Semi-Annual Water Quality Monitoring Report

Prepared for

Lenoir County Subtitle D Lined MSWLF
LaGrange, North Carolina

July 2012

Permit Number: 54-09
MESCO Project Number: G12029.0

Submitted on November 6, 2012

P.O. Box 97
Garner, NC 27529
License No. C-0281

Municipal Services Garner, NC
Engineering Company, P.A. Boone, NC
Municipal Engineering Services Company, P.A.
Garner and Boone , 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)
Lenoir County Subtitle D Lined MSWLF, Phase 1	2949 Hodges Farm Road LaGrange, NC 28501	54-09	.1600	July 24, 2012

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.

D. Mark Durway, L.G. Geologist (919) 772-5393

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

D. Mark Durway 11/2/12

Signature Date

Affix NC Licensed/ Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 0875 GEOLOGIST D. MARK DURWAY

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

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License No. C-0281

CIVIL/SANITARY/ENVIRONMENTAL ENGINEERS

SOLID WASTE MANAGEMENT

Municipal Services Engineering Company, P.A.

SITE PLANNING/SUBDIVISIONS

SUBSURFACE UTILITY ENGINEERING (SUE)

November 6, 2012

Ms. Jaclynne Drummond
Solid Waste Section
NC DENR Division of Waste Management
217 West Jones Street
Raleigh, NC 27605

Re: ***Semi-Annual Water Quality Monitoring Report***
Lenoir County Subtitle D Lined Landfill, Phase 1
Permit No. 54-09
MESCO Project No. G12029.0

Dear Ms. Drummond:

Introduction

On behalf of Lenoir County, Municipal Engineering Services Company, P.A. (MESCO) is pleased to present this *Semi-Annual Water Quality Report* for the Summer 2012 event performed at the Lenoir County Subtitle D Lined Municipal Solid Waste Landfill (MSWLF), Phase 1. NCDENR Solid Waste Rules 15A NCAC 13B.1632 requires that Lenoir County provide this report to the SWS on a semi-annual basis. This report documents the quality of the groundwater, surface waters and leachate during this monitoring event performed on July 24, 2012. Laboratory analytical results indicate that targeted constituents were not detected in concentrations in exceedance of North Carolina Groundwater Standards (2L) during this event.

Background

The Lenoir County Subtitle D lined MSWLF, permit #54-09, is located at 2949 Hodges Farm Road, LaGrange, North Carolina. The site location topographic map is depicted in the attached **Figure 1**. The lined MSWLF is not currentlly accepting waste.

Water quality at this facility has been monitored at least semi-annually since prior to operation in 2003 with all historical analytical data available for trend comparison.

As specified within 15A NCAC 13B.1632(j) and the SWS Environmental Monitoring Report Form this report contains sampling procedures, field and laboratory results, groundwater and surface water characterization. Detections compared to Standards tables, a groundwater flow directions/rates table, a field observations table, a field data results table, potentiometric map, quality assurance/quality control data, and laboratory analytical data results are also enclosed.

As specified in rule 15A NCAC 13B.1632(i) and the SWS Environmental Monitoring Report Form, this report contains sampling procedures, field and laboratory results, groundwater and surface water characterization, and findings. Detections compared to Standards tables, hydrologic properties table, a potentiometric map, and field and laboratory analytical results with chains of custody (C-O-C) are enclosed.

PO Box 97, Garner, North Carolina 27529 (919) 772-5393 PO Box 349, Boone, NC 28607 (828) 262-1767

Sampling Procedure

Environment 1 (E1) of Greenville, NC reportedly performed this sampling event utilizing portable monitoring methodology in accordance with the approved Sampling & Analysis Plan (SAP) contained in the Lenoir County Landfill, Phase 1 *Design Hydrogeologic Study* dated August 19, 2002. E1 reportedly collected water samples from four downgradient groundwater monitoring wells (MW-14 through MW-17), two background wells (MW-13 and MW-18), and the the leachate lagoon (LAGOON). Quality control measures implemented during this event included submittal and analysis of a trip blank (TB) and equipment blank (EB). Additional static water level readings were recorded from eleven supplementary piezometers (P-3A, P1-4, P1-14, P-14, P-17, P-22, P2-4, P2-9, P2-10, MW-19S and MW-19D) to improve potentiometric map coverage. Surface water sample point SW-3 was dry. Monitoring locations are shown in **Figure 2**.

Field Parameter Data

E1 reported the field parameters [pH, static water levels, specific conductance, temperature, turbidity, oxidation reduction potential (ORP) and dissolved oxygen (DO)] in the laboratory analysis report (**Appendix A)**.

Laboratory Results

Groundwater monitoring wells contained in the SAP and EB were analyzed for the Appendix I list of volatile organic compounds (VOCs) and total metals as listed in CFR Part 258. TB was analyzed for the Appendix I list of VOCs. The lined leachate lagoon (LAGOON) samples were tested for the SWS required leachate specific parameters (Appendix I VOCs and metals, nitrate, phosphorus, chemical oxygen demand, biological oxygen demand, pH, and sulfate). E1 documentation indicates samples were transported under C-O-C protocols and analyzed within the specified hold times for each method. Water samples were analyzed to the laboratory-established Method Detection Limits (MDL), which are at or below the current Solid Waste Section Limits (SWSL). A sampling and analysis table summarizing the locations, target parameters and laboratory methods is presented as **Table 1**. Laboratory results and COC are presented in **Appendix A**.

Quality Control Samples

Constituents were not reported in quantifiable concentrations in either TB or EB. Therefore, it appears that the data set's validity is likely not effected by false positives or high bias attributed to field or laboratory artifact contamination.

Groundwater Samples

Constituents were not detected in a concentrations exceeding the 2L Standard during this event. Constituents detected in groundwater samples that attain or are above the current SWSL or Groundwater Protection Standards are summarized in **Table 2**.

Surface Water Samples

Surface water monitoring point SW-3 was dry; thus, no surface water information was reported for this event.

Leachate Samples

Appendix I constituents were not detected in a quantifiable concentration in the leachate sample (LAGOON) as summarized in **Table 3**.

Groundwater and Surface Water Characterization

A single-day potentiometric map of the surficial aquifer created from groundwater elevation data recorded on July 24, 2012 is presented as **Figure 2.** Groundwater flow rates and directions were calculated based on this data and are included in **Table 4.** Groundwater flow was in a general northeasterly direction towards the designated wetlands and rates calculated by modified Darcy's equation ranged from approximately 2 feet/year (MW-18) to 268 feet/year (MW-14) with an average of all wells of 115 feet/year. Surface water sampling location SW-3 has reportedly been dry during each monitoring event since July 2007. Flow directions and gradients are generally consistent with historical observations.

Findings

Laboratory data results continue to indicate that groundwater around the MSWLF and leachate lagoon remain unimpacted.

Closing

Detection monitoring will continue and the next semi-annual sampling event is tentatively scheduled for January 2013. Please contact us by phone at (919) 772-5393 or by email at jpfohl@mesco.com or mdurway@mesco.com if you have any questions or comments.

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

Jonathan Pfohl
Environmental Specialist

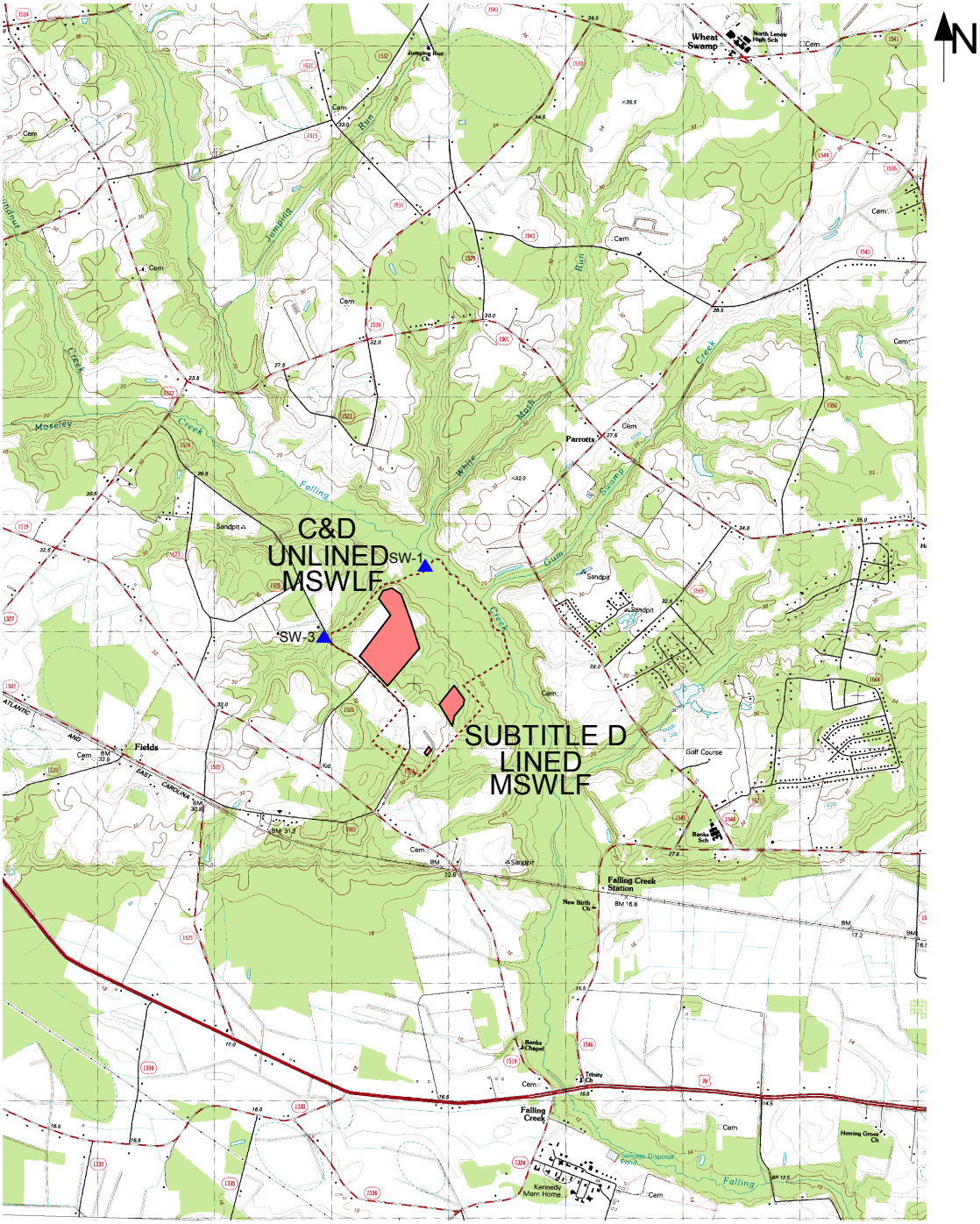
D. Mark Durway, L.G.
Geologist

NORTH CAROLINA LICENSED SEAL 0875 GEOLOGIST D. MARK DURWAY

Enclosures
cc: Mr. Tom Miller
Lenoir County

Figures

Topographic Map with Site Location
Lenoir County Landfill Facility



2949 Hodges Farm Rd (SR1524)
LaGrange, NC 28501
Lat:35-17-07.4269
Long:-77-42-32.7453
Northing:561295.59
Easting:2385220.32

QUADRANGLE LEGEND

ROAD CLASSIFICATION

Primary highway, hard surface
Light-duty road, hard or improved surface
Secondary highway, hard surface
Unimproved road
Interstate Route
U. S. Route
State Route

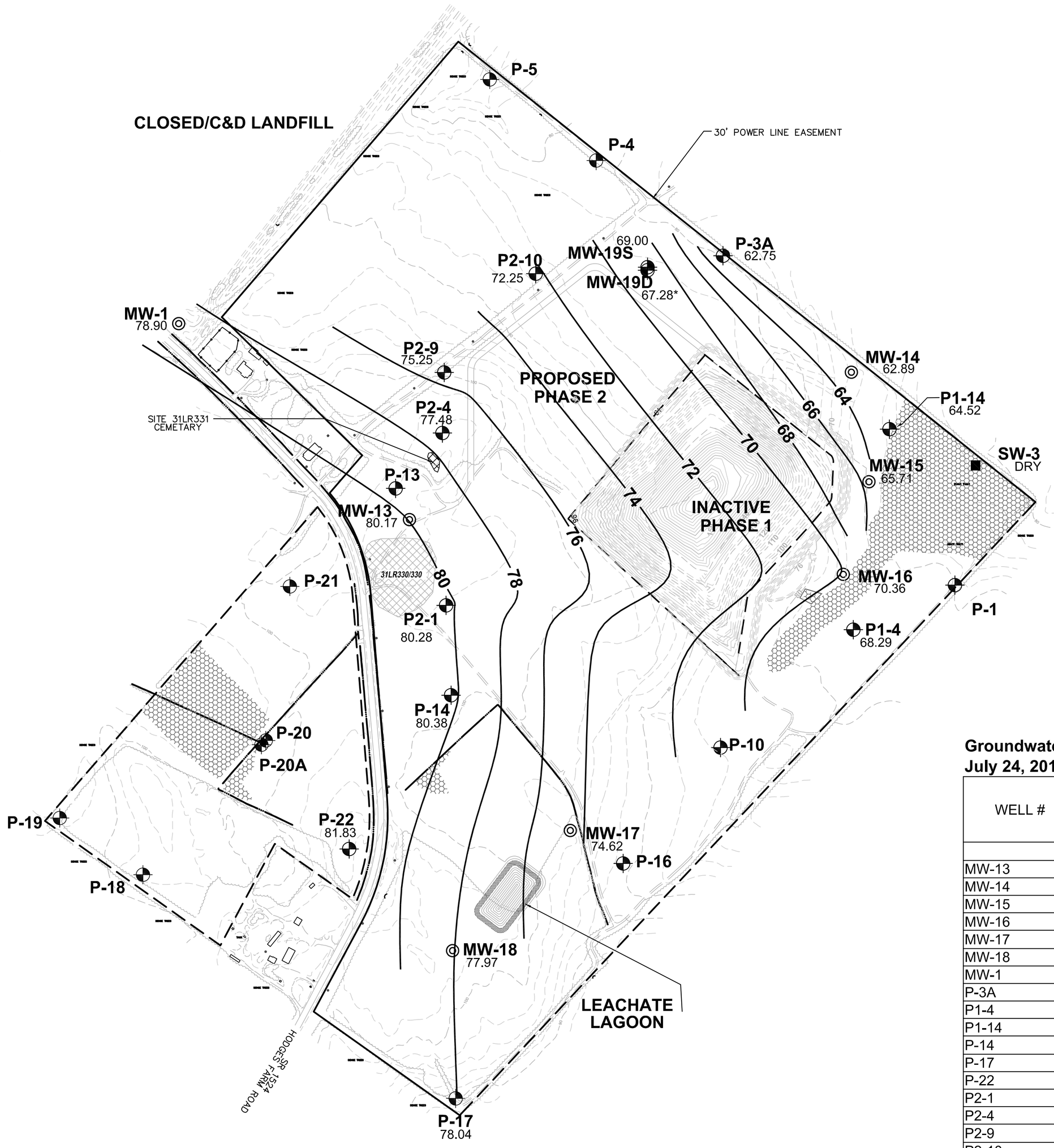
FIGURE 1

LEGEND

- EXISTING TOPOGRAPHIC CONTOURS
- PROPERTY LINE
- EXISITING PATH
- WASTE/LINER LIMITS
- P-11 EXISTING PIEZOMETER
- REF # ARCHAEOLOGICAL SITES
- WETLANDS
- MW-1 MONITORING WELL
- SW-3 SURFACE WATER MONITORING LOCATION
- 78 EQUIPOTENTIAL GROUNDWATER CONTOURS
- 64.15 GROUNDWATER ELEVATION (FT AMSL)

NOTES

1. ARCHAEOLOGICAL SITE 31LR331 (CEMETERY) WILL NOT BE DISTURBED.
2. ARCHAEOLOGICAL SITE 31LR330 WILL BE DISTURBED.



Groundwater Levels & VOCs Detected Above 2L Standards
July 24, 2012

WELL #	TOP OF CASING ELEVATION (FT AMSL)	DEPTH TO WATER (FT BTOC)	GROUNDWATER POTENTIOMETRIC ELEVATION (FT AMSL)	NONE (UG/L)
15A NCAC 2L Groundwater Quality Standard				-
MW-13	107.81	27.64	80.17	
MW-14	74.81	12.01	62.80	
MW-15	71.64	5.93	65.71	
MW-16	76.36	6.00	70.36	
MW-17	101.06	26.44	74.62	
MW-18	106.74	28.77	77.97	
MW-1	98.34	19.44	78.90	
P-3A	82.19	17.04	65.15	
P1-4	78.80	10.51	68.29	
P1-14	69.22	4.70	64.52	
P-14	104.07	23.69	80.38	
P-17	90.57	12.53	78.04	
P-22	110.40	28.57	81.83	
P2-1	104.98	24.70	80.28	
P2-4	107.62	30.14	77.48	
P2-9	101.95	26.70	75.25	
P2-10	88.14	15.89	72.25	
MW-19S	85.76	16.76	69.00	
MW-19D	85.87	18.59	67.28*	

All data collected by Environment I Incorporated
* = Deeper well not used for contouring

FIGURE 2

Municipal Services Engineering Company, P.A.
LICENSE NUMBER: C-0281
P.O. BOX 97 GARNER, N.C. 27529 (919) 772-5393
P.O. BOX 349 BOONE, N.C. 28607 (828) 262-1767

SUBTITLE D LINED MSW LANDFILL FACILITY
LENOIR COUNTY NORTH CAROLINA

DATE	BY	REV.	DESCRIPTION

POTENTIOMETRIC MAP OF UPPERMOST AQUIFER w/ VOCS DETECTED ABOVE 2L STANDARD

SCALE:	1"=200'
DATE:	10/18/12
DRWN. BY:	J PFOHL
CHKD. BY:	M. DURWAY
PROJECT NUMBER	G12029.0
DRAWING NO.	FIGURE 2
SHEET NO.	1 OF 1

Tables

Table 1
Sampling and Analysis Summary
July 24, 2012

		App. I		Field Parameter					Leachate					
	Reason Not Sampled	VOCs	Total Metals	Dissolved Oxygen (DO)	Oxidation Reduction Potential (ORP)	Temperature	Conductivity	pH	Sulfate	pH	Phosphorus	BOD, 5 day	COD	Nitrate
		Lab EPA 8260B	Lab EPA200.8	SM4500OG	SM2580B	SM2550B	SM2510B	SM4500HB	SM426C	Lab SM4500HB	Lab EPA365.4	Lab SM5210B	Lab HACH8000	Lab EPA 353.2
MW-13		x	x	x	x	x	x	x						
MW-14		x	x	x	x	x	x	x						
MW-15		x	x	x	x	x	x	x						
MW-16		x	x	x	x	x	x	x						
MW-17		x	x	x	x	x	x	x						
MW-18		x	x	x	x	x	x	x						
SW-3	Dry													
LAGOON		x	x	x	x	x	x	x	x	x	x	x	x	x
EB		x	x											
TB		x												

App I = List from current 40 CFR 258

Table 2
Detections in Water Samples above SWSL, GWP, 2L, or 2B (Appendix I)
July 24, 2012

Well ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [2]	SWSL [3]	2L [4]	2B [5]	GWP [6]	Exceedance	Preliminary Cause [7]
MW-13	Vanadium, Total	7/24/12	5.5 j	ug/l	0.1	25			3.5	2.5	
MW-17	Vanadium, Total	7/24/12	8.2 j	ug/l	0.1	25			3.5	4.7	
MW-17	Barium, Total	7/24/12	124	ug/l	0.07	100	700				

[1] Table contains Appendix I constituents detected above SWSL, GWP, 2L, or 2B

[2] MDL = Method Detection Limit

[3] SWSL = Solid Waste Section Reporting Limit

[4] 2L = North Carolina 15A NCAC 2L Groundwater Quality Standard

[5] 2B = North Carolina 15 NCAC 2B Surface Water Quality Standard for this Specific Stream Classification

[6] GWP = Groundwater Protection Standard

[7] Preliminary Cause = Refers to a preliminary analysis of the cause and/or source of a detection over the respective 2L/2B Standard.
A definitive source of the detection was not determined as part of this report.

j =The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable

Table 3
Detections in Leachate Samples above SWSL, GWP, 2L, or 2B
August 2, 2012

Sample ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [2]	SWSL [3]	2L [4]	2B [5]	GWP [6]	Exceedance
LAGOON	COD	8/2/2012	45000	ug/l	20000	20000	NE		NE	
LAGOON	BOD	8/2/2012	5800	ug/l	2000	2000	NE		NE	

[1] Table contains only constituents detected above SWSL, GWP, 2L, or 2B

[2] MDL = Method Detection Limit

[3] SWSL = Solid Waste Section Reporting Limit

[4] 2L = North Carolina 15A NCAC 2L Groundwater Qualtity Standard

[5] 2B = North Carolina 15 NCAC 2B Surface Water Quality Standard for this Specific Stream Classification

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

j =The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.

NE = Not Established

BOLD = Concentration > 2L, or 2B Standard

Table 4
Hydrologic Properties at Monitoring Well Locations
July 24, 2012

Monitoring Well	Hydraulic Conductivity (cm/sec)	Effective Porosity (%)	Hydraulic Gradient (ft/ft)	Groundwater Velocity Rate (ft/yr)	Flow Direction	Depth To Water (ft btoc)	Water Table Elevation (ft amsl)	Screened Interval Lithology
MW-13	7.69E-05	23	0.035	12	N54E	27.64	80.17	Silty Sand
MW-14	3.38E-03	23	0.018	268	N51E	12.01	62.80	Silty Sand
MW-15	2.89E-03	23	0.013	175	N71E	5.93	65.71	Silty Sand
MW-16	9.72E-04	23	0.040	173	N81E	6.00	70.36	Silty Sand
MW-17	1.13E-03	23	0.011	57	S79E	26.44	74.62	Silty Sand
MW-18	1.25E-04	23	0.004	2	S84E	28.77	77.97	Silty Clayey Sand
Minimum	7.69E-05	23	0	2	-	5.93	62.8	-
Average	1.43E-03	23	0.02	115	-	17.8	71.94	-
Maximum	3.38E-03	23	0.04	268	-	28.77	80.17	-

NOTE: 1.Hydraulic conductivity (K) values based on slug test results, performed by MESCO in December 2005.
2. Effective Porosity (ne) values obtained from the MESCO Ph. 1 design hydrogeologic report completed in August 2002.
3.Static water levels recorded by Environment 1, Inc. on July 24, 2012.
Linear velocity rate (Q) is defined by modified Darcy's equation:

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

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

Appendix B
Laboratory Analysis Reports
Chains of Custody
Field Data Reports

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#: 6053

LENOIR CO. LANDFILL (NEW)
COUNTY OF LENOIR
MR. TOM MILLER
P.O. BOX 756
KINSTON ,NC 28502

DATE COLLECTED: 07/24/12
DATE REPORTED : 08/16/12

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW-13	MW-14	MW-15	MW-16	MW-17	Analysis Date	Analyst	Method Code
PH (field measurement), Units			4.3	4.5	4.7	4.8	4.1	07/24/12	RJH	SM4500HB
Antimony, ug/l	0.02	6.0	0.10 J	0.05 J	0.12 J	0.24 J	0.25 J	07/30/12	LPJ	EPA200.8
Arsenic, ug/l	0.13	10.0	0.78 J	0.35 J	0.36 J	0.26 J	2.4 J	07/30/12	LPJ	EPA200.8
Barium, ug/l	0.07	100.0	76.4 J	34.3 J	31.1 J	16.5 J	124	07/30/12	LPJ	EPA200.8
Beryllium, ug/l	0.07	1.0	0.26 J	0.09 J	--- U	--- U	0.44 J	07/30/12	LPJ	EPA200.8
Cadmium, ug/l	0.03	1.0	0.13 J	- - U	0.19 J	0.09 J	0.11 J	07/30/12	LPJ	EPA200.8
Cobalt, ug/l	0.02	10.0	1.2 J	0.69 J	0.70 J	0.33 J	1.8 J	07/30/12	LPJ	EPA200.8
Copper, ug/l	0.06	10.0	1.3 J	0.59 J	1.2 J	0.63 J	1.2 J	07/30/12	LPJ	EPA200.8
Total Chromium, ug/l	0.18	10.0	3.0 J	0.38 J	0.68 J	0.70 J	4.5 J	07/30/12	LPJ	EPA200.8
Lead, ug/l	0.08	10.0	1.7 J	0.38 J	0.35 J	0.18 J	5.1 J	07/30/12	LPJ	EPA200.8
Nickel, ug/l	0.06	50.0	1.2 J	0.72 J	0.94 J	0.62 J	1.7 J	07/30/12	LPJ	EPA200.8
Selenium, ug/l	0.17	10.0	--- U	0.20 J	0.44 J	0.19 J	0.72 J	07/30/12	LPJ	EPA200.8
Silver, ug/l	0.10	10.0	--- U	- - U	--- U	--- U	--- U	07/31/12	LPJ	EPA200.8
Thallium, ug/l	0.07	5.5	--- U	- - U	--- U	--- U	--- U	07/31/12	LPJ	EPA200.8
Vanadium, ug/l	0.10	25.0	5.5 J	- - U	0.50 J	0.37 J	8.2 J	07/30/12	LPJ	EPA200.8
Zinc, ug/l	0.48	10.0	8.7 J	4.5 J	5.9 J	6.1 J	8.9 J	07/30/12	LPJ	EPA200.8
Turbidity, NTU	1.0	1.0	21	398	22	13	55	07/24/12	RJH	SM2130B
Conductivity (at 25c), uMhos/cm	1.0	1.0	77	105	177	41	199	07/24/12	RJH	SM2510B
Temperature, °C			20	22	23	26	20	07/24/12	RJH	SM2550B
Static Water Level, feet			27.64	12.01	5.93	6.00	26.44	07/24/12	RJH	
Well Depth, feet			31.59	23.56	18.26	24.11	30.91	07/24/12	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#: 6053

LENOIR CO. LANDFILL (NEW)
COUNTY OF LENOIR
MR. TOM MILLER
P.O. BOX 756
KINSTON ,NC 28502

DATE COLLECTED: 07/24/12
DATE REPORTED : 08/16/12

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW-18	SW-3	Equipment Blank	Trip Blank	Analysis Date	Analyst	Method Code
PH (field measurement), Units			5.0	Missing			07/24/12	RJH	SM4500HB
Antimony, ug/l	0.02	6.0	0.11 J	Missing	0.11 J		07/30/12	LFJ	EPA200.8
Arsenic, ug/l	0.13	10.0	0.33 J	Missing	--- U		07/30/12	LFJ	EPA200.8
Barium, ug/l	0.07	100.0	14.9 J	Missing	14.0 J		07/30/12	LFJ	EPA200.8
Beryllium, ug/l	0.07	1.0	--- U	Missing	--- U		07/30/12	LFJ	EPA200.8
Cadmium, ug/l	0.03	1.0	0.10 J	Missing	--- U		07/30/12	LFJ	EPA200.8
Cobalt, ug/l	0.02	10.0	0.25 J	Missing	--- U		07/30/12	LFJ	EPA200.8
Copper, ug/l	0.06	10.0	0.60 J	Missing	0.46 J		07/30/12	LFJ	EPA200.8
Total Chromium, ug/l	0.18	10.0	0.88 J	Missing	0.31 J		07/30/12	LFJ	EPA200.8
Lead, ug/l	0.08	10.0	0.55 J	Missing	--- U		07/30/12	LFJ	EPA200.8
Nickel, ug/l	0.06	50.0	0.50 J	Missing	0.53 J		07/30/12	LFJ	EPA200.8
Selenium, ug/l	0.17	10.0	--- U	Missing	--- U		07/30/12	LFJ	EPA200.8
Silver, ug/l	0.10	10.0	--- U	Missing	--- U		07/31/12	LFJ	EPA200.8
Thallium, ug/l	0.07	5.5	--- U	Missing	--- U		07/31/12	LFJ	EPA200.8
Vanadium, ug/l	0.10	25.0	0.84 J	Missing	--- U		07/30/12	LFJ	EPA200.8
Zinc, ug/l	0.48	10.0	7.9 J	Missing	3.9 J		07/30/12	LFJ	EPA200.8
Turbidity, NTU	1.0	1.0	12	Missing			07/24/12	RJH	SM2130B
Conductivity (at 25c), uMhos/cm	1.0	1.0	25	Missing			07/24/12	RJH	SM2510B
Temperature, °C			18	Missing			07/24/12	RJH	SM2550B
Static Water Level, feet			28.77				07/24/12	RJH	
Well Depth, feet			33.99				07/24/12	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: LENOIR CO. LANDFILL (NEW)
COUNTY OF LENOIR
MR. TOM MILLER
P.O. BOX 756
KINSTON, NC 28502

CLIENT ID: 6053

ANALYST: MAO
DATE COLLECTED: 07/24/12
DATE REPORTED: 08/16/12

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B R1(96)

PARAMETERS, ug/1	MDL	SWSL	07/25/12 MW-13	07/25/12 MW-14	07/25/12 MW-15	07/25/12 MW-16	08/01/12 MW-17
	Date Analyzed:						
1. Chloromethane	0.77	1.0	--- U	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.63	1.0	--- U	--- U	--- 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	--- 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	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.20	5.0	--- U	--- U	--- 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	--- U	--- U	--- 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	--- U	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.27	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.23	1.0	--- U	--- U	--- 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	--- U	--- 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	--- U	--- U	--- 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	--- U	--- U	--- 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, 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: LENOIR CO. LANDFILL (NEW)
COUNTY OF LENOIR
MR. TOM MILLER
P.O. BOX 756
KINSTON, NC 28502

CLIENT ID: 6053

ANALYST: MAO
DATE COLLECTED: 07/24/12
DATE REPORTED: 08/16/12

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B R1(96)

PARAMETERS, ug/l	MDL	SWSL	08/01/12 MW-18	08/01/12 Equipment Blank	08/01/12 Trip Blank
	Date Analyzed:				
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	--- U
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: 6053 **Week: 30**

LENOIR CO. LANDFILL (NEW)
COUNTY OF LENOIR
MR. TOM MILLER
P.O. BOX 756
KINSTON NC 28502

(252) 566-4194

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	Turbidity	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	P		G	G	G
CHEMICAL PRESERVATION						A	A	A	A	A		E	E	E
MW-13	07/24/12	1040		20	5	G	G	G	G	G	G	G	G	G
MW-14	07/24/12	0930		22	4	G	G	G	G	G	G	G	G	
MW-15	07/24/12	0940		23	4	G	G	G	G	G	G	G	G	
MW-16	07/24/12	0950		26	4	G	G	G	G	G	G	G	G	
MW-17	07/24/12	1035		20	4	G	G	G	G	G	G	G	G	
MW-18	07/24/12	1025		18	4	G	G	G	G	G	G	G	G	
~~SW-3~~					4									
Equipment Blank	07/24/12				3		G					G	G	
Trip Blank					2									

PARAMETERS

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) N Jope Fox

SAMPLES RECEIVED IN LAB AT 0.2 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob N Jope	07/24/12	[signature]	7/24/12 100
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

№ 243164

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#: 6053 A

LENOIR CO. LANDFILL (NEW)
COUNTY OF LENOIR
MR. TOM MILLER
P.O. BOX 756
KINSTON ,NC 28502

DATE COLLECTED: 08/02/12
DATE REPORTED : 08/28/12

REVIEWED BY:

PARAMETERS	MDL	SWSL	Lagoon	Analysis Date	Analyst	Method Code
PH (field measurement), Units			7.92	08/02/12	RJH	SM4500HB
BOD, mg/l	2.0	2.0	5.8	08/03/12	TRB	SM5210B
COD, mg/l	20.0	20.0	45	08/08/12	TRB	HACH8000
Nitrate Nitrogen as N, mg/l	0.03	10.0	0.04 J	08/08/12	ANO	EPA353.2
Total Phosphorus as P, mg/l	0.04	0.04	--- U	08/09/12	BJC	EPA365.4
Sulfate, mg/l	5.0	250.0	17.9 J	08/09/12	TRB	4500SO42E97
Antimony, ug/l	0.02	6.0	0.09 J	08/08/12	LFJ	EPA200.8
Arsenic, ug/l	0.13	10.0	0.64 J	08/08/12	LFJ	EPA200.8
Barium, ug/l	0.07	100.0	17.6 J	08/08/12	LFJ	EPA200.8
Beryllium, ug/l	0.07	1.0	--- U	08/08/12	LFJ	EPA200.8
Cadmium, ug/l	0.03	1.0	--- U	08/08/12	LFJ	EPA200.8
Cobalt, ug/l	0.02	10.0	0.07 J	08/08/12	LFJ	EPA200.8
Copper, ug/l	0.06	10.0	3.9 J	08/08/12	LFJ	EPA200.8
Total Chromium, ug/l	0.18	10.0	0.30 J	08/08/12	LFJ	EPA200.8
Lead, ug/l	0.08	10.0	0.12 J	08/08/12	LFJ	EPA200.8
Nickel, ug/l	0.06	50.0	2.5 J	08/08/12	LFJ	EPA200.8
Selenium, ug/l	0.17	10.0	0.73 J	08/08/12	LFJ	EPA200.8
Silver, ug/l	0.10	10.0	--- U	08/08/12	LFJ	EPA200.8
Thallium, ug/l	0.07	5.5	--- U	08/08/12	LFJ	EPA200.8
Vanadium, ug/l	0.10	25.0	0.15 J	08/08/12	LFJ	EPA200.8
Zinc, ug/l	0.48	10.0	7.2 J	08/08/12	LFJ	EPA200.8
Turbidity, NTU	1.0	1.0	4.4	08/03/12	TRB	SM2130B
Conductivity (at 25c), uMhos/cm	1.0	1.0	457	08/09/12	MPB	SM2510B
Temperature, °C			23.14	08/02/12	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: LENOIR CO. LANDFILL (NEW)
COUNTY OF LENOIR
MR. TOM MILLER
P.O. BOX 756
KINSTON, NC 28502

CLIENT ID: 6053 A

ANALYST: MAO
DATE COLLECTED: 08/02/12
DATE ANALYZED: 08/07/12
DATE REPORTED: 08/28/12

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B R1(96)

PARAMETERS, ug/l	MDL	SWSL	Lagoon
1. Chloromethane	0.77	1.0	--- U
2. Vinyl Chloride	0.63	1.0	--- U
3. Bromomethane	0.67	10.0	--- U
4. Chloroethane	0.48	10.0	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U
7. Acetone	9.06	100.0	--- U
8. Iodomethane	0.26	10.0	--- U
9. Carbon Disulfide	0.23	100.0	--- U
10. Methylene Chloride	0.64	1.0	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U
12. 1,1-Dichloroethane	0.20	5.0	--- U
13. Vinyl Acetate	0.20	50.0	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	--- U
15. 2-Butanone	2.21	100.0	--- U
16. Bromochloromethane	0.27	3.0	--- U
17. Chloroform	0.25	5.0	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U
20. Benzene	0.24	1.0	--- U
21. 1,2-Dichloroethane	0.27	1.0	--- U
22. Trichloroethene	0.23	1.0	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U
24. Bromodichloromethane	0.21	1.0	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U
27. Toluene	0.23	1.0	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U
30. Tetrachloroethene	0.17	1.0	--- U
31. 2-Hexanone	1.57	50.0	--- U
32. Dibromochloromethane	0.24	3.0	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U
34. Chlorobenzene	0.30	3.0	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U
36. Ethylbenzene	0.21	1.0	--- U
37. Xylenes	0.68	5.0	--- U
38. Dibromomethane	0.28	10.0	--- U
39. Styrene	0.19	1.0	--- U
40. Bromoform	0.20	3.0	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U
46. Acrylonitrile	2.72	200.0	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- 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: 6053 A **Week: 30**

LENOIR CO. LANDFILL (NEW)
COUNTY OF LENOIR
MR. TOM MILLER
P.O. BOX 756
KINSTON NC 28502

(252) 566-4194

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

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field pH	BOD	COD	Nitrate	T. Phosphorus	Sulfate	Metals	Turbidity	Conductivity	Temperature	EPA 8260B	8260 Dup. 1	8260 Dup. 2				PARAMETERS
																						CHLORINE NEUTRALIZED AT COLLECTION
								<2		<2		<2				<2	<2	<2				pH CHECK (LAB)
						P	P	P	P	P	P	P	P	P	P	G	G	G				CONTAINER TYPE, P/G
						A	A	C	A	C	A	A	A	A	A	E	E	E				CHEMICAL PRESERVATION
Lagoon	8-2-12	11:10 AM			10																	

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) GENE STALLINGS

SAMPLES RECEIVED IN LAB AT 3 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Gene Stallings	8-2-12 1:45 PM	[signature]	8/3/12 1:47
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

№ 246943

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#: 6053 B

LENOIR CO. LANDFILL (NEW)
COUNTY OF LENOIR
MR. TOM MILLER
P.O. BOX 756
KINSTON ,NC 28502

DATE COLLECTED: 07/23/12
DATE REPORTED : 07/23/12

REVIEWED BY:

PARAMETERS	MDL	SWSL	P-22	MW-19S	MW-19D	P1-4	P1-14	Analysis Date	Analyst	Method Code
Static Water Level, feet			28.57	16.76	18.59	10.51	4.70	07/23/12	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#: 6053 B

LENOIR CO. LANDFILL (NEW)
COUNTY OF LENOIR
MR. TOM MILLER
P.O. BOX 756
KINSTON ,NC 28502

DATE COLLECTED: 07/23/12
DATE REPORTED : 07/23/12

REVIEWED BY:

PARAMETERS	MDL	SWSL	P-14	P-3A	P-17	P2-1	P2-4	Analysis Date	Analyst	Method Code
Static Water Level, feet			23.69	17.04	12.53	24.70	30.14	07/23/12	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

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ID#: 6053 B

LENOIR CO. LANDFILL (NEW)
COUNTY OF LENOIR
MR. TOM MILLER
P.O. BOX 756
KINSTON ,NC 28502

DATE COLLECTED: 07/23/12
DATE REPORTED : 07/23/12

REVIEWED BY:

PARAMETERS	MDL	SWSL	P2-9	P2-10	Analysis Date	Analyst	Method Code
Static Water Level, feet			26.70	15.89	07/23/12	RJH	

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: 6053 B **Week: 30**

LENOIR CO. LANDFILL (NEW)
COUNTY OF LENOIR
MR. TOM MILLER
P.O. BOX 756
KINSTON NC 28502

(252) 566-4194

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

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field Parameter
P-22	07 23/2				1	G
MW-19S	07 23/2				1	G
MW-19D	07 23/2				1	G
P1-4	07 23/2				1	G
P1-14	07 23/2				1	G
P-14	07 23/2				1	G
P-3A	07 23/2				1	G
P-17	07 23/2				1	G
P2-1	07 23/2				1	G
P2-4	07 23/2				1	G
P2-9	07 23/2				1	G

PARAMETERS

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)
[signature]

SAMPLES RECEIVED IN LAB AT N/A °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
[signature]	07 23/2	[signature]	7/23 1:20
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

№ 243162

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: 6053 B **Week: 30**

LENOIR CO. LANDFILL (NEW)
COUNTY OF LENOIR
MR. TOM MILLER
P.O. BOX 756
KINSTON NC 28502

(252) 566-4194

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

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field Parameter
P2-10	07/23/12				1	

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

SAMPLES RECEIVED IN LAB AT N/A °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
[illegible]	07/23/12	[illegible]	7/23 1200
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.

N° 243161

FORM #5