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 Company, PA

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

Name: Maddie German Phone: (919) 772-5393

E-mail: mgerman@mesco.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Hertford County Closed MSWLF	Winton, NC	46-01	.1600	June 17, 2010

Environmental Status: (Check all that apply)

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

Type of data submitted: (Check all that apply)

☒ Groundwater monitoring data from monitoring wells
☐ 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.

Mark Brown, LG, PG — Sr. Professional Geologist — (919) 772-5393

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

Signature — 8/7/10 Date

Affix NC Licensed/ Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 1711 GEOLOGIST STEPHEN MARK BROWN

PO Box 97, Garner, NC 27529

Facility Representative Address

C-0281

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

Revised 6/2009

Semi-Annual Water Sampling and Analysis Report

Prepared for

Hertford County Closed Unlined MSWLF
Winton, North Carolina

June 2010

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

Completed on August 7, 2010

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

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

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OPERATION/CONSTRUCTION MANAGERS

Municipal Services

CIVIL/SANITARY ENGINEERS

Engineering Company, P.A.

August 7, 2010

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: Semi-Annual Water Quality Report
Hertford County Closed Unlined 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 performed on June 17, 2010 according to the semi-annual monitoring schedule prescribed by the NC Solid Waste Section (SWS) rules/regulations. The latest semi-annual sampling event results indicate VOCs continue to persist within the surficial aquifer at the closed MSWLF, but natural attenuation processes are active.

The comprehensive monitoring program includes sampling locations as outlined in the approved Sampling and Analysis Plan (SAP) contained in the facility *Transition Plan* dated November 1995. The current sampling locations include 13 groundwater monitoring wells and four surface water points. This report contains a summary of sampling procedures, field and laboratory results, groundwater and surface water characterization, and findings. A table of detections compared to Standards, field data results table, groundwater flow directions/rates table, a single-day potentiometric map, quality assurance/quality control data, and full laboratory analytical data results are also enclosed.

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 13 groundwater monitoring wells (MW-A through MW-M) and four surface water sampling points (SW-1 through SW-4). Quality control measures were implemented during this event including submittal and subsequent quantification of equipment blanks (EB) and temperature blanks (TB). Monitoring locations are shown upon the enclosed single-day potentiometric map (Plate 1).

Sampling was reportedly conducted using the method in NCDENR *Solid Waste Section Guidelines for Groundwater, Soil, and Surface Water Sampling* revised April 2008. Water levels were obtained prior to purging in order to quantify the static water level and construct a potentiometric map (Plate 1). Collected samples were transported under proper chain-of-custody (C-O-C) within the specified hold times for each analysis. Required field parameters (pH, specific conductance, and temperature) were measured upon sample extraction.

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

Field and Laboratory Results

The laboratory analyzed groundwater samples for Appendix I volatile organic compounds (VOCs) per EPA 8260B, Appendix I metals via EPA 200.8 and mercury per method EPA 200.8.

Field parameters are included in Appendix A and the data appears to be generally consistent relative to each other and historic data. 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. Table 1 summarizes detected constituents within groundwater and surface water samples above the Solid Waste Section detection limit (SWSL), Groundwater Protection Standards (GWP), North Carolina Groundwater Standards (2L) or the North Carolina Surface Water Standards (2B).

Metals were detected within all of the monitoring well and surface water locations. Only barium, detected in MW-H, exceeded its 2L Standard.

No constituents were detected within any of the surface water samples in concentrations above the applicable 2B Standard.

Quantifiable concentrations (>SWSL) of VOCs continue to be detected in the monitoring wells except for MW-C, MW-K, and MW-M. Downgradient wells (MW-D, MW-E, MW-F, MW-H, MW-I, MW-J, MW-L), crossgradient well MW-A, and upgradient wells MW-B, MW-G contained VOCs in concentrations in exceedance of the 2L Standard. The reduction of the reporting limits to the MDL has increased the number of low level VOC detections during the last several events and should not be misconstrued as a recent release. Monitoring locations were found to contain dissolved phase aromatic hydrocarbons and chlorinated aliphatic hydrocarbons (CAH). VOCs detected in groundwater samples have previously been detected at their respective location. Vinyl chloride is the most prevalent VOC parameter detected about the 2L Standard, indicating a naturally reductive environment across the facility. Natural attenuation is apparent as evidenced by the decrease in parent compounds and an increase in intermediate and daughter products over time.

Groundwater and Surface Water Characterization

MESCO completed and enclosed the single-day potentiometric map from groundwater elevation data obtained from E1 on June 17, 2010 (Plate 1). Groundwater flow rates and directions were calculated based upon this data and is included in the attached Table 2. Groundwater flow within the surficial aquifer continues to be in a general northerly/northwesterly direction towards Potecasi Creek. Groundwater velocities calculated based upon the equipotential contours ranged from approximately <1ft./yr. (MW-C) to 188 ft./yr. (MW-H) averaging approximately 42 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.

Findings

This semi-annual sampling event results indicate VOCs continue to persist within the surficial aquifer at the closed MSWLF. Landfill gas has previously been detected at the facility and may be attributing to the lower level dissolved VOCs within the groundwater, especially in upgradient wells. Potecasi Creek, which serves as the downgradient local discharge feature, remains un-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 closest proximity residents to the property boundary are connected to municipal water effectively limiting the human exposure potential to groundwater.

Closing

The Hertford County Closed Landfill will continue to be monitored, the next water sample collection event is tentatively scheduled for December 2010. If you have any questions or comments regarding this report, please contact me by phone at (919) 772-5393 or by email at mgerman@mesco.com.

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

Madeline German
Geoscientist

Mark Brown, L.G., PG
Senior Professional Geologist

Enclosures
cc: Mr. Melvin Nichols
Hertford County

Tables

Table 1

Detection Scan All Appendix I VOCs, Metals, and Mercury Detected above SWSL, GWP, 2L, or 2B (Current as of Sample Date)
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	06/17/10	1.80	ug/l	0.39	1	6				
MW-A	Barium, ug/l	06/17/10	192	ug/l	0.03	100	700				
MW-A	**Benzene**	**06/17/10**	**1.8**	**ug/l**	**0.24**	**1**	**1**			**0.8**	**L &/or LFG**
MW-A	Chlorobenzene	06/17/10	7.00	ug/l	0.30	3	50				
MW-A	Cobalt, ug/l	06/17/10	291	ug/l	0.10	10			70		
MW-A	**Vinyl Chloride**	**06/17/10**	**1.2**	**ug/l**	**0.63**	**1**	**0.03**			**1.17**	**L &/or LFG**
MW-A	Zinc, ug/l	06/17/10	14	ug/l	0.08	10	1000				
MW-B	Barium, ug/l	06/17/10	133	ug/l	0.03	100	700				
MW-B	Cis-1,2-Dichloroethene	06/17/10	5.60	ug/l	0.25	5	70				
MW-B	Cobalt, ug/l	06/17/10	100	ug/l	0.10	10			70		
MW-B	**Trichloroethene**	**06/17/10**	**5.8**	**ug/l**	**0.23**	**1**	**3**			**2.8**	**O, L &/or LFG**
MW-B	Vanadium, ug/l	06/17/10	5.4	ug/l	0.03	25			3.5		
MW-B	**Vinyl Chloride**	**06/17/10**	**8**	**ug/l**	**0.63**	**1**	**0.03**			**7.97**	**O, L &/or LFG**
MW-B	Zinc, ug/l	06/17/10	14	ug/l	0.08	10	1000				
MW-C	Zinc, ug/l	06/17/10	35	ug/l	0.08	10	1000				
MW-D	Barium, ug/l	06/17/10	114	ug/l	0.03	100	700				
MW-D	Cobalt, ug/l	06/17/10	63	ug/l	0.10	10			70		
MW-D	**Vinyl Chloride**	**06/17/10**	**1.4**	**ug/l**	**0.63**	**1**	**0.03**			**1.37**	**L &/or LFG**
MW-D	Zinc, ug/l	06/17/10	56	ug/l	0.08	10	1000				
MW-E	1,4-Dichlorobenzene	06/17/10	5.50	ug/l	0.39	1	6				
MW-E	Barium, ug/l	06/17/10	149	ug/l	0.03	100	700				
MW-E	**Benzene**	**06/17/10**	**2.9**	**ug/l**	**0.24**	**1**	**1**			**1.9**	**L &/or LFG**
MW-E	Chlorobenzene	06/17/10	23.50	ug/l	0.30	3	50				
MW-E	**Vinyl Chloride**	**06/17/10**	**1.5**	**ug/l**	**0.63**	**1**	**0.03**			**1.47**	**L &/or LFG**
MW-E	Zinc, ug/l	06/17/10	16	ug/l	0.08	10	1000				
MW-F	1,4-Dichlorobenzene	06/17/10	5.00	ug/l	0.39	1	6				
MW-F	Barium, ug/l	06/17/10	466	ug/l	0.03	100	700				
MW-F	**Benzene**	**06/17/10**	**3.5**	**ug/l**	**0.24**	**1**	**1**			**2.5**	**L &/or LFG**
MW-F	Chlorobenzene	06/17/10	18.10	ug/l	0.30	3	50				
MW-F	Cis-1,2-Dichloroethene	06/17/10	58.50	ug/l	0.25	5	70				
MW-F	Cobalt, ug/l	06/17/10	155	ug/l	0.10	10			70		
MW-F	Trichloroethene	06/17/10	1.70	ug/l	0.23	1	3				
MW-F	**Vinyl Chloride**	**06/17/10**	**11.7**	**ug/l**	**0.63**	**1**	**0.03**			**11.67**	**L &/or LFG**
MW-G	Barium, ug/l	06/17/10	123	ug/l	0.03	100	700				
MW-G	**Vinyl Chloride**	**06/17/10**	**1.9**	**ug/l**	**0.63**	**1**	**0.03**			**1.87**	**O, L &/or LFG**
MW-G	Zinc, ug/l	06/17/10	25	ug/l	0.08	10	1000				
MW-H	1,4-Dichlorobenzene	06/17/10	1.70	ug/l	0.39	1	6				
MW-H	**Barium, ug/l**	**06/17/10**	**1061**	**ug/l**	**0.03**	**100**	**700**			**361**	**L &/or LFG**
MW-H	**Benzene**	**06/17/10**	**1.1**	**ug/l**	**0.24**	**1**	**1**			**0.1**	**L &/or LFG**
MW-H	Chlorobenzene	06/17/10	5.20	ug/l	0.30	3	50				
MW-H	Cis-1,2-Dichloroethene	06/17/10	10.60	ug/l	0.25	5	70				
MW-H	Cobalt, ug/l	06/17/10	314	ug/l	0.10	10			70		
MW-H	**Vinyl Chloride**	**06/17/10**	**2.7**	**ug/l**	**0.63**	**1**	**0.03**			**2.67**	**L &/or LFG**

Sample ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [2]	SWSL [3]	2L [4]	2B [5]	GWP [6]	Exceedance	Preliminary Cause
MW-I	**1,4-Dichlorobenzene**	**06/17/10**	**6.7**	**ug/l**	**0.39**	**1**	**6**			**0.7**	**L &/or LFG**
MW-I	Barium, ug/l	06/17/10	240	ug/l	0.03	100	700				
MW-I	**Benzene**	**06/17/10**	**3.6**	**ug/l**	**0.24**	**1**	**1**			**2.6**	**L &/or LFG**
MW-I	Chlorobenzene	06/17/10	21.90	ug/l	0.30	3	50				
MW-I	Cis-1,2-Dichloroethene	06/17/10	7.20	ug/l	0.25	5	70				
MW-I	Cobalt, ug/l	06/17/10	78	ug/l	0.10	10			70		
MW-I	**Vinyl Chloride**	**06/17/10**	**13.4**	**ug/l**	**0.63**	**1**	**0.03**			**13.37**	**L &/or LFG**
MW-I	Zinc, ug/l	06/17/10	26	ug/l	0.08	10	1000				
MW-J	Cis-1,2-Dichloroethene	06/17/10	5.70	ug/l	0.25	5	70				
MW-J	**Tetrachloroethene**	**06/17/10**	**1.3**	**ug/l**	**0.17**	**1**	**0.7**			**0.6**	**L &/or LFG**
MW-J	**Vinyl Chloride**	**06/17/10**	**3.1**	**ug/l**	**0.63**	**1**	**0.03**			**3.07**	**L &/or LFG**
MW-J	Zinc, ug/l	06/17/10	20	ug/l	0.08	10	1000				
MW-K	Zinc, ug/l	06/17/10	20	ug/l	0.08	10	1000				
MW-L	Cobalt, ug/l	06/17/10	87	ug/l	0.10	10			70		
MW-L	**Vinyl Chloride**	**06/17/10**	**1.8**	**ug/l**	**0.63**	**1**	**0.03**			**1.77**	**L &/or LFG**
MW-L	Zinc, ug/l	06/17/10	35	ug/l	0.08	10	1000				
MW-M	Barium, ug/l	06/17/10	125	ug/l	0.03	100	700				
MW-M	Vanadium, ug/l	06/17/10	5.0	ug/l	0.03	25			3.5		
MW-M	Zinc, ug/l	06/17/10	17	ug/l	0.08	10	1000				
SW-1	Vanadium, ug/l	06/17/10	4.1	ug/l	0.03	25		NE	3.5		
SW-1	Zinc, ug/l	06/17/10	17	ug/l	0.08	10		50			
SW-2	Zinc, ug/l	06/17/10	19	ug/l	0.08	10		50			
SW-4	Barium, ug/l	06/17/10	276	ug/l	0.03	100		20000			
SW-4	Toluene	06/17/10	9.30	ug/l	0.23	1		11			

[1] Table only contains detected constituents detected above the SWSL, GWP, 2L or 2B Standards (Current as of Sampling Event)
[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)
[J] =The reported value is estimated & between the laboratory MDL & the SWSL, adjusted for actual sample preparation data and moisture conte
L = Leachate
LFG = Landfill Gas
O = Offsite
NE = Not Established
BOLD = Concentration => 2L or 2B Standard (Current as of Sampling Event)

Table 2
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%	0.0048	18	N00W	26.01	24.24	Sand	Crossgradient
MW-B	6.90E-04	20%	0.0024	8	N35W	24.92	24.85	Sand	Upgradient
MW-C	1.10E-04	20%	0.0014	0.8	N57W	20.67	24.91	Clayey Sand	Upgradient
MW-D	4.40E-04	20%	0.0068	15	N00E	27.62	20.69	Clayey Silt	Downgradient
MW-E	3.10E-03	20%	0.0033	54	N74W	27.11	20.75	Sand	Downgradient
MW-F	3.10E-03	20%	0.0020	31	N61W	30.91	18.58	Clayey Sand	Downgradient
MW-G	1.80E-03	20%	0.0019	18	N30W	24.92	25.18	Sand	Upgradient
MW-H	4.60E-03	20%	0.0042	101	N53E	27.65	17.81	Sand	Downgradient
MW-I	1.10E-03	20%	0.0026	15	N82W	30.11	17.89	Sand	Downgradient
MW-J	1.20E-03	20%	0.0051	32	N71W	27.53	18.73	Sand	Downgradient
MW-K	3.50E-03	20%	0.0008	15	N21E	28.93	19.88	Sand	Downgradient
MW-L	1.60E-04	20%	0.0034	3	N12W	24.98	21.43	Sand	Downgradient
MW-M	1.20E-03	20%	0.0056	35	N00W	22.78	24.99	Sand	Crossgradient

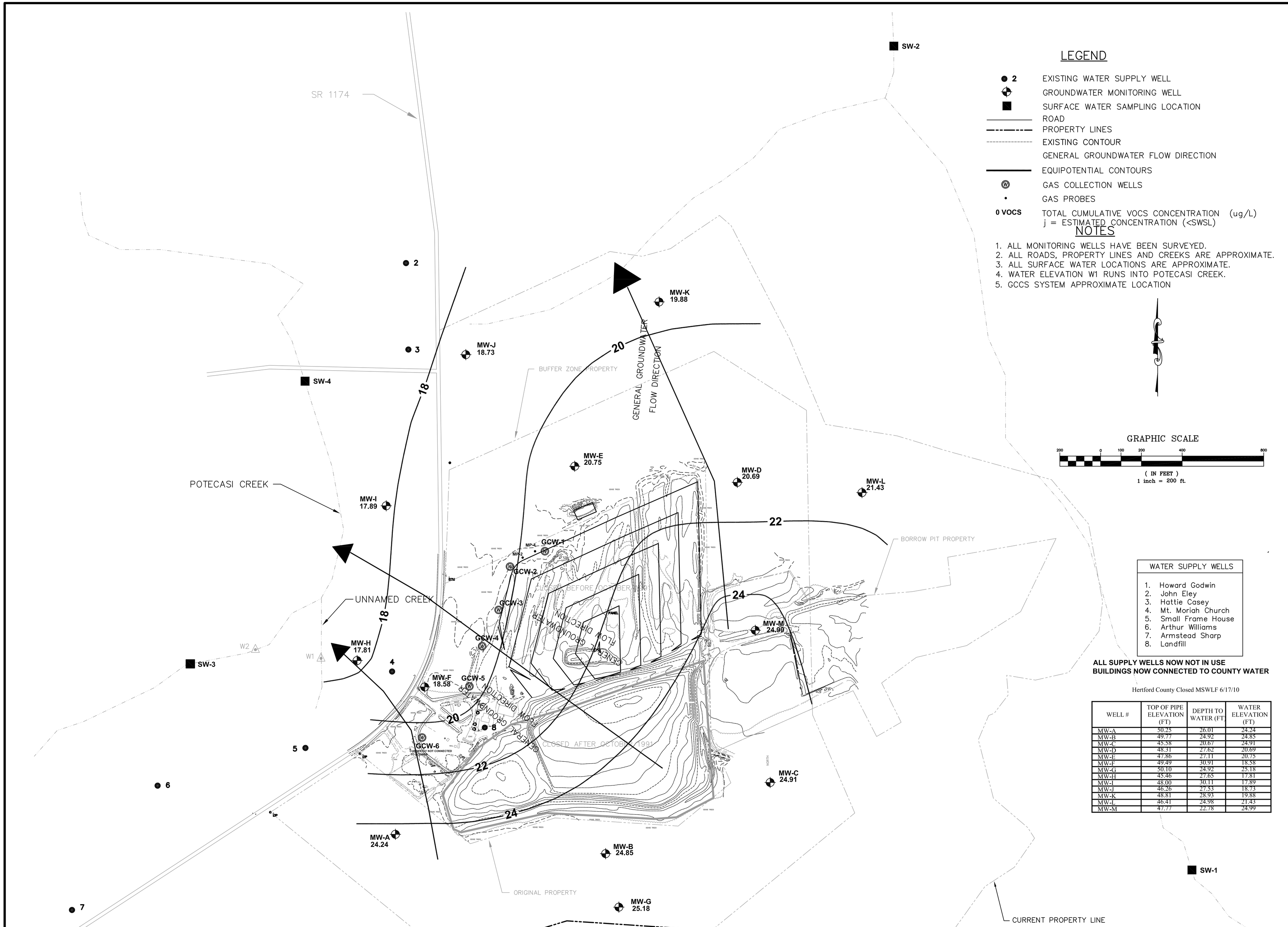
NOTE: Data for effective porosity & hydraulic conductivities obtained from GAI Consultants' Assessment Report (Feb. 1996)
Hydrologic Gradient taken from the June 17, 2010 sampling event.
Flow rate (Q) is defined by the equation:

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

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

Mean v_x: 27
Median v_x: 18

Plates



LEGEND

- ● 2 — EXISTING WATER SUPPLY WELL
- GROUNDWATER MONITORING WELL
- SURFACE WATER SAMPLING LOCATION
- ROAD
- PROPERTY LINES
- EXISTING CONTOUR
- GENERAL GROUNDWATER FLOW DIRECTION
- EQUIPOTENTIAL CONTOURS
- GAS COLLECTION WELLS
- GAS PROBES
- 0 VOCS — TOTAL CUMULATIVE VOCS CONCENTRATION (ug/L)
  j = ESTIMATED CONCENTRATION (<SWSL)

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

200 0 100 200 400 800

(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 6/17/10

WELL #	TOP OF PIPE ELEVATION (FT)	DEPTH TO WATER (FT)	WATER ELEVATION (FT)
MW-A	50.25	26.01	24.24
MW-B	49.77	24.92	24.85
MW-C	45.58	20.67	24.91
MW-D	48.31	27.62	20.69
MW-E	47.86	27.11	20.75
MW-F	49.49	30.91	18.58
MW-G	50.10	24.92	25.18
MW-H	45.46	27.65	17.81
MW-I	48.00	30.11	17.89
MW-J	46.26	27.53	18.73
MW-K	48.81	28.93	19.88
MW-L	46.41	24.98	21.43
MW-M	47.77	22.78	24.99

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

MUNICIPAL SOLID WASTE LANDFILL FACILITY
HERTFORD COUNTY NORTH CAROLINA

DATE	BY	REV.	DESCRIPTION

SINGLE DAY POTENTIOMETRIC MAP UPPERMOST AQUIFER

SCALE:	1" = 200'
DATE:	2/10/10
DRWN. BY:	J PFOHL
CHKD. BY:	M BROWN
PROJECT NUMBER	G10012.0
DRAWING NO.	PLATE 1
SHEET NO.	1 OF 1

Appendix A
Laboratory Analysis Report &
Chain of Custodies

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: 06/17/10
DATE REPORTED : 06/25/10

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW-A	MW-B	MW-C	MW-D	MW-E	Analysis Date	Analyst	Method Code
PH (field measurement), Units			5.9	5.8	5.1	5.6	5.7	06/17/10	RJH	SM4500HB
Antimony, ug/l	0.22	6.0	--- U	--- U	--- U	--- U	--- U	06/24/10	CMF	EPA200.8
Arsenic, ug/l	0.04	10.0	3.4 J	8.0 J	--- U	1.5 J	9.8 J	06/24/10	CMF	EPA200.8
Barium, ug/l	0.03	100.0	192	133	77.6 J	114	149	06/24/10	CMF	EPA200.8
Beryllium, ug/l	0.02	1.0	0.1 J	0.2 J	1	0.1 J	0.2 J	06/24/10	CMF	EPA200.8
Cadmium, ug/l	0.02	1.0	0.4 J	0.1 J	--- U	--- U	--- U	06/24/10	CMF	EPA200.8
Cobalt, ug/l	0.10	10.0	291	100	7.6 J	63	60	06/24/10	CMF	EPA200.8
Copper, ug/l	0.03	10.0	1.2 J	1.6 J	1.3 J	0.8 J	2.5 J	06/24/10	CMF	EPA200.8
Total Chromium, ug/l	0.03	10.0	--- U	2.2 J	--- U	--- U	--- U	06/24/10	CMF	EPA200.8
Lead, ug/l	0.01	10.0	0.2 J	0.9 J	0.3 J	0.1 J	0.4 J	06/24/10	CMF	EPA200.8
Mercury, ug/l	0.08	0.20	--- U	--- U	--- U	--- U	--- U	06/24/10	CMF	EPA200.8
Nickel, ug/l	0.05	50.0	5.7 J	14.5 J	6.1 J	7.3 J	5.9 J	06/24/10	CMF	EPA200.8
Selenium, ug/l	0.32	10.0	0.7 J	0.6 J	0.9 J	0.8 J	0.5 J	06/24/10	CMF	EPA200.8
Silver, ug/l	0.03	10.0	0.1 J	--- U	--- U	--- U	--- U	06/24/10	CMF	EPA200.8
Thallium, ug/l	0.05	5.0	--- U	--- U	--- U	--- U	--- U	06/24/10	CMF	EPA200.8
Vanadium, ug/l	0.03	25.0	--- U	5.4 J	1.4 J	1.1 J	2.1 J	06/24/10	CMF	EPA200.8
Zinc, ug/l	0.08	10.0	14	14	35	56	16	06/24/10	CMF	EPA200.8
Conductivity (at 25c), uMhos	1.0	1.0	547	307	73	349	368	06/17/10	RJH	SM2510B
Temperature, °C			19	17	16	17	19	06/17/10	RJH	SM2550B
Static Water Level, feet			26.01	24.92	20.67	27.62	27.11	06/17/10	RJH	
Well Depth, feet			30.41	28.85	25.20	35.49	35.39	06/17/10	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: 06/17/10
DATE REPORTED : 06/25/10

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	5.9	6.3	5.8	5.6	06/17/10	RJH	SM4500HB
Antimony, ug/l	0.22	6.0	--- U	--- U	--- U	--- U	--- U	06/24/10	CMF	EPA200.8
Arsenic, ug/l	0.04	10.0	1.8 J	0.7 J	2.0 J	3.1 J	0.3 J	06/24/10	CMF	EPA200.8
Barium, ug/l	0.03	100.0	466	123	1061	240	92.5 J	06/24/10	CMF	EPA200.8
Beryllium, ug/l	0.02	1.0	0.1 J	0.1 J	0.1 J	0.1 J	0.2 J	06/24/10	CMF	EPA200.8
Cadmium, ug/l	0.02	1.0	--- U	--- U	--- U	--- U	0.2 J	06/24/10	CMF	EPA200.8
Cobalt, ug/l	0.10	10.0	155	5.2 J	314	78	9.2 J	06/24/10	CMF	EPA200.8
Copper, ug/l	0.03	10.0	0.4 J	0.6 J	0.2 J	0.5 J	0.4 J	06/24/10	CMF	EPA200.8
Total Chromium, ug/l	0.03	10.0	--- U	--- U	--- U	--- U	0.4 J	06/24/10	CMF	EPA200.8
Lead, ug/l	0.01	10.0	--- U	0.1 J	--- U	0.1 J	0.1 J	06/24/10	CMF	EPA200.8
Mercury, ug/l	0.08	0.20	--- U	--- U	--- U	--- U	--- U	06/24/10	CMF	EPA200.8
Nickel, ug/l	0.05	50.0	8.8 J	7.8 J	35.8 J	7.9 J	6.2 J	06/24/10	CMF	EPA200.8
Selenium, ug/l	0.32	10.0	0.8 J	05 J	--- U	1.2 J	0.7 J	06/24/10	CMF	EPA200.8
Silver, ug/l	0.03	10.0	--- U	--- U	0.1 J	0.1 J	--- U	06/24/10	CMF	EPA200.8
Thallium, ug/l	0.05	5.0	--- U	--- U	0.6 J	0.1 J	--- U	06/24/10	CMF	EPA200.8
Vanadium, ug/l	0.03	25.0	--- U	1.4 J	--- U	0.5 J	0.7 J	06/24/10	CMF	EPA200.8
Zinc, ug/l	0.08	10.0	4.4 J	25	4.0 J	26	20	06/24/10	CMF	EPA200.8
Conductivity (at 25c), uMhos	1.0	1.0	922	290	525	528	217	06/17/10	RJH	SM2510B
Temperature, °C			20	17	17	17	16	06/17/10	RJH	SM2550B
Static Water Level, feet			30.91	24.92	27.65	30.11	27.53	06/17/10	RJH	
Well Depth, feet			35.28	39.65	37.11	36.47	38.45	06/17/10	RJH	

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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: 06/17/10
DATE REPORTED : 06/25/10

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW-K	MW-L	MW-M	Equipment Blank	Trip Blank	Analysis Date	Analyst	Method Code
PH (field measurement), Units			5.8	5.7	5.1			06/17/10	RJH	SM4500HB
Antimony, ug/l	0.22	6.0	--- U	--- U	--- U	--- U		06/24/10	CMF	EPA200.8
Arsenic, ug/l	0.04	10.0	--- U	1.2 J	--- U	--- U		06/24/10	CMF	EPA200.8
Barium, ug/l	0.03	100.0	41.9 J	99.8 J	125	--- U		06/24/10	CMF	EPA200.8
Beryllium, ug/l	0.02	1.0	0.1 J	0.2 J	0.5 J	--- U		06/24/10	CMF	EPA200.8
Cadmium, ug/l	0.02	1.0	--- U	0.1 J	--- U	--- U		06/24/10	CMF	EPA200.8
Cobalt, ug/l	0.10	10.0	--- U	87	5.6 J	--- U		06/24/10	CMF	EPA200.8
Copper, ug/l	0.03	10.0	0.6 J	1.3 J	1.9 J	0.3 J		06/24/10	CMF	EPA200.8
Total Chromium, ug/l	0.03	10.0	1.9 J	0.7 J	3.1 J	--- U		06/24/10	CMF	EPA200.8
Lead, ug/l	0.01	10.0	--- U	0.5 J	1.8 J	--- U		06/24/10	CMF	EPA200.8
Mercury, ug/l	0.08	0.20	--- U	--- U	--- U	--- U		06/24/10	CMF	EPA200.8
Nickel, ug/l	0.05	50.0	2.2 J	7.8 J	3.1 J	0.3 J		06/24/10	CMF	EPA200.8
Selenium, ug/l	0.32	10.0	1.1 J	0.4 J	1.5 J	--- U		06/24/10	CMF	EPA200.8
Silver, ug/l	0.03	10.0	--- U	--- U	--- U	--- U		06/24/10	CMF	EPA200.8
Thallium, ug/l	0.05	5.0	--- U	--- U	--- U	--- U		06/24/10	CMF	EPA200.8
Vanadium, ug/l	0.03	25.0	--- U	2.8 J	5.0 J	--- U		06/24/10	CMF	EPA200.8
Zinc, ug/l	0.08	10.0	20	35	17	15		06/24/10	CMF	EPA200.8
Conductivity (at 25c), uMhos	1.0	1.0	157	255	103			06/17/10	RJH	SM2510B
Temperature, °C			17	17	19			06/17/10	RJH	SM2550B
Static Water Level, feet			28.93	24.98	22.78			06/17/10	RJH	
Well Depth, feet			42.92	35.19	39.83			06/17/10	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: 06/17/10
DATE REPORTED: 06/25/10

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Date Analyzed: 06/18/10 MW-A	06/17/10 MW-B	06/18/10 MW-C	06/18/10 MW-D	06/18/10 MW-E
1. Chloromethane	0.77	1.0	--- U	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.63	1.0	1.20	8.00	--- U	1.40	1.50
3. Bromomethane	0.67	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.48	10.0	0.70 J	--- U	--- U	--- U	1.10 J
5. Trichlorofluoromethane	0.24	1.0	--- U	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U	--- U	--- U	--- U	--- U
7. Acetone	9.06	100.0	--- U	--- U	--- U	--- U	--- U
8. Iodomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.23	100.0	--- U	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.64	1.0	--- U	--- U	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U	0.30 J	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.20	5.0	1.30 J	1.20 J	--- U	0.40 J	0.80 J
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	0.70 J	5.60	--- U	3.00 J	0.70 J
15. 2-Butanone	2.21	100.0	--- U	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.27	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.25	5.0	--- U	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.24	1.0	1.80	0.30 J	--- U	0.90 J	2.90
21. 1,2-Dichloroethane	0.27	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.23	1.0	--- U	5.80	--- U	0.30 J	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.23	1.0	--- U	--- U	--- U	--- U	0.30 J
28. trans-1,3-Dichloropropene	0.28	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.17	1.0	--- U	0.60 J	--- U	0.40 J	--- U
31. 2-Hexanone	1.57	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.24	3.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.30	3.0	7.00	0.80 J	--- U	1.00 J	23.50
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.21	1.0	--- U	--- U	--- U	--- U	--- U
37. Xylenes	0.68	5.0	--- U	--- U	--- U	--- U	--- U
38. Dibromomethane	0.28	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.19	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.20	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	1.80	--- U	--- U	0.90 J	5.50
44. 1,2-Dichlorobenzene	0.32	5.0	--- U	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U	--- U	--- U	--- U	--- U
46. Acrylonitrile	2.72	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	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: 06/17/10
DATE REPORTED: 06/25/10

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Date Analyzed: 06/18/10 MW-F	06/18/10 MW-G	06/18/10 MW-H	06/18/10 MW-I	06/18/10 MW-J
1. Chloromethane	0.77	1.0	--- U	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.63	1.0	11.70	1.90	2.70	13.40	3.10
3. Bromomethane	0.67	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.48	10.0	1.10 J	--- U	0.70 J	0.50 J	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U	--- U	--- U	--- U	--- U
7. Acetone	9.06	100.0	--- U	--- U	--- U	--- U	--- U
8. Iodomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.23	100.0	--- U	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.64	1.0	--- U	--- U	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	0.50 J	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.20	5.0	4.50 J	--- U	1.40 J	1.70 J	0.70 J
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	58.50	--- U	10.60	7.20	5.70
15. 2-Butanone	2.21	100.0	--- U	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.27	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.25	5.0	--- U	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.24	1.0	3.50	--- U	1.10	3.60	0.70 J
21. 1,2-Dichloroethane	0.27	1.0	0.50 J	--- U	--- U	--- U	--- U
22. Trichloroethene	0.23	1.0	1.70	0.30 J	0.30 J	--- U	0.70 J
23. 1,2-Dichloropropane	0.21	1.0	--- U	--- U	--- U	0.30 J	--- U
24. Bromodichloromethane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.23	1.0	0.60 J	--- U	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.17	1.0	0.70 J	0.20 J	--- U	0.20 J	1.30
31. 2-Hexanone	1.57	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.24	3.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.30	3.0	18.10	--- U	5.20	21.90	0.70 J
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.21	1.0	--- U	--- U	--- U	--- U	--- U
37. Xylenes	0.68	5.0	--- U	--- U	--- U	--- U	--- U
38. Dibromomethane	0.28	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.19	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.20	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	5.00	--- U	1.70	6.70	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U	--- U	--- U	--- U	--- U
46. Acrylonitrile	2.72	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	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: 06/17/10
DATE REPORTED: 06/25/10

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	Date Analyzed MDL	SWSL	06/18/10 MW-K	06/18/10 MW-L	06/18/10 MW-M	06/18/10 Equipment Blank	06/18/10 Trip Blank
1. Chloromethane	0.77	1.0	--- U	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.63	1.0	--- U	1.80	--- U	--- U	--- U
3. Bromomethane	0.67	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.48	10.0	--- U	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U	--- U	--- U	--- U	--- U
7. Acetone	9.06	100.0	--- U	--- U	--- U	--- U	127.00
8. Iodomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.23	100.0	--- U	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.64	1.0	--- U	--- U	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.20	5.0	--- U	0.30 J	--- U	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	--- U	2.70 J	0.60 J	--- U	--- U
15. 2-Butanone	2.21	100.0	--- U	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.27	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.25	5.0	--- U	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.24	1.0	--- U	0.60 J	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.27	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.23	1.0	--- U	0.30 J	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.17	1.0	--- U	0.20 J	--- U	--- U	--- U
31. 2-Hexanone	1.57	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.24	3.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.30	3.0	--- U	0.50 J	2.20 J	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.21	1.0	--- U	--- U	--- U	--- U	--- U
37. Xylenes	0.68	5.0	--- U	--- U	--- U	--- U	--- U
38. Dibromomethane	0.28	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.19	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.20	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	--- U	0.50 J	0.40 J	--- U	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U	--- U	--- U	--- U	--- U
46. Acrylonitrile	2.72	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	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
- ☐ _____

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 (PARAMETERS)						A	A	A	A		E	E	E
MW-L	06/17/10	0950		17	4	G	G	G	G	G	G	G	
MW-M	06/17/10	0935		19	5	G	G	G	G	G	G	G	G
Equipment Blank	06/17/10				3		G				G	G	
Trip Blank					2						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
- ☒ SOLID WASTE SECTION

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

SAMPLES COLLECTED BY:
(Please Print)
[illegible]

SAMPLES RECEIVED IN LAB AT 02 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
[illegible]	06/17/10	[illegible]	06/17 2:19
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

№ 206229

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)		02				02	02	02									
CONTAINER TYPE, P/G	P	P	P	P		G	G	G									
CHEMICAL PRESERVATION	A	A	A	A		E	E	E									
PARAMETERS	Field pH	Metals	Conductivity	Temperature	Field Parameter	EPA 8260B	8260 Dup. 1	8260 Dup. 2									

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

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	17 10	1050		19	5	G	G	G	G	G	G	G	G
MW-B 06	17 10	1115		17	4	G	G	G	G	G	G	G	
MW-C 06	17 10	0930		16	4	G	G	G	G	G	G	G	
MW-D 06	17 10	0940		17	4	G	G	G	G	G	G	G	
MW-E 06	17 10	1005		19	4	G	G	G	G	G	G	G	
MW-F 06	17 10	1100		20	4	G	G	G	G	G	G	G	
MW-G 06	17 10	1110		17	4	G	G	G	G	G	G	G	
MW-H 06	17 10	1040		17	4	G	G	G	G	G	G	G	
MW-I 06	17 10	1030		17	4	G	G	G	G	G	G	G	
MW-J 06	17 10	1015		16	4	G	G	G	G	G	G	G	
MW-K 06	17 10	0955		17	4	G	G	G	G	G	G	G	

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

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

SAMPLES COLLECTED BY: (Please Print) Hogge / Fox

SAMPLES RECEIVED IN LAB AT 02 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob Hogge 06	1710	[signature]	6/17 2:19
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

№ 206230

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: 06/17/10
DATE REPORTED : 06/25/10

REVIEWED BY:

PARAMETERS	MDL	SWSL	SW-1	SW-2	SW-3	SW-4	Analysis Date	Analyst	Method Code
PH (field measurement), Units			6.0	6.1	Missing	6.6	06/17/10	RJH	SM4500HB
Antimony, ug/l	0.22	6.0	--- U	--- U	Missing	--- U	06/24/10	CMF	EPA200.8
Arsenic, ug/l	0.04	10.0	1.4 J	1.5 J	Missing	0.7 J	06/24/10	CMF	EPA200.8
Barium, ug/l	0.03	100.0	70.9 J	56.4 J	Missing	276	06/24/10	CMF	EPA200.8
Beryllium, ug/l	0.02	1.0	0.1 J	0.1 J	Missing	0.1 J	06/24/10	CMF	EPA200.8
Cadmium, ug/l	0.02	1.0	0.2 J	--- U	Missing	0.3 J	06/24/10	CMF	EPA200.8
Cobalt, ug/l	0.10	10.0	9.3 J	8.0 J	Missing	7.4 J	06/24/10	CMF	EPA200.8
Copper, ug/l	0.03	10.0	1.6 J	1.2 J	Missing	1.0 J	06/24/10	CMF	EPA200.8
Total Chromium, ug/l	0.03	10.0	0.8 J	0.8 J	Missing	--- U	06/24/10	CMF	EPA200.8
Lead, ug/l	0.01	10.0	2.0 J	1.4 J	Missing	0.5 J	06/24/10	CMF	EPA200.8
Nickel, ug/l	0.05	50.0	1.7 J	1.8 J	Missing	1.5 J	06/24/10	CMF	EPA200.8
Selenium, ug/l	0.32	10.0	--- U	--- U	Missing	0.7 J	06/24/10	CMF	EPA200.8
Silver, ug/l	0.03	10.0	--- U	--- U	Missing	--- U	06/24/10	CMF	EPA200.8
Thallium, ug/l	0.05	5.0	--- U	--- U	Missing	--- U	06/24/10	CMF	EPA200.8
Vanadium, ug/l	0.03	25.0	4.1 J	3.1 J	Missing	1.3 J	06/24/10	CMF	EPA200.8
Zinc, ug/l	0.08	10.0	17	19	Missing	9.1 J	06/24/10	CMF	EPA200.8
Conductivity (at 25c), uMhos	1.0	1.0	63	72	Missing	283	06/17/10	RJH	SM2510B
Temperature, °C			26	25	Missing	25	06/17/10	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: 06/17/10
DATE ANALYZED: 06/18/10
DATE REPORTED: 06/25/10

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	SW-1	SW-2	SW-4
1. Chloromethane	0.77	1.0	--- U	--- U	--- U
2. Vinyl Chloride	0.63	1.0	--- U	--- U	--- U
3. Bromomethane	0.67	10.0	--- U	--- U	--- U
4. Chloroethane	0.48	10.0	--- U	--- U	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U	--- U	--- U
7. Acetone	9.06	100.0	--- U	--- U	--- U
8. Iodomethane	0.26	10.0	--- U	--- U	--- U
9. Carbon Disulfide	0.23	100.0	--- U	--- U	--- U
10. Methylene Chloride	0.64	1.0	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.20	5.0	--- U	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	--- U	--- U	--- U
15. 2-Butanone	2.21	100.0	--- U	--- U	--- U
16. Bromochloromethane	0.27	3.0	--- U	--- U	--- U
17. Chloroform	0.25	5.0	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U	--- U	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U	--- U	--- U
20. Benzene	0.24	1.0	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.27	1.0	--- U	--- U	--- U
22. Trichloroethene	0.23	1.0	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U	--- U	--- U
24. Bromodichloromethane	0.21	1.0	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U	--- U	--- U
27. Toluene	0.23	1.0	--- U	--- U	9.30
28. trans-1,3-Dichloropropene	0.28	1.0	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U	--- U	--- U
30. Tetrachloroethene	0.17	1.0	--- U	--- U	--- U
31. 2-Hexanone	1.57	50.0	--- U	--- U	--- U
32. Dibromochloromethane	0.24	3.0	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U	--- U	--- U
34. Chlorobenzene	0.30	3.0	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U	--- U	--- U
36. Ethylbenzene	0.21	1.0	--- U	--- U	--- U
37. Xylenes	0.68	5.0	--- U	--- U	--- U
38. Dibromomethane	0.28	10.0	--- U	--- U	--- U
39. Styrene	0.19	1.0	--- U	--- U	--- U
40. Bromoform	0.20	3.0	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U	--- U	--- U
46. Acrylonitrile	2.72	200.0	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	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
																					A - NONE D - NAOH
																					B - HNO_3 E - HCL
																					C - H_2SO_4 F - ZINC ACETATE
																					G - NA THIOSULFATE
																					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										
						P	P	P	P	G	G										
						A	A	A	A	E	E										
SW-1 06	1710	1135		26	4	G	G	G	G	G	G										
SW-2 06	1710	1130		25	4	G	G	G	G	G	G										
~~SW-3 06~~	~~1710~~				~~4~~																
SW-4 06	1710	1025		25	4	G	G	G	G	G	G										

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 Cope / F of

SAMPLES RECEIVED IN LAB AT 02 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob H Cope 06	1710	[signature]	6/17 2:19
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:
SW3 - DRY

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

№ 206228