - NAOH
B - HNO_3 E - HCL
C - H_2SO_4 F - ZINC ACETATE
G - NA THIOSULFATE

CLASSIFICATION:
- [ ] WASTEWATER (NPDES)
- [ ] DRINKING WATER
- [ ] DWQ/GW
- [X] SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY
Y N

SAMPLES COLLECTED BY: (Please Print) H Cage / Fot

SAMPLES RECEIVED IN LAB AT 2.6 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob H Cage 06	2007 2:05	[signature]	6/20/07 2:05
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

Instructions for completing this form are on the reverse side.

Sampler must place a "C" for composite sample or a "G" for Grab sample in the blocks above for each parameter requested.

FORM #5

№ 151082

Environment 1, Inc.
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858

Phone (252) 756-6208 • Fax (252) 756-0633

CHAIN OF CUSTODY RECORD

CLIENT: 6025 **Week: 24**

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

(919) 772-5393

DISINFECTION
- ☐ CHLORINE
- ☐ UV
- ☐ NONE
- ☐ _____

																					CHLORINE NEUTRALIZED AT COLLECTION
							L2				L2	L2	L2								pH CHECK (LAB)
						P	P	P	P		G	G	G								CONTAINER TYPE, P/G
						A	B	A	A		E	E	E								CHEMICAL PRESERVATION
SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field pH	Metals	Conductivity	Temperature	Field Parameter	EPA 8260B	8260 Dup. 1	8260 Dup. 2								PARAMETERS
MW-L 06	2007	1045		16	4	G	G	G	G	G	G	G									
MW-M 06	2007	0855		18	5	G	G	G	G	G	G	G	G								
Equipment Blank 06	2007				3		G				G	G									
Trip Blank					2																

A - NONE D - NAOH
B - HNO_3 E - HCL
C - H_2SO_4 F - ZINC ACETATE
G - NA THIOSULFATE

CLASSIFICATION:
- ☐ WASTEWATER (NPDES)
- ☐ DRINKING WATER
- ☐ DWQ/GW
- ☒ SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY
Y N

SAMPLES COLLECTED BY: (Please Print)
H Ogoe | Fot

SAMPLES RECEIVED IN LAB AT 2.6 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob H Ogoe 06	2007	Amethea Cadh	6/20/07 2:05
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

Instructions for completing this form are on the reverse side.

Sampler must place a "C" for composite sample or a "G" for Grab sample in the blocks above for each parameter requested.

FORM #5

№ 081