Semi-Annual Water Sampling and Analysis Report

Prepared for

Hertford County Closed Unlined MSWLF
Winton, North Carolina

June 2009

Permit Number: 46-01
MESCO Project Number: G090012.0

Completed on September 14, 2009

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

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

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

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

Instructions:

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

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 Unlined MSWLF	227 Mount Moriah Road Winton, NC 27986	46-01	.0500	June 11, 2009

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
9/14/09 — Date

Affix NC Licensed/ Professional Geologist Seal

P.O. BOX 97, Garner, NC 27529
Facility Representative Address

C-0281
NC PE Firm License Number (if applicable effective May 1, 2009)

Revised 6/2009

OPERATION/CONSTRUCTION MANAGERS

Municipal Services

CIVIL/SANITARY ENGINEERS

Engineering Company, P.A.

September 14, 2009

Mr. Ervin Lane
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 Semi Annual Report
Hertford County Closed Sanitary Landfill
Permit No. 46-01
MESCO Project No. G09012.0

Dear Mr. Lane:

Introduction

The Hertford County Closed Unlined MSWLF located near Winton NC, which operated under permit #46-01 is required to submit semi-annual compliance reports as a condition of 15A NCAC 13B .0500. This sampling event was conducted on June 11, 2009 according to the semi-annual monitoring schedule prescribed by the NC Solid Waste Section rules/regulations.

The assessment monitoring program currently consists of 13 groundwater and 4 surface water sampling locations. This report includes a summary of field procedures, laboratory analysis, tables and graphs of current/historical data, single-day potentiometric map with flow directions/rates, and the complete laboratory analytical report.

Sampling Procedure

Environment 1, Inc. (E1) of Greenville, NC performed both the collection of water samples and the laboratory analysis for this sampling event. Water samples were reportedly collected from all 13 groundwater monitoring wells (MW-A through MW-M) and all four surface waters (SW-1 through SW-4). All monitoring locations are shown upon the enclosed single-day potentiometric map.

All sampling was reported to be performed utilizing methodology outlined in the NCDENR *Solid Waste Section Guidelines for Groundwater, Soil, and Surface Water Sampling* revised April 2008. The depth to water in each well was gaged prior to purging to quantify the static water level and used to construct the attached potentiometric map. All of the collected samples were transported under proper chain of custody (C-O-C) within the specified hold times for each analysis. The required field parameters (pH, specific conductance, and temperature) were measured upon sample extraction.

Field and Laboratory Results

All of the groundwater samples were reportedly analyzed in the laboratory for the complete Appendix I list of volatile organic compounds (VOCs) per EPA 8260B and the complete Appendix I list of metals via EPA 200.8. In addition all of the samples were analyzed for mercury through method EPA 200.8. Quality control measures were also implemented which included submittal and subsequent quantification of a trip (TB) and equipment (EB) blanks.

PO Box 97, Garner, North Carolina 27529 (919) 772-5393
PO Box 828, Morehead City, NC 28557 (252) 726-9481 PO Box 349, Boone, North Carolina 28607 (828) 262-1767

The field parameters are included in the laboratory analysis report and the data appears to be generally consistent relative to each other and congruent with data historically reported. All water samples were analyzed utilizing the Method Detection Limits (MDL) with reference to the Solid Waste Section detection limits (SWSL) values current as of the sampling event. All detected constituents were referenced to the Groundwater Protection Standards (GWP) and compared to the North Carolina Groundwater Standards (2L) or the applicable North Carolina Surface Water Standards (2B) for regulatory exceedance. The results are shown in the enclosed tables titled "Detection Scan".

The following Table 1 summarizes all of the VOCs detected in groundwater samples above the SWSL or 2L.

Table 1. Groundwater and Surface Water Detection Summary (VOCs)

	Aromatics			**CAH's**					**Cumulative**
Well	Benzene	1,4-DCB	Chlorobenzene	PCE	TCE	EDC	cis-1,2-DCE	VCM	Total
2L Standard	1	1.4	50	0.7	2.8	0.38	70	0.15	-
MW-A	**1.2**	1	4					**0.8**[j]	7
MW-B(Upgradient)				**1.3**	**8.4**		8.2	**10.9**	28.8
MW-D								**1.2**	1.2
MW-E	**2.8**	**4.8**	23.7					**2.4**	33.7
MW-F	**3.5**	**4.1**	15.6	**1.1**	**2.1**	**0.6**[j]	59.3	**13.9**	99.6
MW-G(Upgradient)								**0.7**[j]	0.7
MW-H	**1**	**1.4**	5.6				8.3	**2.3**	18.6
MW-I	**3.6**	**4.5**	20.1				9.2	**14.7**	52.1
MW-J								**2.2**	2.2
MW-L								**1.5**	1.5
Total	12.10	15.8	69	2.4	10.5	0.6	85	50.6	245.4

BOLD indicates detected in exceedance of NCGW2L Standard. *Italicized* indicates found above own respective historical identified range. "j" <SWSL therefore estimated concentration
All concentrations in (uq/L)

VOCs in concentrations in exceedance of their respective 2L Standard were detected in the samples obtained from all of the monitoring wells with the exception of MW-C and MW-K. The additional numbers of low level VOC detections during the latest four events is attributed to the reduction of the reporting limits to the MDL and should not be misconstrued as a recent release. All of the monitoring locations that were found to contain VOCs contained either a mixture of both dissolved phase aromatic hydrocarbons and chlorinated aliphatic hydrocarbons (CAH) or only the CAH, vinyl chloride. All VOCs detected from groundwater samples have previously been detected at their respective location and none were found in concentrations above their respective historically identified range. The often final biodegradation byproduct vinyl chloride continues to be the most prevalent VOC detected upon the site with the parameter found above the 2L within all of the wells containing quantifiable VOCs. Generally all of the detected VOCs are not grossly elevated, typical of contaminants commonly found in groundwater at MSWLF facilities. Natural attenuation is apparent as evidenced by the decrease in parent compounds and an increase in intermediate and daughter products over time.

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 appears to have reduced the lateral migration of landfill gas (LFG) as evidenced by the reported reduction of methane gas detected within MW-F and methane probes west of the property boundary. By decreasing the lateral migration of LFG, the VOC concentrations within the groundwater of the upper aquifer may also decrease over time along the western property boundary.

Table 2 depicts all constituents detected within the surface waters in concentrations above the applicable 2B Standard for a Class C water.

Table 2. Surface Water Exceedance Summary (VOCs and Total Metals)

Surface Water	Copper	Thallium	Zinc	VCM
2B Standard	7	0.47	50	2.4
SW-3 (Upstream)		0.8[j]	59	2.6
SW-4	7.2[j]			
Total	7.2	0.8	59	2.6

Italicized indicates found above own respective historical identified range. "j" <SWSL therefore estimated concentration
All concentrations in (uq/L)

Metals in concentrations above the SWSL were detected within all of the monitoring locations with the exception of MW-C, MW-K, and surface waters SW-1 and SW-2. Based upon laboratory data available dating back to 1995 this is the first event that no metals were detected from groundwater samples in concentrations in exceedance of the 2L Standard.

Water samples obtained from SW-3, located upstream of the facility on Potecasi Creek, were found to contain concentrations of the metals thallium and zinc in addition to the VOC vinyl chloride in concentrations in exceedance of the applicable 2B Standard. The sample taken from surface water point SW-4, located downstream of the facility, and SW-3, contained copper in a concentration above the applicable 2B Action Level (AL) Standard. The concentration of copper detected within the SW-4 sample was reported as an estimated concentration between the MDL and the SWSL ("j" qualifier).

Groundwater and Surface Water Characterization

MESCO completed and enclosed the single-day potentiometric map from groundwater elevation data obtained by E1 during this event. Groundwater flow within the surficial aquifer continues to be in a general northwest direction. Flow rates were also calculated based upon the equipotential contours and are included in the attached table. The flow direction was calculated to be in a general north/northwest direction towards Potecasi Creek with flow rates that ranged from approximately 1ft./yr. (MW-C & MW-J) to 159 ft./yr. (MW-H) averaging approximately 29 ft./yr. The flow directions and gradients are consistent with historical observations, showing no changes that would result in a different interpretation of the groundwater system or hinder the effectiveness of the current monitoring network.

Conclusion

The results of the latest semi-annual sampling event indicate that VOCs continue to persist within the surficial aquifer up, down, and cross gradient from the closed MSWLF. Due to the reduction of detection limits, low levels of VOCs have now been detected further from the waste boundary than previously reported. 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 lack of VOCs detected within all surface water samples downstream of the landfill. The facility is located in a rural setting and the residents in closest proximity to the property boundary are now connected to municipal water which should effectively limit the potential of human exposure to the groundwater.

The Hertford County Closed Landfill will continue to be monitored and is scheduled to be sampled for the Appendix I list of parameters again in December 2009. The active GCCS will continue operation and any effect it may have on the groundwater quality will continue to be evaluated. 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, NCSW2B, or NCGW2L
Hertford County Closed Unlined MSWLF

Sample ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [2]	SWSL [3]	2L [4]	2B [5]	GWP [6]	Exceedance	Preliminary Cause
MW-A	1,4-Dichlorobenzene	6/11/09	1	ug/l	0.21	1	1.4				
MW-A	Barium	6/11/09	132	ug/l	0.04	100	2000				
MW-A	**Benzene**	**6/11/09**	**1.2**	**ug/l**	**0.16**	**1.0**	**1**			**0.2**	**Leachate &/or LFG**
MW-A	Chlorobenzene	6/11/09	4	ug/l	0.13	3	50				
MW-A	**Cobalt**	**6/11/09**	**116**	**ug/l**	**0.02**	**10.0**			**70**	**46**	**Natural**
MW-A	**Vinyl Chloride**	**6/11/09**	**0.8[j]**	**ug/l**	**0.34**	**1.0**	**0.015**			**0.785**	**Leachate &/or LFG**
MW-A	Zinc	6/11/09	20	ug/l	0.14	10	1050				
MW-B	Barium	6/11/09	123	ug/l	0.04	100	2000				
MW-B	Cis-1,2-Dichloroethene	6/11/09	8.2	ug/l	0.14	5	70				
MW-B	Cobalt	6/11/09	63	ug/l	0.02	10			70		
MW-B	**Tetrachloroethene**	**6/11/09**	**1.3**	**ug/l**	**0.16**	**1.0**	**0.7**			**0.6**	**Leachate &/or LFG**
MW-B	**Trichloroethene**	**6/11/09**	**8.4**	**ug/l**	**0.13**	**1.0**	**2.8**			**5.6**	**Leachate &/or LFG**
MW-B	**Vinyl Chloride**	**6/11/09**	**10.9**	**ug/l**	**0.34**	**1.0**	**0.015**			**10.885**	**Leachate &/or LFG**
MW-B	Zinc	6/11/09	14	ug/l	0.14	10	1050				
MW-C	Beryllium	6/11/09	1	ug/l	0.06	1			4		
MW-C	Zinc	6/11/09	32	ug/l	0.14	10	1050				
MW-D	Barium	6/11/09	142	ug/l	0.04	100	2000				
MW-D	Cobalt	6/11/09	46	ug/l	0.02	10			70		
MW-D	**Vinyl Chloride**	**6/11/09**	**1.2**	**ug/l**	**0.34**	**1.0**	**0.015**			**1.185**	**Leachate &/or LFG**
MW-D	Zinc	6/11/09	49	ug/l	0.14	10	1050				
MW-E	**1,4-Dichlorobenzene**	**6/11/09**	**4.8**	**ug/l**	**0.21**	**1.0**	**1.4**			**3.4**	**Leachate &/or LFG**
MW-E	Arsenic	6/11/09	10	ug/l	0.17	10	50				
MW-E	Barium	6/11/09	119	ug/l	0.04	100	2000				
MW-E	**Benzene**	**6/11/09**	**2.8**	**ug/l**	**0.16**	**1.0**	**1**			**1.8**	**Leachate &/or LFG**
MW-E	Chlorobenzene	6/11/09	23.7	ug/l	0.13	3	50				
MW-E	**Cobalt**	**6/11/09**	**90**	**ug/l**	**0.02**	**10.0**			**70**	**20**	**Natural**
MW-E	**Vinyl Chloride**	**6/11/09**	**2.4**	**ug/l**	**0.34**	**1.0**	**0.015**			**2.385**	**Leachate &/or LFG**
MW-E	Zinc	6/11/09	17	ug/l	0.14	10	1050				
MW-F	1,1-Dichloroethane	6/11/09	5.1	ug/l	0.16	5	70				
MW-F	**1,2-Dichloroethane**	**6/11/09**	**0.6[j]**	**ug/l**	**0.12**	**1.0**	**0.38**			**0.22**	**Leachate &/or LFG**
MW-F	**1,4-Dichlorobenzene**	**6/11/09**	**4.1**	**ug/l**	**0.21**	**1.0**	**1.4**			**2.7**	**Leachate &/or LFG**
MW-F	Barium	6/11/09	531	ug/l	0.04	100	2000				
MW-F	**Benzene**	**6/11/09**	**3.5**	**ug/l**	**0.16**	**1.0**	**1**			**2.5**	**Leachate &/or LFG**
MW-F	Chlorobenzene	6/11/09	15.6	ug/l	0.13	3	50				
MW-F	Cis-1,2-Dichloroethene	6/11/09	59.3	ug/l	0.14	5	70				
MW-F	**Cobalt**	**6/11/09**	**182**	**ug/l**	**0.02**	**10.0**			**70**	**112**	**Natural**
MW-F	**Tetrachloroethene**	**6/11/09**	**1.1**	**ug/l**	**0.16**	**1.0**	**0.7**			**0.4**	**Leachate &/or LFG**
MW-F	Trichloroethene	6/11/09	2.1	ug/l	0.13	1	2.8				
MW-F	**Vinyl Chloride**	**6/11/09**	**13.9**	**ug/l**	**0.34**	**1.0**	**0.015**			**13.885**	**Leachate &/or LFG**
MW-G	Barium	6/11/09	154	ug/l	0.04	100	2000				
MW-G	**Vanadium**	**6/11/09**	**9.9[j]**	**ug/l**	**0.28**	**25.0**			**3.5**	**6.4**	**Natural**
MW-G	**Vinyl Chloride**	**6/11/09**	**0.7[j]**	**ug/l**	**0.34**	**1.0**	**0.015**			**0.685**	**Leachate &/or LFG**
MW-G	Zinc	6/11/09	52	ug/l	0.14	10	1050				

Sample ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [2]	SWSL [3]	2L [4]	2B [5]	GWP [6]	Exceedance	Preliminary Cause
MW-H	1,4-Dichlorobenzene	6/11/09	1.4	ug/l	0.21	1	1.4				
MW-H	Barium	6/11/09	1804	ug/l	0.04	100	2000				
MW-H	**Benzene**	**6/11/09**	**1**	**ug/l**	**0.16**	**1**	**1**			**0**	**Leachate &/or LFG**
MW-H	Chlorobenzene	6/11/09	5.6	ug/l	0.13	3	50				
MW-H	Cis-1,2-Dichloroethene	6/11/09	8.3	ug/l	0.14	5	70				
MW-H	**Cobalt**	**6/11/09**	**332**	**ug/l**	**0.02**	**10.0**			**70**	**262**	**Natural**
MW-H	**Thallium**	**6/11/09**	**0.8[j]**	**ug/l**	**0.03**	**5.0**			**0.28**	**0.52**	**Natural**
MW-H	**Vinyl Chloride**	**6/11/09**	**2.3**	**ug/l**	**0.34**	**1.0**	**0.015**			**2.285**	**Leachate &/or LFG**
MW-I	**1,4-Dichlorobenzene**	**6/11/09**	**4.5**	**ug/l**	**0.21**	**1.0**	**1.4**			**3.1**	**Leachate &/or LFG**
MW-I	Barium	6/11/09	238	ug/l	0.04	100	2000				
MW-I	**Benzene**	**6/11/09**	**3.6**	**ug/l**	**0.16**	**1.0**	**1**			**2.6**	**Leachate &/or LFG**
MW-I	Chlorobenzene	6/11/09	20.1	ug/l	0.13	3	50				
MW-I	Cis-1,2-Dichloroethene	6/11/09	9.2	ug/l	0.14	5	70				
MW-I	Cobalt	6/11/09	56	ug/l	0.02	10			70		
MW-I	Mercury	6/11/09	0.64	ug/l	0.03	0.2	1.1				
MW-I	**Vinyl Chloride**	**6/11/09**	**14.7**	**ug/l**	**0.34**	**1.0**	**0.015**			**14.685**	**Leachate &/or LFG**
MW-I	Zinc	6/11/09	72	ug/l	0.14	10	1050				
MW-J	Cobalt	6/11/09	11.5	ug/l	0.02	10			70		
MW-J	**Vinyl Chloride**	**6/11/09**	**2.2**	**ug/l**	**0.34**	**1.0**	**0.015**			**2.185**	**Leachate &/or LFG**
MW-J	Zinc	6/11/09	19	ug/l	0.14	10	1050				
MW-L	Cobalt	6/11/09	59.7	ug/l	0.02	10			70		
MW-L	**Vinyl Chloride**	**6/11/09**	**1.5**	**ug/l**	**0.34**	**1.0**	**0.015**			**1.485**	**Leachate &/or LFG**
MW-L	Zinc	6/11/09	22	ug/l	0.14	10	1050				
MW-M	Mercury	6/11/09	0.25	ug/l	0.03	0.2	1.1				
MW-M	Zinc	6/11/09	11	ug/l	0.14	10	1050				
SW-3	1,4-Dichlorobenzene	6/11/09	2	ug/l	0.21	1		100			
SW-3	Barium	6/11/09	1504	ug/l	0.04	100		20000			
SW-3	Chlorobenzene	6/11/09	7.2	ug/l	0.13	3		140			
SW-3	Cis-1,2-Dichloroethene	6/11/09	7.7	ug/l	0.14	5		4900			
SW-3	**Cobalt**	**6/11/09**	**313**	**ug/l**	**0.02**	**10.0**		**270**		**43**	**Offsite Upstream**
SW-3	Nickel	6/11/09	56	ug/l	0.04	50		88			
SW-3	**Thallium**	**6/11/09**	**0.8[j]**	**ug/l**	**0.03**	**5.0**		**0.47**		**0.33**	**Offsite Upstream**
SW-3	**Vinyl Chloride**	**6/11/09**	**2.6**	**ug/l**	**0.34**	**1.0**		**2.4**		**0.2**	**Offsite Upstream**
SW-3	**Zinc**	**6/11/09**	**59**	**ug/l**	**0.14**	**10.0**		**50**		**9**	**Offsite Upstream**
SW-4	Barium	6/11/09	807	ug/l	0.04	100		20000			
SW-4	Cobalt	6/11/09	42	ug/l	0.02	10		270			
SW-4	**Copper**	**6/11/09**	**7.2[j]**	**ug/l**	**0.04**	**10.0**		**7**		**0.2**	**Natural**
SW-4	Zinc	6/11/09	45	ug/l	0.14	10		50			

[1] Table only contains detected constituents detected above the SWSL, GWP, NCGW2L or NCSW2B Standards
[2] MDL = Method Detection Limit
[3] SWSL = Solid Waste Section Reporting Limit (Current as of Sampling Event)
[4] 2L = North Carolina Ground Water 2L Standard (Current as of Sampling Event)
[5] 2B = North Carolina Surface Water 2B Standard for Specific Stream Classification (Current as of Sampling Event)
[6] GWP = Groundwater Protection Standard (Current as of Sampling Event)
[J] =The reported value is estimated & between the laboratory MDL & the SWSL, adjusted for actual sample preparation data and moisture content.
LFG = Landfill Gas
NE = Not Established
BOLD = Concentration => the applicable GWP, 2L, or 2B Standard (Current as of Sampling Event)

Detection Scan All Detections Reported by Laboratory >MDL
Hertford County Closed Unlined MSWLF

Sample ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [2]	SWSL [3]	2L [4]	2B [5]	GWP [6]	Exceedance	Preliminary Cause
MW-A	1,1-Dichloroethane	6/11/09	0.8	ug/l	0.16	5.0	70				
MW-A	1,4-Dichlorobenzene	6/11/09	1	ug/l	0.21	1.0	1.4				
MW-A	Antimony	6/11/09	0.1	ug/l	0.06	6.0			1.4		
MW-A	Arsenic	6/11/09	3.3	ug/l	0.17	10.0	50				
MW-A	Barium	6/11/09	132	ug/l	0.04	100.0	2000				
MW-A	**Benzene**	**6/11/09**	**1.2**	**ug/l**	**0.16**	**1.0**	**1**			**0.2**	**Leachate &/or LFG**
MW-A	Beryllium	6/11/09	0.1	ug/l	0.06	1.0			4		
MW-A	Cadmium	6/11/09	0.2	ug/l	0.04	1.0	1.75				
MW-A	Chlorobenzene	6/11/09	4	ug/l	0.13	3.0	50				
MW-A	Chloroethane	6/11/09	0.4	ug/l	0.29	10.0	2800				
MW-A	Chromium	6/11/09	1.7	ug/l	0.10	10.0	50				
MW-A	Cis-1,2-Dichloroethene	6/11/09	0.6	ug/l	0.14	5.0	70				
MW-A	**Cobalt**	**6/11/09**	**116**	**ug/l**	**0.02**	**10.0**			**70**	**46**	**Natural**
MW-A	Copper	6/11/09	1.8	ug/l	0.04	10.0	1000				
MW-A	Lead	6/11/09	1	ug/l	0.04	10.0	15				
MW-A	Mercury	6/11/09	0.12	ug/l	0.03	0.20	1.1				
MW-A	Nickel	6/11/09	4.1	ug/l	0.04	50.0	100				
MW-A	Selenium	6/11/09	0.3	ug/l	0.12	10.0	50				
MW-A	Vanadium	6/11/09	2.3	ug/l	0.28	25.0			3.5		
MW-A	**Vinyl Chloride**	**6/11/09**	**0.8[j]**	**ug/l**	**0.34**	**1.0**	**0.015**			**0.785**	**Leachate &/or LFG**
MW-A	Zinc	6/11/09	20	ug/l	0.14	10.0	1050				
MW-B	1,1-Dichloroethane	6/11/09	1.6	ug/l	0.16	5.0	70				
MW-B	1,1-Dichloroethene	6/11/09	0.2	ug/l	0.14	5.0	7				
MW-B	Acetone	6/11/09	1.7	ug/l	1.21	100.0	700				
MW-B	Antimony	6/11/09	0.1	ug/l	0.06	6.0			1.4		
MW-B	Arsenic	6/11/09	9	ug/l	0.17	10.0	50				
MW-B	Barium	6/11/09	123	ug/l	0.04	100.0	2000				
MW-B	Benzene	6/11/09	0.5	ug/l	0.16	1.0	1				
MW-B	Beryllium	6/11/09	0.2	ug/l	0.06	1.0			4		
MW-B	Cadmium	6/11/09	0.1	ug/l	0.04	1.0	1.75				
MW-B	Chlorobenzene	6/11/09	1.7	ug/l	0.13	3.0	50				
MW-B	Chloroethane	6/11/09	0.3	ug/l	0.29	10.0	2800				
MW-B	Chromium	6/11/09	0.6	ug/l	0.10	10.0	50				
MW-B	Cis-1,2-Dichloroethene	6/11/09	8.2	ug/l	0.14	5.0	70				
MW-B	Cobalt	6/11/09	63	ug/l	0.02	10.0			70		
MW-B	Copper	6/11/09	1.1	ug/l	0.04	10.0	1000				
MW-B	Lead	6/11/09	0.3	ug/l	0.04	10.0	15				
MW-B	Mercury	6/11/09	0.07	ug/l	0.03	0.20	1.1				
MW-B	Nickel	6/11/09	12.6	ug/l	0.04	50.0	100				
MW-B	Selenium	6/11/09	0.3	ug/l	0.12	10.0	50				
MW-B	Silver	6/11/09	0.1	ug/l	0.04	10.0	18				
MW-B	**Tetrachloroethene**	**6/11/09**	**1.3**	**ug/l**	**0.16**	**1.0**	**0.7**			**0.6**	**Leachate &/or LFG**
MW-B	Thallium	6/11/09	0.1	ug/l	0.03	5.0			0.28		
MW-B	trans-1,2-Dichloroethene	6/11/09	0.3	ug/l	0.13	5.0	100				
MW-B	**Trichloroethene**	**6/11/09**	**8.4**	**ug/l**	**0.13**	**1.0**	**2.8**			**5.6**	**Leachate &/or LFG**
MW-B	Vanadium	6/11/09	1.8	ug/l	0.28	25.0			3.5		
MW-B	**Vinyl Chloride**	**6/11/09**	**10.9**	**ug/l**	**0.34**	**1.0**	**0.015**			**10.885**	**Leachate &/or LFG**
MW-B	Zinc	6/11/09	14	ug/l	0.14	10.0	1050				

Sample ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [2]	SWSL [3]	2L [4]	2B [5]	GWP [6]	Exceedance	Preliminary Cause
MW-C	Acetone	6/11/09	7.4	ug/l	1.21	100.0	700				
MW-C	Barium	6/11/09	85.2	ug/l	0.04	100.0	2000				
MW-C	Beryllium	6/11/09	1	ug/l	0.06	1.0			4		
MW-C	Cadmium	6/11/09	0.1	ug/l	0.04	1.0	1.75				
MW-C	Chloromethane	6/11/09	0.4	ug/l	0.18	1.0	2.6				
MW-C	Chromium	6/11/09	0.4	ug/l	0.10	10.0	50				
MW-C	Cobalt	6/11/09	7.8	ug/l	0.02	10.0			70		
MW-C	Copper	6/11/09	1.1	ug/l	0.04	10.0	1000				
MW-C	Lead	6/11/09	0.3	ug/l	0.04	10.0	15				
MW-C	Nickel	6/11/09	6.2	ug/l	0.04	50.0	100				
MW-C	Selenium	6/11/09	0.4	ug/l	0.12	10.0	50				
MW-C	Vanadium	6/11/09	1.8	ug/l	0.28	25.0			3.5		
MW-C	Zinc	6/11/09	32	ug/l	0.14	10.0	1050				
MW-D	1,4-Dichlorobenzene	6/11/09	0.5	ug/l	0.21	1.0	1.4				
MW-D	Acetone	6/11/09	1.5	ug/l	1.21	100.0	700				
MW-D	Arsenic	6/11/09	1.8	ug/l	0.17	10.0	50				
MW-D	Barium	6/11/09	142	ug/l	0.04	100.0	2000				
MW-D	Benzene	6/11/09	0.7	ug/l	0.16	1.0	1				
MW-D	Beryllium	6/11/09	0.1	ug/l	0.06	1.0			4		
MW-D	Cadmium	6/11/09	0.2	ug/l	0.04	1.0	1.75				
MW-D	Chlorobenzene	6/11/09	0.6	ug/l	0.13	3.0	50				
MW-D	Chromium	6/11/09	0.8	ug/l	0.10	10.0	50				
MW-D	Cis-1,2-Dichloroethene	6/11/09	2.3	ug/l	0.14	5.0	70				
MW-D	Cobalt	6/11/09	46	ug/l	0.02	10.0			70		
MW-D	Copper	6/11/09	1.5	ug/l	0.04	10.0	1000				
MW-D	Lead	6/11/09	0.3	ug/l	0.04	10.0	15				
MW-D	Nickel	6/11/09	7.4	ug/l	0.04	50.0	100				
MW-D	Selenium	6/11/09	0.7	ug/l	0.12	10.0	50				
MW-D	Tetrachloroethene	6/11/09	0.3	ug/l	0.16	1.0	0.7				
MW-D	Trichloroethene	6/11/09	0.3	ug/l	0.13	1.0	2.8				
MW-D	Vanadium	6/11/09	2.3	ug/l	0.28	25.0			3.5		
MW-D	**Vinyl Chloride**	**6/11/09**	**1.2**	**ug/l**	**0.34**	**1.0**	**0.015**			**1.185**	**Leachate &/or LFG**
MW-D	Zinc	6/11/09	49	ug/l	0.14	10.0	1050				
MW-E	1,1-Dichloroethane	6/11/09	1	ug/l	0.16	5.0	70				
MW-E	**1,4-Dichlorobenzene**	**6/11/09**	**4.8**	**ug/l**	**0.21**	**1.0**	**1.4**			**3.4**	**Leachate &/or LFG**
MW-E	Acetone	6/11/09	1.9	ug/l	1.21	100.0	700				
MW-E	Antimony	6/11/09	0.1	ug/l	0.06	6.0			1.4		
MW-E	Arsenic	6/11/09	10	ug/l	0.17	10.0	50				
MW-E	Barium	6/11/09	119	ug/l	0.04	100.0	2000				
MW-E	**Benzene**	**6/11/09**	**2.8**	**ug/l**	**0.16**	**1.0**	**1**			**1.8**	**Leachate &/or LFG**
MW-E	Beryllium	6/11/09	0.1	ug/l	0.06	1.0			4		
MW-E	Chlorobenzene	6/11/09	23.7	ug/l	0.13	3.0	50				
MW-E	Chloroethane	6/11/09	1.1	ug/l	0.29	10.0	2800				
MW-E	Chromium	6/11/09	1	ug/l	0.10	10.0	50				
MW-E	Cis-1,2-Dichloroethene	6/11/09	0.8	ug/l	0.14	5.0	70				
MW-E	**Cobalt**	**6/11/09**	**90**	**ug/l**	**0.02**	**10.0**			**70**	**20**	**Natural**
MW-E	Copper	6/11/09	3.2	ug/l	0.04	10.0	1000				
MW-E	Lead	6/11/09	0.6	ug/l	0.04	10.0	15				
MW-E	Nickel	6/11/09	12.9	ug/l	0.04	50.0	100				
MW-E	Selenium	6/11/09	0.2	ug/l	0.12	10.0	50				
MW-E	Toluene	6/11/09	0.2	ug/l	0.13	1.0	1000				
MW-E	Vanadium	6/11/09	2.9	ug/l	0.28	25.0			3.5		
MW-E	**Vinyl Chloride**	**6/11/09**	**2.4**	**ug/l**	**0.34**	**1.0**	**0.015**			**2.385**	**Leachate &/or LFG**
MW-E	Zinc	6/11/09	17	ug/l	0.14	10.0	1050				

Sample ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [2]	SWSL [3]	2L [4]	2B [5]	GWP [6]	Exceedance	Preliminary Cause
MW-F	1,1-Dichloroethane	6/11/09	5.1	ug/l	0.16	5.0	70				
MW-F	1,2-Dichlorobenzene	6/11/09	0.2	ug/l	0.13	5.0	620				
MW-F	**1,2-Dichloroethane**	**6/11/09**	**0.6[j]**	**ug/l**	**0.12**	**1.0**	**0.38**			**0.22**	**Leachate &/or LFG**
MW-F	1,2-Dichloropropane	6/11/09	0.2	ug/l	0.17	1.0	0.51				
MW-F	**1,4-Dichlorobenzene**	**6/11/09**	**4.1**	**ug/l**	**0.21**	**1.0**	**1.4**			**2.7**	**Leachate &/or LFG**
MW-F	Arsenic	6/11/09	2.4	ug/l	0.17	10.0	50				
MW-F	Barium	6/11/09	531	ug/l	0.04	100.0	2000				
MW-F	**Benzene**	**6/11/09**	**3.5**	**ug/l**	**0.16**	**1.0**	**1**			**2.5**	**Leachate &/or LFG**
MW-F	Beryllium	6/11/09	0.1	ug/l	0.06	1.0			4		
MW-F	Chlorobenzene	6/11/09	15.6	ug/l	0.13	3.0	50				
MW-F	Chloroethane	6/11/09	0.9	ug/l	0.29	10.0	2800				
MW-F	Chloromethane	6/11/09	0.3	ug/l	0.18	1.0	2.6				
MW-F	Cis-1,2-Dichloroethene	6/11/09	59.3	ug/l	0.14	5.0	70				
MW-F	**Cobalt**	**6/11/09**	**182**	**ug/l**	**0.02**	**10.0**			**70**	**112**	**Natural**
MW-F	Copper	6/11/09	0.6	ug/l	0.04	10.0	1000				
MW-F	Mercury	6/11/09	0.06	ug/l	0.03	0.20	1.1				
MW-F	Nickel	6/11/09	10.6	ug/l	0.04	50.0	100				
MW-F	Selenium	6/11/09	0.9	ug/l	0.12	10.0	50				
MW-F	Silver	6/11/09	0.1	ug/l	0.04	10.0	18				
MW-F	**Tetrachloroethene**	**6/11/09**	**1.1**	**ug/l**	**0.16**	**1.0**	**0.7**			**0.4**	**Leachate &/or LFG**
MW-F	Thallium	6/11/09	0.1	ug/l	0.03	5.0			0.28		
MW-F	Toluene	6/11/09	0.4	ug/l	0.13	1.0	1000				
MW-F	trans-1,2-Dichloroethene	6/11/09	0.6	ug/l	0.13	5.0	100				
MW-F	Trichloroethene	6/11/09	2.1	ug/l	0.13	1.0	2.8				
MW-F	Vanadium	6/11/09	0.5	ug/l	0.28	25.0			3.5		
MW-F	**Vinyl Chloride**	**6/11/09**	**13.9**	**ug/l**	**0.34**	**1.0**	**0.015**			**13.885**	**Leachate &/or LFG**
MW-F	Zinc	6/11/09	8.6	ug/l	0.14	10.0	1050				
MW-G	Arsenic	6/11/09	0.9	ug/l	0.17	10.0	50				
MW-G	Barium	6/11/09	154	ug/l	0.04	100.0	2000				
MW-G	Beryllium	6/11/09	0.4	ug/l	0.06	1.0			4		
MW-G	Cadmium	6/11/09	0.2	ug/l	0.04	1.0	1.75				
MW-G	Chloromethane	6/11/09	0.2	ug/l	0.18	1.0	2.6				
MW-G	Chromium	6/11/09	4.8	ug/l	0.10	10.0	50				
MW-G	Cobalt	6/11/09	9.1	ug/l	0.02	10.0			70		
MW-G	Copper	6/11/09	1.9	ug/l	0.04	10.0	1000				
MW-G	Lead	6/11/09	2.8	ug/l	0.04	10.0	15				
MW-G	Nickel	6/11/09	17	ug/l	0.04	50.0	100				
MW-G	Selenium	6/11/09	0.9	ug/l	0.12	10.0	50				
MW-G	Tetrachloroethene	6/11/09	0.2	ug/l	0.16	1.0	0.7				
MW-G	**Vanadium**	**6/11/09**	**9.9[j]**	**ug/l**	**0.28**	**25.0**			**3.5**	**6.4**	**Natural**
MW-G	**Vinyl Chloride**	**6/11/09**	**0.7[j]**	**ug/l**	**0.34**	**1.0**	**0.015**			**0.685**	**Leachate &/or LFG**
MW-G	Zinc	6/11/09	52	ug/l	0.14	10.0	1050				

Sample ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [2]	SWSL [3]	2L [4]	2B [5]	GWP [6]	Exceedance	Preliminary Cause
MW-H	1,1-Dichloroethane	6/11/09	1.1	ug/l	0.16	5.0	70				
MW-H	1,4-Dichlorobenzene	6/11/09	1.4	ug/l	0.21	1.0	1.4				
MW-H	2-Butanone	6/11/09	0.9	ug/l	0.85	100.0	4200				
MW-H	Antimony	6/11/09	0.1	ug/l	0.06	6.0			1.4		
MW-H	Arsenic	6/11/09	2.4	ug/l	0.17	10.0	50				
MW-H	Barium	6/11/09	1804	ug/l	0.04	100.0	2000				
MW-H	**Benzene**	**6/11/09**	**1**	**ug/l**	**0.16**	**1.0**	**1**			**0**	**Leachate &/or LFG**
MW-H	Chlorobenzene	6/11/09	5.6	ug/l	0.13	3.0	50				
MW-H	Chloroethane	6/11/09	0.8	ug/l	0.29	10.0	2800				
MW-H	Cis-1,2-Dichloroethene	6/11/09	8.3	ug/l	0.14	5.0	70				
MW-H	**Cobalt**	**6/11/09**	**332**	**ug/l**	**0.02**	**10.0**			**70**	**262**	**Natural**
MW-H	Copper	6/11/09	0.7	ug/l	0.04	10.0	1000				
MW-H	Mercury	6/11/09	0.09	ug/l	0.03	0.20	1.1				
MW-H	Nickel	6/11/09	35.6	ug/l	0.04	50.0	100				
MW-H	Selenium	6/11/09	1.2	ug/l	0.12	10.0	50				
MW-H	Silver	6/11/09	0.1	ug/l	0.04	10.0	18				
MW-H	**Thallium**	**6/11/09**	**0.8[j]**	**ug/l**	**0.03**	**5.0**			**0.28**	**0.52**	**Natural**
MW-H	**Vinyl Chloride**	**6/11/09**	**2.3**	**ug/l**	**0.34**	**1.0**	**0.015**			**2.285**	**Leachate &/or LFG**
MW-H	Zinc	6/11/09	5.3	ug/l	0.14	10.0	1050				
MW-I	1,1-Dichloroethane	6/11/09	1.9	ug/l	0.16	5.0	70				
MW-I	**1,4-Dichlorobenzene**	**6/11/09**	**4.5**	**ug/l**	**0.21**	**1.0**	**1.4**			**3.1**	**Leachate &/or LFG**
MW-I	Antimony	6/11/09	0.1	ug/l	0.06	6.0			1.4		
MW-I	Arsenic	6/11/09	4	ug/l	0.17	10.0	50				
MW-I	Barium	6/11/09	238	ug/l	0.04	100.0	2000				
MW-I	**Benzene**	**6/11/09**	**3.6**	**ug/l**	**0.16**	**1.0**	**1**			**2.6**	**Leachate &/or LFG**
MW-I	Beryllium	6/11/09	0.3	ug/l	0.06	1.0			4		
MW-I	Cadmium	6/11/09	0.7	ug/l	0.04	1.0	1.75				
MW-I	Chlorobenzene	6/11/09	20.1	ug/l	0.13	3.0	50				
MW-I	Chloroethane	6/11/09	0.4	ug/l	0.29	10.0	2800				
MW-I	Chloromethane	6/11/09	0.2	ug/l	0.18	1.0	2.6				
MW-I	Chromium	6/11/09	1.6	ug/l	0.10	10.0	50				
MW-I	Cis-1,2-Dichloroethene	6/11/09	9.2	ug/l	0.14	5.0	70				
MW-I	Cobalt	6/11/09	56	ug/l	0.02	10.0			70		
MW-I	Copper	6/11/09	1.8	ug/l	0.04	10.0	1000				
MW-I	Lead	6/11/09	1.1	ug/l	0.04	10.0	15				
MW-I	Mercury	6/11/09	0.64	ug/l	0.03	0.20	1.1				
MW-I	Methylene Chloride	6/11/09	0.2	ug/l	0.14	1.0	4.6				
MW-I	Nickel	6/11/09	9.2	ug/l	0.04	50.0	100				
MW-I	Selenium	6/11/09	1.7	ug/l	0.12	10.0	50				
MW-I	Tetrachloroethene	6/11/09	0.2	ug/l	0.16	1.0	0.7				
MW-I	Thallium	6/11/09	0.1	ug/l	0.03	5.0			0.28		
MW-I	Toluene	6/11/09	0.2	ug/l	0.13	1.0	1000				
MW-I	Trichloroethene	6/11/09	0.3	ug/l	0.13	1.0	2.8				
MW-I	Vanadium	6/11/09	3.1	ug/l	0.28	25.0			3.5		
MW-I	**Vinyl Chloride**	**6/11/09**	**14.7**	**ug/l**	**0.34**	**1.0**	**0.015**			**14.685**	**Leachate &/or LFG**
MW-I	Zinc	6/11/09	72	ug/l	0.14	10.0	1050				

Sample ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [2]	SWSL [3]	2L [4]	2B [5]	GWP [6]	Exceedance	Preliminary Cause
MW-J	1,1-Dichloroethane	6/11/09	0.4	ug/l	0.16	5.0	70				
MW-J	Antimony	6/11/09	0.8	ug/l	0.06	6.0			1.4		
MW-J	Arsenic	6/11/09	0.7	ug/l	0.17	10.0	50				
MW-J	Barium	6/11/09	91.9	ug/l	0.04	100.0	2000				
MW-J	Benzene	6/11/09	0.5	ug/l	0.16	1.0	1				
MW-J	Beryllium	6/11/09	0.3	ug/l	0.06	1.0			4		
MW-J	Cadmium	6/11/09	0.3	ug/l	0.04	1.0	1.75				
MW-J	Chlorobenzene	6/11/09	0.7	ug/l	0.13	3.0	50				
MW-J	Chromium	6/11/09	1.6	ug/l	0.10	10.0	50				
MW-J	Cis-1,2-Dichloroethene	6/11/09	4.4	ug/l	0.14	5.0	70				
MW-J	Cobalt	6/11/09	11.5	ug/l	0.02	10.0			70		
MW-J	Copper	6/11/09	1.3	ug/l	0.04	10.0	1000				
MW-J	Lead	6/11/09	0.4	ug/l	0.04	10.0	15				
MW-J	Mercury	6/11/09	0.14	ug/l	0.03	0.20	1.1				
MW-J	Nickel	6/11/09	7.3	ug/l	0.04	50.0	100				
MW-J	Selenium	6/11/09	0.8	ug/l	0.12	10.0	50				
MW-J	Silver	6/11/09	0.1	ug/l	0.04	10.0	18				
MW-J	Tetrachloroethene	6/11/09	0.5	ug/l	0.16	1.0	0.7				
MW-J	Trichloroethene	6/11/09	0.4	ug/l	0.13	1.0	2.8				
MW-J	Vanadium	6/11/09	2.1	ug/l	0.28	25.0			3.5		
MW-J	**Vinyl Chloride**	**6/11/09**	**2.2**	**ug/l**	**0.34**	**1.0**	**0.015**			**2.185**	**Leachate &/or LFG**
MW-J	Zinc	6/11/09	19	ug/l	0.14	10.0	1050				
MW-K	2-Butanone	6/11/09	1.2	ug/l	0.85	100.0	4200				
MW-K	Antimony	6/11/09	0.3	ug/l	0.06	6.0			1.4		
MW-K	Arsenic	6/11/09	0.5	ug/l	0.17	10.0	50				
MW-K	Barium	6/11/09	51.5	ug/l	0.04	100.0	2000				
MW-K	Chloroform	6/11/09	0.3	ug/l	0.13	5.0	70				
MW-K	Chromium	6/11/09	2	ug/l	0.10	10.0	50				
MW-K	Cobalt	6/11/09	0.1	ug/l	0.02	10.0			70		
MW-K	Copper	6/11/09	0.6	ug/l	0.04	10.0	1000				
MW-K	Mercury	6/11/09	0.14	ug/l	0.03	0.20	1.1				
MW-K	Nickel	6/11/09	2.8	ug/l	0.04	50.0	100				
MW-K	Selenium	6/11/09	1.3	ug/l	0.12	10.0	50				
MW-K	Zinc	6/11/09	5.8	ug/l	0.14	10.0	1050				
MW-L	1,1-Dichloroethane	6/11/09	0.3	ug/l	0.16	5.0	70				
MW-L	2-Butanone	6/11/09	1.2	ug/l	0.85	100.0	4200				
MW-L	Acetone	6/11/09	6.8	ug/l	1.21	100.0	700				
MW-L	Antimony	6/11/09	0.2	ug/l	0.06	6.0			1.4		
MW-L	Arsenic	6/11/09	1.1	ug/l	0.17	10.0	50				
MW-L	Barium	6/11/09	94.4	ug/l	0.04	100.0	2000				
MW-L	Benzene	6/11/09	0.3	ug/l	0.16	1.0	1				
MW-L	Beryllium	6/11/09	0.3	ug/l	0.06	1.0			4		
MW-L	Cadmium	6/11/09	0.3	ug/l	0.04	1.0	1.75				
MW-L	Chlorobenzene	6/11/09	0.2	ug/l	0.13	3.0	50				
MW-L	Cis-1,2-Dichloroethene	6/11/09	1.9	ug/l	0.14	5.0	70				
MW-L	Cobalt	6/11/09	59.7	ug/l	0.02	10.0			70		
MW-L	Copper	6/11/09	1.7	ug/l	0.04	10.0	1000				
MW-L	Lead	6/11/09	0.2	ug/l	0.04	10.0	15				
MW-L	Mercury	6/11/09	0.06	ug/l	0.03	0.20	1.1				
MW-L	Nickel	6/11/09	6.2	ug/l	0.04	50.0	100				
MW-L	Selenium	6/11/09	0.6	ug/l	0.12	10.0	50				
MW-L	Trichloroethene	6/11/09	0.3	ug/l	0.13	1.0	2.8				
MW-L	Vanadium	6/11/09	0.6	ug/l	0.28	25.0			3.5		
MW-L	**Vinyl Chloride**	**6/11/09**	**1.5**	**ug/l**	**0.34**	**1.0**	**0.015**			**1.485**	**Leachate &/or LFG**
MW-L	Zinc	6/11/09	22	ug/l	0.14	10.0	1050				

Sample ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [2]	SWSL [3]	2L [4]	2B [5]	GWP [6]	Exceedance	Preliminary Cause
MW-M	1,1-Dichloroethane	6/11/09	0.2	ug/l	0.16	5.0	70				
MW-M	1,4-Dichlorobenzene	6/11/09	0.3	ug/l	0.21	1.0	1.4				
MW-M	Acetone	6/11/09	16.6	ug/l	1.21	100.0	700				
MW-M	Arsenic	6/11/09	0.2	ug/l	0.17	10.0	50				
MW-M	Barium	6/11/09	85	ug/l	0.04	100.0	2000				
MW-M	Beryllium	6/11/09	0.3	ug/l	0.06	1.0			4		
MW-M	Cadmium	6/11/09	0.1	ug/l	0.04	1.0	1.75				
MW-M	Chlorobenzene	6/11/09	1.5	ug/l	0.13	3.0	50				
MW-M	Chromium	6/11/09	1.7	ug/l	0.10	10.0	50				
MW-M	Cis-1,2-Dichloroethene	6/11/09	1.3	ug/l	0.14	5.0	70				
MW-M	Cobalt	6/11/09	0.5	ug/l	0.02	10.0			70		
MW-M	Copper	6/11/09	0.6	ug/l	0.04	10.0	1000				
MW-M	Lead	6/11/09	0.1	ug/l	0.04	10.0	15				
MW-M	Mercury	6/11/09	0.25	ug/l	0.03	0.20	1.1				
MW-M	Nickel	6/11/09	3	ug/l	0.04	50.0	100				
MW-M	Selenium	6/11/09	0.7	ug/l	0.12	10.0	50				
MW-M	Tetrachloroethene	6/11/09	0.5	ug/l	0.16	1.0	0.7				
MW-M	Trichloroethene	6/11/09	0.3	ug/l	0.13	1.0	2.8				
MW-M	Vanadium	6/11/09	0.3	ug/l	0.28	25.0			3.5		
MW-M	Zinc	6/11/09	11	ug/l	0.14	10.0	1050				
SW-1	Acetone	6/11/09	2.5	ug/l	1.21	100.0					
SW-1	Antimony	6/11/09	0.1	ug/l	0.06	6.0		640			
SW-1	Arsenic	6/11/09	1.6	ug/l	0.17	10.0		10			
SW-1	Barium	6/11/09	66.1	ug/l	0.04	100.0		20000			
SW-1	Beryllium	6/11/09	0.1	ug/l	0.06	1.0		6.5			
SW-1	Chromium	6/11/09	1.2	ug/l	0.10	10.0		50			
SW-1	Cobalt	6/11/09	5.5	ug/l	0.02	10.0		270			
SW-1	Copper	6/11/09	1.6	ug/l	0.04	10.0		7			
SW-1	Lead	6/11/09	1.7	ug/l	0.04	10.0		25			
SW-1	Nickel	6/11/09	2.3	ug/l	0.04	50.0		88			
SW-1	Vanadium	6/11/09	2.9	ug/l	0.28	25.0		NE			
SW-1	Zinc	6/11/09	8.1	ug/l	0.14	10.0		50			
SW-2	Acetone	6/11/09	2.5	ug/l	1.21	100.0		2000			
SW-2	Antimony	6/11/09	0.1	ug/l	0.06	6.0		640			
SW-2	Arsenic	6/11/09	0.9	ug/l	0.17	10.0		10			
SW-2	Barium	6/11/09	47.8	ug/l	0.04	100.0		20000			
SW-2	Beryllium	6/11/09	0.1	ug/l	0.06	1.0		6.5			
SW-2	Chromium	6/11/09	1.1	ug/l	0.10	10.0		50			
SW-2	Cobalt	6/11/09	2.1	ug/l	0.02	10.0		270			
SW-2	Copper	6/11/09	1.7	ug/l	0.04	10.0		7			
SW-2	Lead	6/11/09	1	ug/l	0.04	10.0		25			
SW-2	Nickel	6/11/09	2	ug/l	0.04	50.0		88			
SW-2	Vanadium	6/11/09	2	ug/l	0.28	25.0		NE			
SW-2	Zinc	6/11/09	6.8	ug/l	0.14	10.0		50			

Sample ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [2]	SWSL [3]	2L [4]	2B [5]	GWP [6]	Exceedance	Preliminary Cause
SW-3	1,1-Dichloroethane	6/11/09	1.3	ug/l	0.16	5.0		20000			
SW-3	1,2-Dichlorobenzene	6/11/09	0.2	ug/l	0.13	5.0		100			
SW-3	1,4-Dichlorobenzene	6/11/09	2	ug/l	0.21	1.0		100			
SW-3	2-Butanone	6/11/09	1.5	ug/l	0.85	100.0		160000			
SW-3	Arsenic	6/11/09	0.5	ug/l	0.17	10.0		10			
SW-3	Barium	6/11/09	1504	ug/l	0.04	100.0		20000			
SW-3	Benzene	6/11/09	0.8	ug/l	0.16	1.0		51			
SW-3	Cadmium	6/11/09	0.1	ug/l	0.04	1.0		2			
SW-3	Chlorobenzene	6/11/09	7.2	ug/l	0.13	3.0		140			
SW-3	Cis-1,2-Dichloroethene	6/11/09	7.7	ug/l	0.14	5.0		4900			
SW-3	**Cobalt**	**6/11/09**	**313**	**ug/l**	**0.02**	**10.0**		**270**		**43**	**Offsite Upstream**
SW-3	Copper	6/11/09	0.7	ug/l	0.04	10.0		7			
SW-3	Nickel	6/11/09	56	ug/l	0.04	50.0		88			
SW-3	Selenium	6/11/09	0.9	ug/l	0.12	10.0		5			
SW-3	**Thallium**	**6/11/09**	**0.8[j]**	**ug/l**	**0.03**	**5.0**		**0.47**		**0.33**	**Offsite Upstream**
SW-3	**Vinyl Chloride**	**6/11/09**	**2.6**	**ug/l**	**0.34**	**1.0**		**2.4**		**0.2**	**Offsite Upstream**
SW-3	**Zinc**	**6/11/09**	**59**	**ug/l**	**0.14**	**10.0**		**50**		**9**	**Offsite Upstream**
SW-4	Acetone	6/11/09	4.4	ug/l	1.21	100.0		2000			
SW-4	Antimony	6/11/09	0.2	ug/l	0.06	6.0		640			
SW-4	Arsenic	6/11/09	2.5	ug/l	0.17	10.0		10			
SW-4	Barium	6/11/09	807	ug/l	0.04	100.0		20000			
SW-4	Beryllium	6/11/09	0.3	ug/l	0.06	1.0		6.5			
SW-4	Cadmium	6/11/09	0.2	ug/l	0.04	1.0		2			
SW-4	Carbon Disulfide	6/11/09	0.3	ug/l	0.14	100.0		NE			
SW-4	Chloromethane	6/11/09	0.4	ug/l	0.18	1.0		96			
SW-4	Chromium	6/11/09	5.6	ug/l	0.10	10.0		50			
SW-4	Cobalt	6/11/09	42	ug/l	0.02	10.0		270			
SW-4	**Copper**	**6/11/09**	**7.2[j]**	**ug/l**	**0.04**	**10.0**		**7**		**0.2**	**Natural**
SW-4	Lead	6/11/09	9.9	ug/l	0.04	10.0		25			
SW-4	Nickel	6/11/09	6.3	ug/l	0.04	50.0		88			
SW-4	Selenium	6/11/09	2.6	ug/l	0.12	10.0		5			
SW-4	Toluene	6/11/09	0.5	ug/l	0.13	1.0		11			
SW-4	Vanadium	6/11/09	11.7	ug/l	0.28	25.0		NE			
SW-4	Zinc	6/11/09	45	ug/l	0.14	10.0		50			
EB	Acetone	6/11/09	1.21	ug/l	1.21	100.0	700				
EB	Barium	6/11/09	0.1	ug/l	0.04	100.0	2000				
EB	Chloromethane	6/11/09	0.2	ug/l	0.18	1.0	2.6				
EB	Copper	6/11/09	0.3	ug/l	0.04	10.0	1000				
EB	Nickel	6/11/09	0.7	ug/l	0.04	50.0	100				
EB	Zinc	6/11/09	2	ug/l	0.14	10.0	1050				

[1] Table contains all constituents detected above MDL

[2] MDL = Method Detection Limit

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

[4] 2L = North Carolina Ground Water 2L Standard (Current as of Sampling Event)

[5] 2B = North Carolina Surface Water 2B Standard for Specific Stream Classification (Current as of Sampling Event)

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

[J] =The reported value is estimated & between the laboratory MDL & the SWSL, adjusted for actual sample preparation data and moisture content.

LFG = Landfill Gas

NE = Not Established

BOLD = Concentration => the applicable GWP, 2L, or 2B Standard (Current as of Sampling Event)

Hydrologic Properties at Monitoring Well Locations
Hertford County Closed Unlined MSWLF

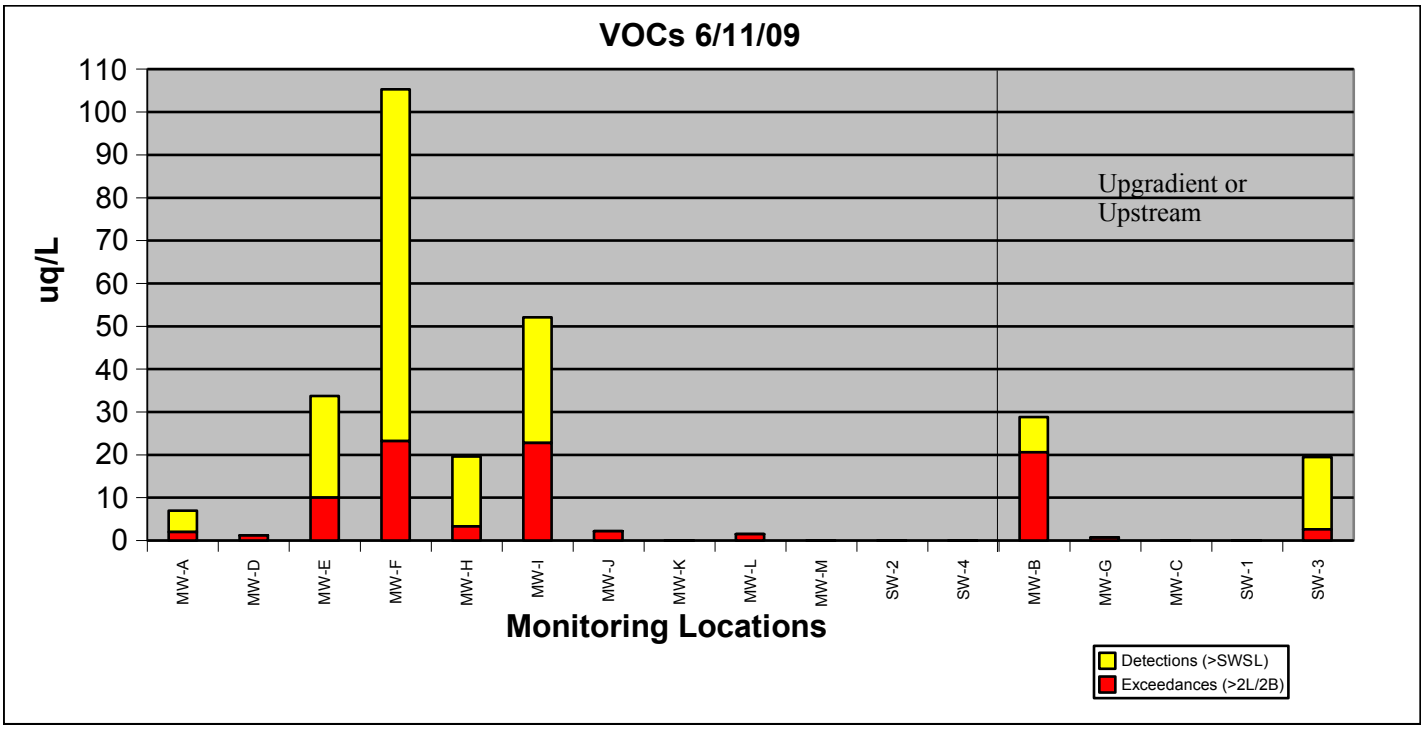
Monitoring Well	Hydraulic Conductivity (cm/sec)	Effective Porosity (%)	Hydraulic Gradient	Flow Rate (ft/yr)	Flow Direction	Water Table Depth (ft)	Water Table Elevation (ft)	Screened Interval Lithology	Direction in Relation to MSWLF Boundary
MW-A	7.30E-04	20%	0.0094	35	N01E	25.56	24.69	Sand	Crossgradient
MW-B	6.90E-04	20%	0.0016	6	N31W	25.25	24.52	Sand	Upgradient
MW-C	1.10E-04	20%	0.0010	1	N54W	20.99	24.59	Clayey Sand	Upgradient
MW-D	4.40E-04	20%	0.0064	14	N05E	27.95	20.36	Clayey Silt	Downgradient
MW-E	3.10E-03	20%	0.0033	53	N67W	27.63	20.23	Sand	Downgradient
MW-F	3.10E-03	20%	0.0013	21	N53W	31.25	18.24	Clayey Sand	Downgradient
MW-G	1.80E-03	20%	0.0014	13	N28W	25.29	24.81	Sand	Upgradient
MW-H	4.60E-03	20%	0.0067	159	N11W	28.16	17.3	Sand	Downgradient
MW-I	1.10E-03	20%	0.0027	15	N85W	30.4	17.6	Sand	Downgradient
MW-J	1.20E-03	20%	0.0002	1	N77W	153.23	18.17	Sand	Downgradient
MW-K	3.50E-03	20%	0.0013	24	N11W	29.3	19.51	Sand	Downgradient
MW-L	1.60E-04	20%	0.0044	4	N01E	25.23	21.18	Sand	Downgradient
MW-M	1.20E-03	20%	0.0058	36	N00W	23.08	24.69	Sand	Crossgradient

NOTE: Data for effective porosity & hydraulic conductivities obtained from GAI Consultants' Assessment Report (Feb. 1996)
Hydrologic Gradient taken from the June 11, 2009 sampling event.
Flow rate (Q) is defined by the equation:

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

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

Histogram for All VOC Detections above SWSL, GWP, and NCGW2L
Hertford County Closed Unlined MSWLF



Sample ID	Detected >SWSL<2L/2B		Detected >2L/2B		Cumulative >SWSL & >2L/2B		Exceeded 2L/2B Aromatic Parameter(s)	Exceeded 2L/2B CAH Parameter(s)	Exceeded Parameter(s) Detected >Historical Identified Range
	#	Conc. (uq/L)	#	Conc. (uq/L)	#	Conc. (uq/L)			
MW-A	2	5	2	2	4	7	Benzene	VCM[j]	-
MW-B	1	8.2	3	20.6	4	28.8	-	PCE,TCE,VCM	-
MW-D	0	0	1	1.2	1	1.2	-	VCM	-
MW-E	1	23.7	3	10	4	33.7	Benzene,1,4-DCB	VCM	-
MW-F	4	82.1	5	23.2	9	105.3	Benzene,1,4-DCB	EDC[j],PCE,VCM	-
MW-G	0	0	1	0.7	1	0.7	-	VCM[j]	-
MW-H	4	16.3	2	3.3	6	19.6	Benzene	VCM	-
MW-I	2	29.3	3	22.8	5	52.1	Benzene,1,4-DCB	VCM	-
MW-J	0	0	1	2.2	1	2.2	-	VCM	-
MW-L	0	0	1	1.5	1	1.5	-	VCM	-
SW-3	3	16.9	1	2.6	4	19.5	-	VCM	-
Total	**17**	**181.5**	**23**	**90**	**40**	**271.6**	**7**	**15**	**0**

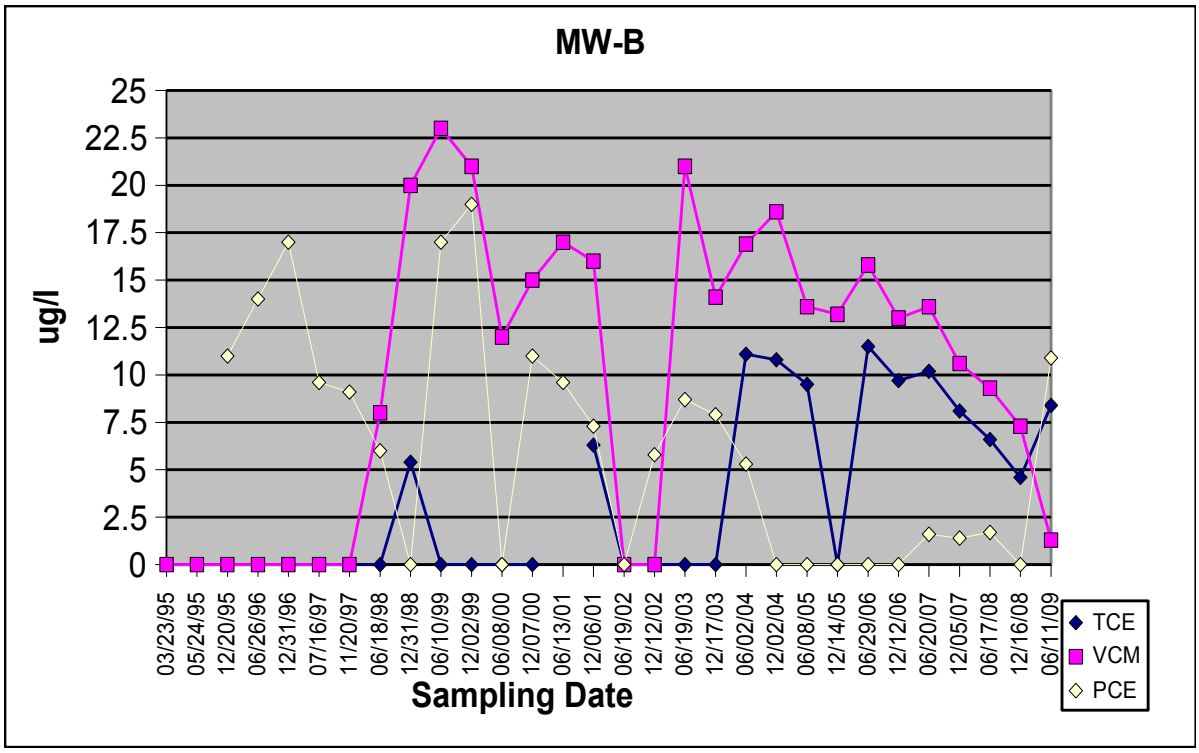
SWSL = Solid Waste Section Reporting Limit (Current as of Sampling Event)

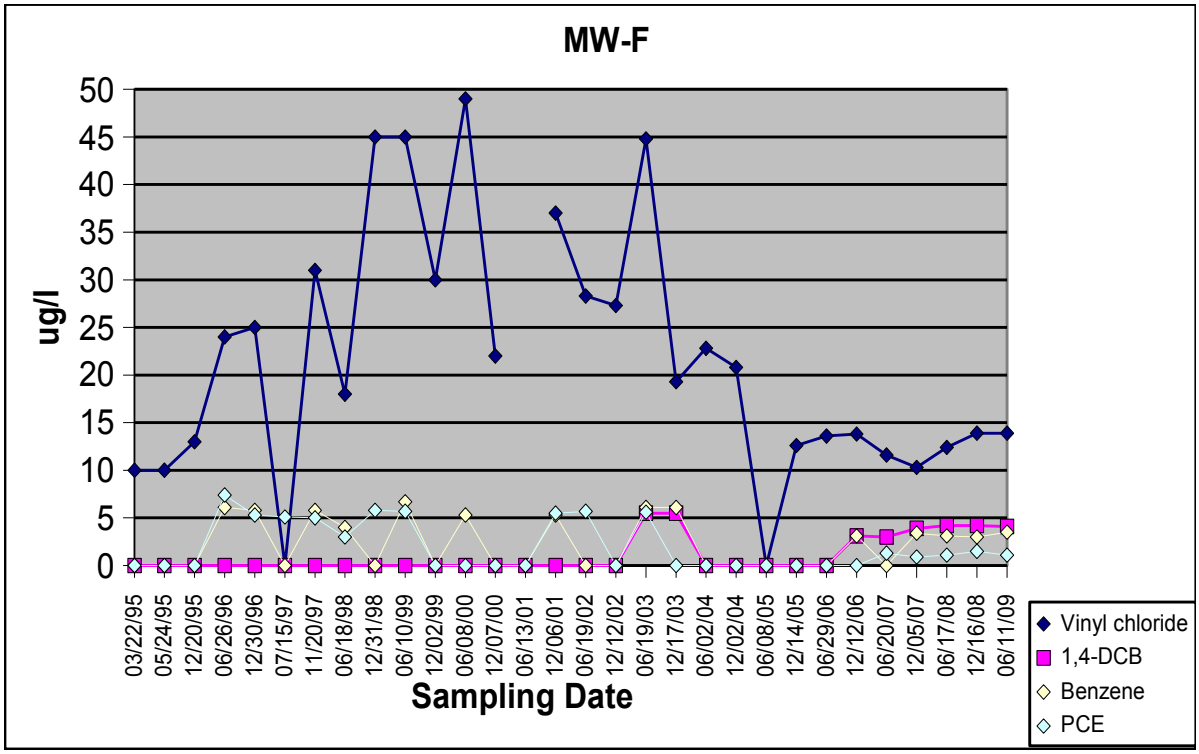
2L = North Carolina Ground Water 2L Standard (Current as of Sampling Event)

2B = North Carolina Surface Water 2B Standard (Current as of Sampling Event)

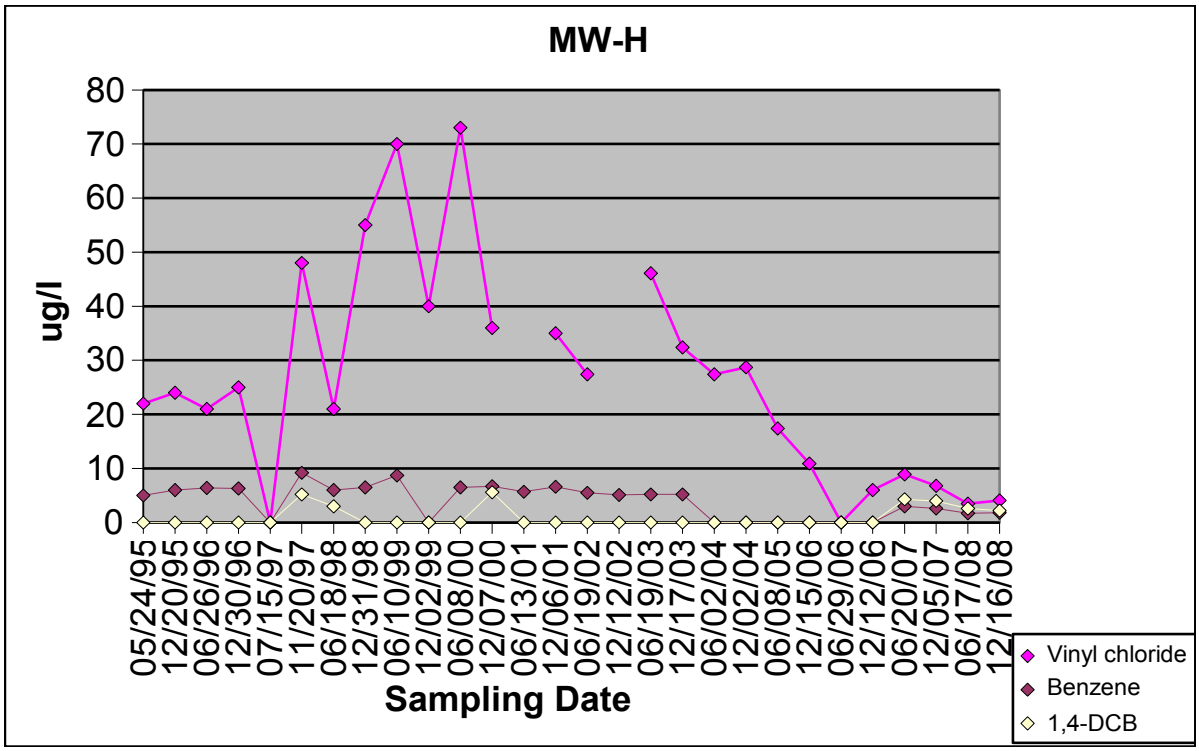
J = Detected >2L/2B BUT <SWSL ("J" Qualifier) Therefore, concentration non-quantifiable or an estimated value

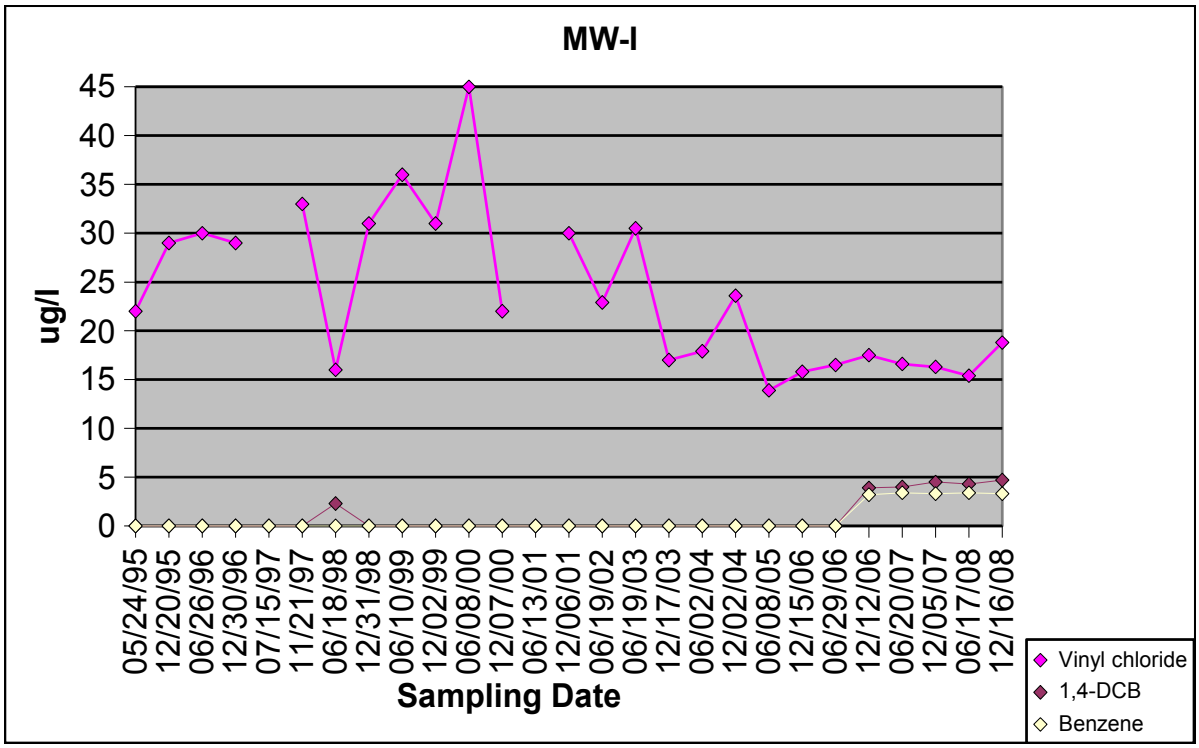
Time-Series Plot for VOC Exceedances
Hertford County Closed Unlined MSWLF



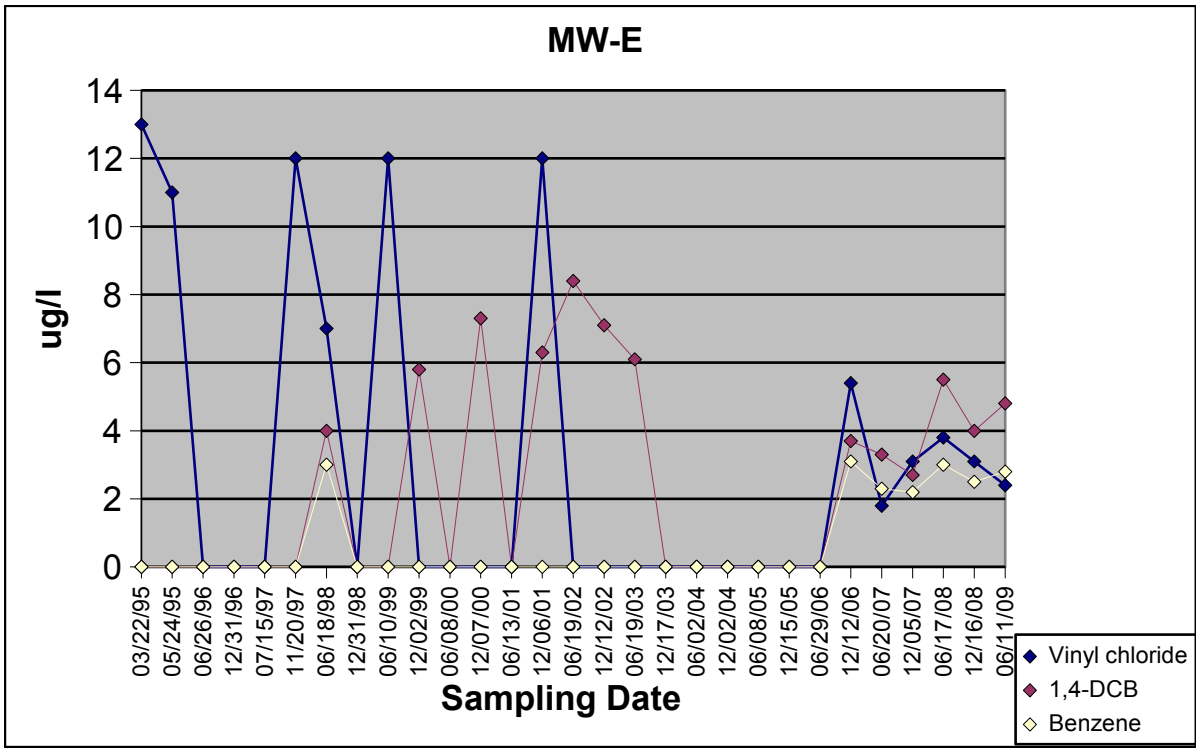


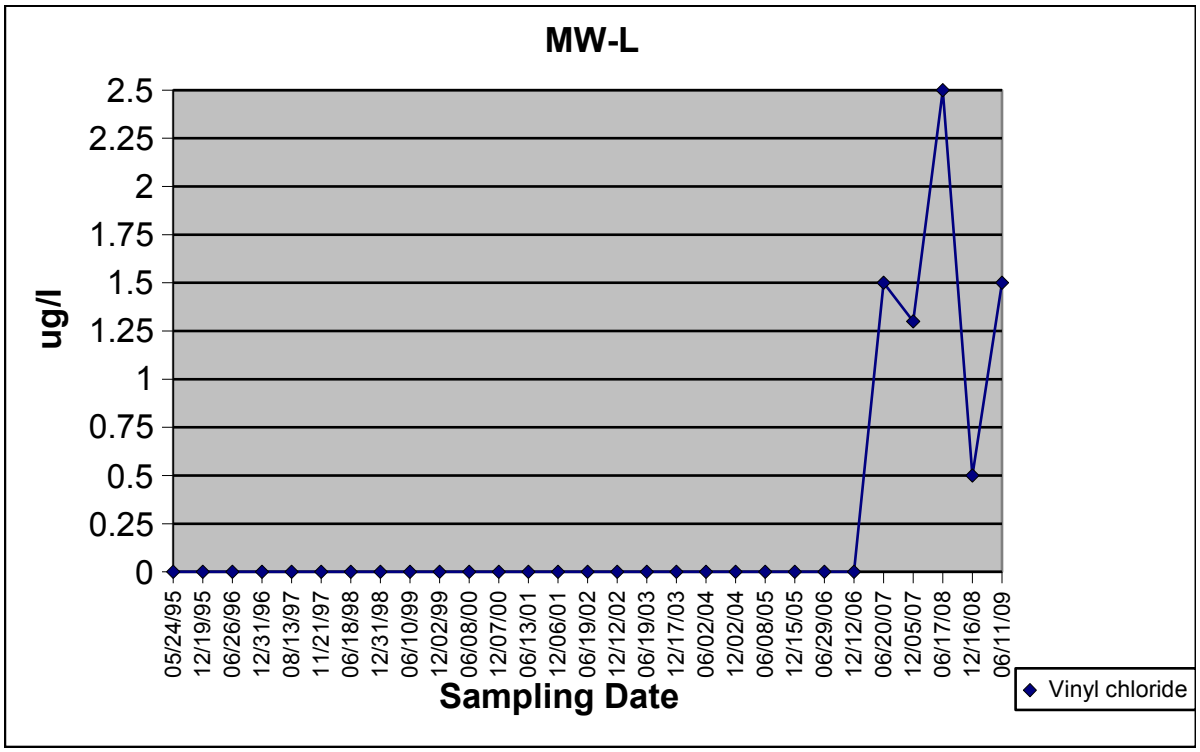
Time-Series Plot for Exceedances
Hertford County Closed Unlined MSWLF



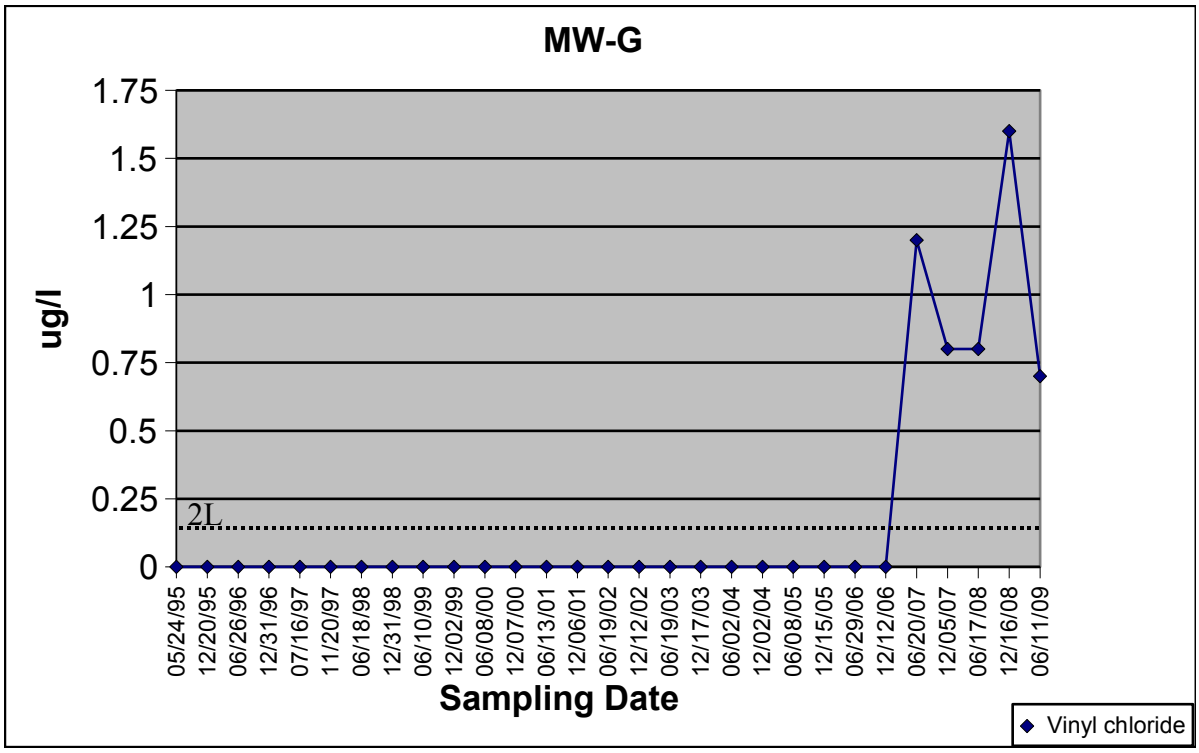


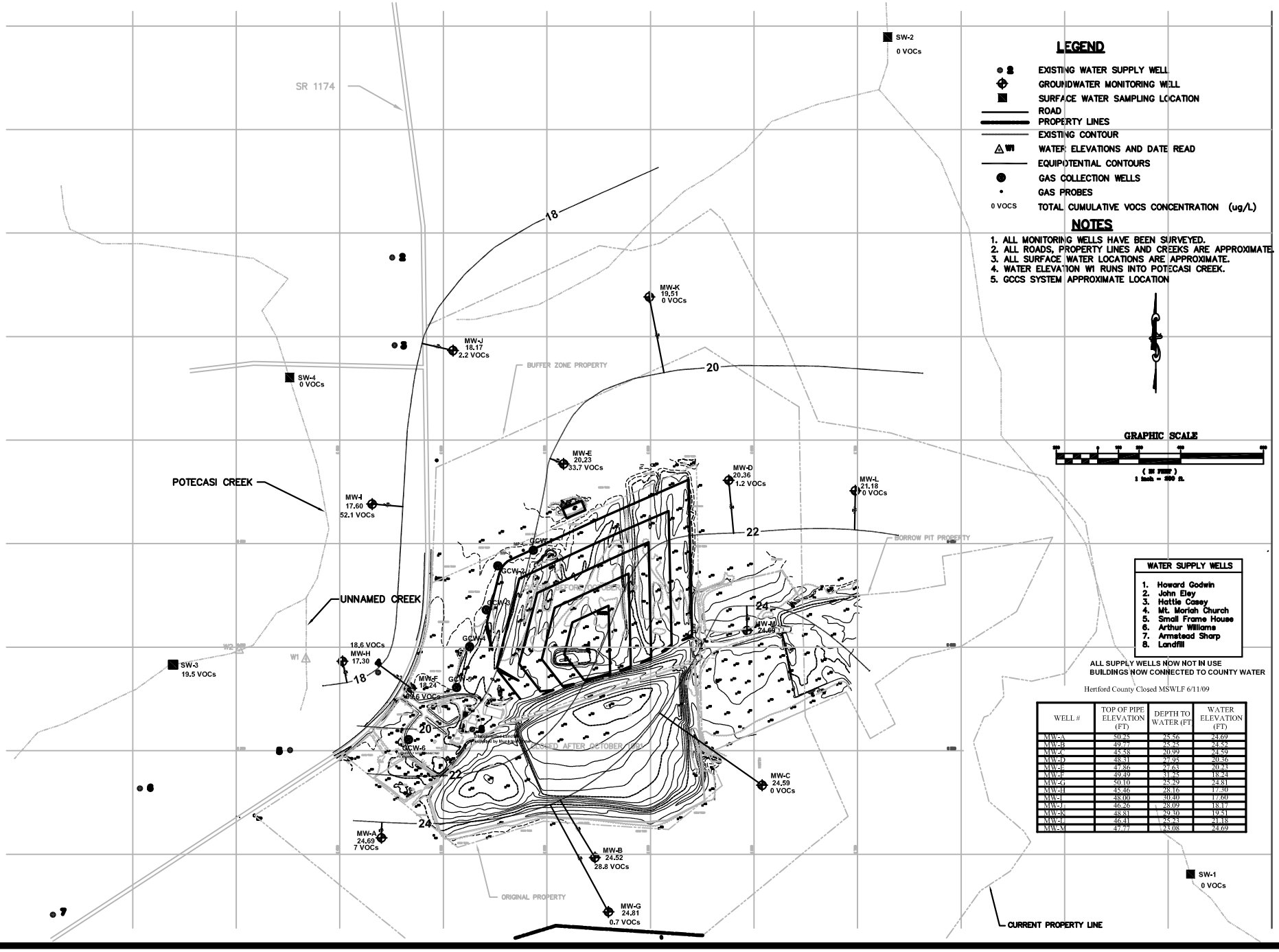
Time-Series Plot for VOC Exceedances
Hertford County Closed Unlined MSWLF





Time-Series Plot for VOC Exceedances
Hertford County Closed Unlined MSWLF





LEGEND

- EXISTING WATER SUPPLY WELL
- GROUNDWATER MONITORING WELL
- SURFACE WATER SAMPLING LOCATION
- ROAD
- PROPERTY LINES
- EXISTING CONTOUR
- WATER ELEVATIONS AND DATE READ
- EQUIPOTENTIAL CONTOURS
- GAS COLLECTION WELLS
- GAS PROBES
- 0 VOCS — TOTAL CUMULATIVE VOCS CONCENTRATION (ug/L)

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

GRAPHIC SCALE

(IN FEET)
1 inch = 200 ft.

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

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

Hertford County Closed MSWLF 6/11/09

WELL #	TOP OF PIPE ELEVATION (FT)	DEPTH TO WATER (FT)	WATER ELEVATION (FT)
MW-A	50.25	25.56	24.69
MW-B	49.77	25.25	24.52
MW-C	45.58	20.99	24.59
MW-D	48.31	27.95	20.36
MW-E	47.86	27.63	20.23
MW-F	49.49	31.25	18.24
MW-G	50.10	25.29	24.81
MW-H	45.46	28.16	17.30
MW-I	48.00	30.40	17.60
MW-J	46.26	28.09	18.17
MW-K	48.81	29.30	19.51
MW-L	46.41	25.23	21.18
MW-M	47.77	23.08	24.69

Municipal Services Engineering Company, P.A.

MUNICIPAL SOLID WASTE
LANDFILL FACILITY
HERTFORD COUNTY
NORTH CAROLINA

SINGLE DAY POTENTIOMETRIC MAP
06/11/2009

DATE	BY	REV.	DESCRIPTION

SCALE: 1" = 200'
DATE:
DRWN. BY: M. GERRAN
CHKD. BY: J. PITTS
PROJECT NUMBER: 6010130
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: 06/11/09
DATE REPORTED : 07/16/09

REVIEWED BY:

PARAMETERS	MDL	SWSL	SW-1	SW-2	SW-3	SW-4	Analysis Date	Analyst	Method Code
PH (field measurement), Units			5.9	6.0	6.2	6.7	06/11/09	RJH	SM4500HB
Antimony, ug/l	0.06	6.0	0.1 J	0.1 J	--- U	0.2 J	06/19/09	LFJ	EPA200.8
Arsenic, ug/l	0.17	10.0	1.6 J	0.9 J	0.5 J	2.5 J	06/19/09	LFJ	EPA200.8
Barium, ug/l	0.04	100.0	66.1 J	47.8 J	1504	807	06/19/09	LFJ	EPA200.8
Beryllium, ug/l	0.06	1.0	0.1 J	0.1 J	--- U	0.3 J	06/19/09	LFJ	EPA200.8
Cadmium, ug/l	0.04	1.0	--- U	--- U	0.1 J	0.2 J	06/19/09	LFJ	EPA200.8
Cobalt, ug/l	0.02	10.0	5.5 J	2.1 J	313	42	06/19/09	LFJ	EPA200.8
Copper, ug/l	0.04	10.0	1.6 J	1.7 J	0.7 J	7.2 J	06/19/09	LFJ	EPA200.8
Total Chromium, ug/l	0.10	10.0	1.2 J	1.1 J	--- U	5.6 J	06/19/09	LFJ	EPA200.8
Lead, ug/l	0.04	10.0	1.7 J	1 J	--- U	9.9 J	06/19/09	LFJ	EPA200.8
Nickel, ug/l	0.04	50.0	2.3 J	2 J	56	6.3 J	06/19/09	LFJ	EPA200.8
Selenium, ug/l	0.12	10.0	--- U	--- U	0.9 J	2.6 J	06/19/09	LFJ	EPA200.8
Silver, ug/l	0.04	10.0	--- U	--- U	--- U	--- U	06/19/09	LFJ	EPA200.8
Thallium, ug/l	0.03	5.0	--- U	--- U	0.8 J	--- U	06/19/09	LFJ	EPA200.8
Vanadium, ug/l	0.28	25.0	2.9 J	2 J	--- U	11.7 J	06/19/09	LFJ	EPA200.8
Zinc, ug/l	0.14	10.0	8.1 J	6.8 J	59	45	06/19/09	LFJ	EPA200.8
Conductivity (at 25c), uMhos	1.0	1.0	65	55	637	290	06/11/09	RJH	SM2510B
Temperature, °C			24	24	18	23	06/11/09	RJH	SM2550B

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: 06/11/09
DATE REPORTED: 07/16/09

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Date Analyzed: 06/19/09 SW-1	06/19/09 SW-2	06/23/09 SW-3	06/23/09 SW-4
1. Chloromethane	0.18	1.0	--- U	--- U	--- U	0.40 J
2. Vinyl Chloride	0.34	1.0	--- U	--- U	2.60	--- U
3. Bromomethane	0.26	10.0	--- U	--- U	--- U	--- U
4. Chloroethane	0.29	10.0	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.13	1.0	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.14	5.0	--- U	--- U	--- U	--- U
7. Acetone	1.21	100.0	2.50 J	2.50 J	--- U	4.40 J
8. Iodomethane	0.12	10.0	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.14	100.0	--- U	--- U	--- U	0.30 J
10. Methylene Chloride	0.14	1.0	--- U	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.13	5.0	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.16	5.0	--- U	--- U	1.30 J	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	--- U	--- U	7.70	--- U
15. 2-Butanone	0.85	100.0	--- U	--- U	1.50 J	--- U
16. Bromochloromethane	0.11	3.0	--- U	--- U	--- U	--- U
17. Chloroform	0.13	5.0	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.11	1.0	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.13	1.0	--- U	--- U	--- U	--- U
20. Benzene	0.16	1.0	--- U	--- U	0.80 J	--- U
21. 1,2-Dichloroethane	0.12	1.0	--- U	--- U	--- U	--- U
22. Trichloroethene	0.13	1.0	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.17	1.0	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.13	1.0	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.17	1.0	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	0.68	100.0	--- U	--- U	--- U	--- U
27. Toluene	0.13	1.0	--- U	--- U	--- U	0.50 J
28. trans-1,3-Dichloropropene	0.14	1.0	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.20	1.0	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.16	1.0	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.00	50.0	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.14	3.0	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.13	3.0	--- U	--- U	7.20	--- U
35. 1,1,1,2-Tetrachloroethane	0.14	5.0	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.16	1.0	--- U	--- U	--- U	--- U
37. Xylenes	0.48	5.0	--- U	--- U	--- U	--- U
38. Dibromomethane	0.17	10.0	--- U	--- U	--- U	--- U
39. Styrene	0.16	1.0	--- U	--- U	--- U	--- U
40. Bromoform	0.11	3.0	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	3.0	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.06	1.0	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.21	1.0	--- U	--- U	2.00	--- U
44. 1,2-Dichlorobenzene	0.13	5.0	--- U	--- U	0.20 J	--- U
45. 1,2-Dibromo-3-Chloropropane	0.26	13.0	--- U	--- U	--- U	--- U
46. Acrylonitrile	1.49	200.0	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.0	--- 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

ID#: 6025

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

DATE COLLECTED: 06/11/09
DATE REPORTED : 07/14/09

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW-A	MW-B	MW-C	MW-D	MW-E	Analysis Date	Analyst	Method Code
PH (field measurement), Units			5.4	5.4	5.0	5.6	5.7	06/11/09	RJH	SM4500HB
Antimony, ug/l	0.06	6.0	0.1 J	0.1 J	--- U	--- U	0.1 J	06/16/09	CMF	EPA200.8
Arsenic, ug/l	0.17	10.0	3.3 J	9.0 J	--- U	1.8 J	10	06/16/09	CMF	EPA200.8
Barium, ug/l	0.04	100.0	132	123	85.2 J	142	119	06/16/09	CMF	EPA200.8
Beryllium, ug/l	0.06	1.0	0.1 J	0.2 J	1	0.1 J	0.1 J	06/16/09	CMF	EPA200.8
Cadmium, ug/l	0.04	1.0	0.2 J	0.1 J	0.1 J	0.2 J	--- U	06/16/09	CMF	EPA200.8
Cobalt, ug/l	0.02	10.0	116	63	7.8 J	46	90	06/16/09	CMF	EPA200.8
Copper, ug/l	0.04	10.0	1.8 J	1.1 J	1.1 J	1.5 J	3.2 J	06/16/09	CMF	EPA200.8
Total Chromium, ug/l	0.10	10.0	1.7 J	0.6 J	0.4 J	0.8 J	1.0 J	06/16/09	CMF	EPA200.8
Lead, ug/l	0.04	10.0	1.0 J	0.3 J	0.3 J	0.3 J	0.6 J	06/16/09	CMF	EPA200.8
Mercury, ug/l	0.03	0.20	0.12 J	0.07 J	--- U	--- U	--- U	06/16/09	CMF	EPA200.8
Nickel, ug/l	0.04	50.0	4.1 J	12.6 J	6.2 J	7.4 J	12.9 J	06/16/09	CMF	EPA200.8
Selenium, ug/l	0.12	10.0	0.3 J	0.3 J	0.4 J	0.7 J	0.2 J	06/16/09	CMF	EPA200.8
Silver, ug/l	0.04	10.0	--- U	0.1 J	--- U	--- U	--- U	06/16/09	CMF	EPA200.8
Thallium, ug/l	0.03	5.0	--- U	0.1 J	--- U	--- U	--- U	06/16/09	CMF	EPA200.8
Vanadium, ug/l	0.28	25.0	2.3 J	1.8 J	1.8 J	2.3 J	2.9 J	06/16/09	CMF	EPA200.8
Zinc, ug/l	0.14	10.0	20	14	32	49	17	06/16/09	CMF	EPA200.8
Conductivity (at 25c), uMhos	1.0	1.0	242	249	71	389	394	06/11/09	RJH	SM2510B
Temperature, °C			17	16	15	16	18	06/11/09	RJH	SM2550B
Static Water Level, feet			25.56	25.25	20.99	27.95	27.63	06/11/09	RJH	
Well Depth, feet			30.41	28.85	25.20	35.49	35.39	06/11/09	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: 06/11/09
DATE REPORTED : 07/14/09

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW-F	MW-G	MW-H	MW-I	MW-J	Analysis Date	Analyst	Method Code
PH (field measurement), Units			6.1	5.8	6.3	5.8	5.5	06/11/09	RJH	SM4500HB
Antimony, ug/l	0.06	6.0	--- U	--- U				06/16/09	CMF	EPA200.8
Antimony, ug/l	0.06	6.0			0.1 J	0.1 J	0.8 J	06/19/09	LFJ	EPA200.8
Arsenic, ug/l	0.17	10.0	2.4 J	0.9 J				06/16/09	CMF	EPA200.8
Arsenic, ug/l	0.17	10.0			2.4 J	4 J	0.7 J	06/19/09	LFJ	EPA200.8
Barium, ug/l	0.04	100.0	531	154				06/16/09	CMF	EPA200.8
Barium, ug/l	0.04	100.0			1804	238	91.9 J	06/19/09	LFJ	EPA200.8
Beryllium, ug/l	0.06	1.0	0.1 J	0.4 J				06/16/09	CMF	EPA200.8
Beryllium, ug/l	0.06	1.0			--- U	0.3 J	0.3 J	06/19/09	LFJ	EPA200.8
Cadmium, ug/l	0.04	1.0	--- U	0.2 J				06/16/09	CMF	EPA200.8
Cadmium, ug/l	0.04	1.0			--- U	0.7 J	0.3 J	06/19/09	LFJ	EPA200.8
Cobalt, ug/l	0.02	10.0	182	9.1 J				06/16/09	CMF	EPA200.8
Cobalt, ug/l	0.02	10.0			332	56	11.5	06/19/09	LFJ	EPA200.8
Copper, ug/l	0.04	10.0	0.6 J	1.9 J				06/16/09	CMF	EPA200.8
Copper, ug/l	0.04	10.0			0.7 J	1.8 J	1.3 J	06/19/09	LFJ	EPA200.8
Total Chromium, ug/l	0.10	10.0	--- U	4.8 J				06/16/09	CMF	EPA200.8
Total Chromium, ug/l	0.10	10.0			--- U	1.6 J	1.6 J	06/19/09	LFJ	EPA200.8
Lead, ug/l	0.04	10.0	--- U	2.8 J				06/16/09	CMF	EPA200.8
Lead, ug/l	0.04	10.0			--- U	1.1 J	0.4 J	06/19/09	LFJ	EPA200.8
Mercury, ug/l	0.03	0.20	0.06 J	--- U				06/16/09	CMF	EPA200.8
Mercury, ug/l	0.03	0.20			0.09 J	0.64	0.14 J	06/19/09	LFJ	EPA200.8
Nickel, ug/l	0.04	50.0	10.6 J	17.0 J				06/16/09	CMF	EPA200.8
Nickel, ug/l	0.04	50.0			35.6 J	9.2 J	7.3 J	06/19/09	LFJ	EPA200.8
Selenium, ug/l	0.12	10.0	0.9 J	0.9 J				06/16/09	CMF	EPA200.8
Selenium, ug/l	0.12	10.0			1.2 J	1.7 J	0.8 J	06/19/09	LFJ	EPA200.8
Silver, ug/l	0.04	10.0	0.1 J	--- U				06/16/09	CMF	EPA200.8
Silver, ug/l	0.04	10.0			0.1 J	--- U	0.1 J	06/19/09	LFJ	EPA200.8
Thallium, ug/l	0.03	5.0	0.1 J	--- U				06/16/09	CMF	EPA200.8
Thallium, ug/l	0.03	5.0			0.8 J	0.1 J	--- U	06/19/09	LFJ	EPA200.8
Vanadium, ug/l	0.28	25.0	0.5 J	9.9 J				06/16/09	CMF	EPA200.8
Vanadium, ug/l	0.28	25.0			--- U	3.1 J	2.1 J	06/19/09	LFJ	EPA200.8
Zinc, ug/l	0.14	10.0	8.6 J	52				06/16/09	CMF	EPA200.8
Zinc, ug/l	0.14	10.0			5.3 J	72	19	06/19/09	LFJ	EPA200.8
Conductivity (at 25c), uMhos	1.0	1.0	1053	350	656	515	220	06/11/09	RJH	SM2510B
Temperature, °C			19	16	18	16	16	06/11/09	RJH	SM2550B
Static Water Level, feet			31.25	25.29	28.16	30.40	28.09	06/11/09	RJH	
Well Depth, feet			35.28	39.65	37.11	36.47	38.45	06/11/09	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: 06/11/09
DATE REPORTED : 07/14/09

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW-K	MW-L	MW-M	Trip Blank	Equipment Blank	Analysis Date	Analyst	Method Code
PH (field measurement), Units			5.7	5.4	5.1			06/11/09	RJH	SM4500HB
Antimony, ug/l	0.06	6.0	0.3 J	0.2 J	--- U		--- U	06/19/09	LFJ	EPA200.8
Arsenic, ug/l	0.17	10.0	0.5 J	1.1 J	0.2 J		--- U	06/19/09	LFJ	EPA200.8
Barium, ug/l	0.04	100.0	51.5 J	94.4 J	85 J		0.1 J	06/19/09	LFJ	EPA200.8
Beryllium, ug/l	0.06	1.0	--- U	0.3 J	0.3 J		--- U	06/19/09	LFJ	EPA200.8
Cadmium, ug/l	0.04	1.0	--- U	0.3 J	0.1 J		--- U	06/19/09	LFJ	EPA200.8
Cobalt, ug/l	0.02	10.0	0.1 J	59.7	0.5 J		--- U	06/19/09	LFJ	EPA200.8
Copper, ug/l	0.04	10.0	0.6 J	1.7 J	0.6 J		0.3 J	06/19/09	LFJ	EPA200.8
Total Chromium, ug/l	0.10	10.0	2 J	--- U	1.7 J		--- U	06/19/09	LFJ	EPA200.8
Lead, ug/l	0.04	10.0	--- U	0.2 J	0.1 J		--- U	06/19/09	LFJ	EPA200.8
Mercury, ug/l	0.03	0.20	0.14 J	0.06 J	0.25		--- U	06/19/09	LFJ	EPA200.8
Nickel, ug/l	0.04	50.0	2.8 J	6.2 J	3 J		0.7 J	06/19/09	LFJ	EPA200.8
Selenium, ug/l	0.12	10.0	1.3 J	0.6 J	0.7 J		--- U	06/19/09	LFJ	EPA200.8
Silver, ug/l	0.04	10.0	--- U	--- U	--- U		--- U	06/19/09	LFJ	EPA200.8
Thallium, ug/l	0.03	5.0	--- U	--- U	--- U		--- U	06/19/09	LFJ	EPA200.8
Vanadium, ug/l	0.28	25.0	--- U	0.6 J	0.3 J		--- U	06/19/09	LFJ	EPA200.8
Zinc, ug/l	0.14	10.0	5.8 J	22	11		2 J	06/19/09	LFJ	EPA200.8
Conductivity (at 25c), uMhos	1.0	1.0	168	170	84			06/11/09	RJH	SM2510B
Temperature, °C			16	16	18			06/11/09	RJH	SM2550B
Static Water Level, feet			29.30	25.23	23.08			06/11/09	RJH	
Well Depth, feet			42.92	35.19	39.83			06/11/09	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: 06/11/09
DATE REPORTED: 07/14/09

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Date Analyzed: 06/16/09 MW-A	06/16/09 MW-B	06/17/09 MW-C	06/17/09 MW-D	06/17/09 MW-E
1. Chloromethane	0.18	1.0	--- U	--- U	0.40 J	--- U	--- U
2. Vinyl Chloride	0.34	1.0	0.80 J	10.90	--- U	1.20	2.40
3. Bromomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.29	10.0	0.40 J	0.30 J	--- U	--- U	1.10 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	--- U	1.70 J	7.40 J	1.50 J	1.90 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	0.30 J	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.16	5.0	0.80 J	1.60 J	--- U	--- U	1.00 J
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	0.60 J	8.20	--- U	2.30 J	0.80 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	1.20	0.50 J	--- U	0.70 J	2.80
21. 1,2-Dichloroethane	0.12	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.13	1.0	--- U	8.40	--- 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	--- 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	1.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.16	1.0	--- U	1.30	--- U	0.30 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	4.00	1.70 J	--- U	0.60 J	23.70
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	1.00	--- U	--- U	0.50 J	4.80
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: 06/11/09
DATE REPORTED: 07/14/09

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	06/17/09 MW-F	06/17/09 MW-G	06/17/09 MW-H	06/17/09 MW-I	06/17/09 MW-J
Date Analyzed:			06/17/09	06/17/09	06/17/09	06/17/09	06/17/09
1. Chloromethane	0.18	1.0	0.30 J	0.20 J	--- U	0.20 J	--- U
2. Vinyl Chloride	0.34	1.0	13.90	0.70 J	2.30	14.70	2.20
3. Bromomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.29	10.0	0.90 J	--- U	0.80 J	0.40 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	--- 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	--- U	--- U	--- U	0.20 J	--- U
11. trans-1,2-Dichloroethene	0.13	5.0	0.60 J	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.16	5.0	5.10	--- U	1.10 J	1.90 J	0.40 J
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	59.30	--- U	8.30	9.20	4.40 J
15. 2-Butanone	0.85	100.0	--- U	--- U	0.90 J	--- 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	3.50	--- U	1.00	3.60	0.50 J
21. 1,2-Dichloroethane	0.12	1.0	0.60 J	--- U	--- U	--- U	--- U
22. Trichloroethene	0.13	1.0	2.10	--- U	--- U	0.30 J	0.40 J
23. 1,2-Dichloropropane	0.17	1.0	0.20 J	--- 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	0.40 J	--- U	--- U	0.20 J	--- 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	1.10	0.20 J	--- U	0.20 J	0.50 J
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	15.60	--- U	5.60	20.10	0.70 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	4.10	--- U	1.40	4.50	--- U
44. 1,2-Dichlorobenzene	0.13	5.0	0.20 J	--- 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.

NOTE:Cis 1,2-Dichloroethlene on MW-F exceeded calibration range

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: 06/11/09
DATE REPORTED: 07/14/09

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	06/17/09 MW-K	06/19/09 MW-L	06/19/09 MW-M	06/19/09 Trip Blank	06/19/09 Equipment Blank
	Date Analyzed:						
1. Chloromethane	0.18	1.0	--- U	--- U	--- U	--- U	0.20 J
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	--- U	6.80 J	16.60 J	--- U	1.21 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	0.30 J	0.20 J	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	--- U	1.90 J	1.30 J	--- U	--- U
15. 2-Butanone	0.85	100.0	1.20 J	1.20 J	--- U	--- U	--- U
16. Bromochloromethane	0.11	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.13	5.0	0.30 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	0.30 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	0.30 J	--- 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	--- U	--- U	0.50 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	--- U	0.20 J	1.50 J	--- 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	--- U	0.30 J	--- 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, 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
																						pH CHECK (LAB)
							P	P	P	P		G	G	G								CONTAINER TYPE, P/G
							A	A	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-A 06	11 09	0915		17	5		G	G	G	G	G	G	G	G								
MW-B 06	11 09	0830		16	4		G	G	G	G	G	G	G									
MW-C 06	11 09	0905		15	4		G	G	G	G	G	G	G									
MW-D 06	11 09	1030		16	4		G	G	G	G	G	G	G									
MW-E 06	11 09	1015		18	4		G	G	G	G	G	G	G									
MW-F 06	11 09	0930		19	4		G	G	G	G	G	G	G									
MW-G 06	11 09	0830		16	4		G	G	G	G	G	G	G									
MW-H 06	11 09	0935		18	4		G	G	G	G	G	G	G									
MW-I 06	11 09	0950		16	4		G	G	G	G	G	G	G									
MW-J 06	11 09	1005		16	4		G	G	G	G	G	G	G									
MW-K 06	11 09	1030		16	4		G	G	G	G	G	G	G									

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 Page / Fat

SAMPLES RECEIVED IN LAB AT 0.2 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob Page 06	11 09 1:38	[signature]	6/11 1:38
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

PLEASE READ Instructions for completing this form 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

№ 183930

Environ[illegible] nc.
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 ☐ _____

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
CHLORINE NEUTRALIZED AT COLLECTION													
pH CHECK (LAB)							12				12	12	12
CONTAINER TYPE, P/G						P	P	P	P		G	G	G
CHEMICAL PRESERVATION						A	A	A	A		E	E	E
MW-L 06	11 09	1040		16	4	G	G	G	G	G	G	G	
MW-M 06	11 09	0900		18	5	G	G	G	G	G	G	G	G
Trip Blank					2						G	G	
Equipment Blank 06	11 09				3		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
- ☒ SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY: (Y) N

SAMPLES COLLECTED BY: (Please Print) Hope Fox

SAMPLES RECEIVED IN LAB AT 0.2 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob Hope 06	11 09 1:38	[illegible]	6/11/9 1:38
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

PLEASE READ Instructions for completing this form 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

№ 183929

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
- [ ] _____

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
						P	P	P	P	G	G
						A	A	A	A	E	E
SW-1 06	11 09	1110		24	4	G	G	G	G	G	G
SW-2 06	11 09	1100		24	4	G	G	G	G	G	G
SW-3 06	11 09	0935		18	4	G	G	G	G	G	G
SW-4 06	11 09	1010		23	4	G	G	G	G	G	G

CHLORINE NEUTRALIZED AT COLLECTION
pH CHECK (LAB)
CONTAINER TYPE, P/G
CHEMICAL PRESERVATION

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 Lopez / Fat

SAMPLES RECEIVED IN LAB AT 0.2 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
H Lopez 06	11 09 1:38	[signature]	6/11 1:38
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

PLEASE READ Instructions for completing this form 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.

No. 183928

FORM #5