Groundwater Sampling Report and Statistical Analysis

Prepared for

Lenoir County Closed MSWLF and Active C&D Landfill
La Grange, North Carolina

July, 2007

Permit Number: 54-03
MESCO Project Number: G07015.0

Completed on September 18, 2007

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

OPERATION/CONSTRUCTION MANAGERS

Municipal Services

CIVIL/SANITARY ENGINEERS

Engineering Company, P.A.

September 18, 2007

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

Re: Groundwater Sampling Report and Statistical Analysis
Lenoir County Closed MSWLF and Active C&D Landfill
Permit No.54-03
MESCO Project No. G07015.0

Dear Ms. Drummond:

Municipal Engineering Services Company, P.A. (MESCO) completed the sampling report and statistical analyses for the Lenoir County Closed MSWLF and active C&D Landfill located near LaGrange, NC. Environment I of Greenville NC, sampled the landfill on July 31, 2007 and also completed the laboratory analysis as part of the assessment monitoring program. All of the C&D landfill monitoring wells were analyzed for the newly promulgated parameter list as outlined in 15A NCAC 13B.0544 (D). The new parameter list includes the Appendix 1 list of VOCs and metals, mercury, specific conductance, pH, temperature, alkalinity, total dissolved solids, chloride, manganese, sulfate, and iron. The surface water monitoring locations SW-1 and SW-2 were analyzed for only the Appendix I list of metals and VOCs. Water samples obtained from MW-3 were analyzed for the complete Appendix II list of parameters since this monitoring location has historically been found to have statistically significant VOC detections. The report for the active Subtitle D lined MSWLF which comprise a separate portion of the facility is contained in a previously submitted report. This is the premiere event the laboratory results were reported to the stringent Method Detection Limits (MDL) therefore several parameters were reported to be detected in non quantifiable detections. The laboratory results are included herein.

The assessment monitoring program for the closed MSWLF and active C&D Landfill consists of downgradient wells (MW-3, MW-4, MW-6, MW-9, MW-11, MW-12), surface waters (SW-1, SW-2), and background well (MW-1). All of the detected constituents were compared with the Solid Waste Section Limits (SWSL) and the NCGW2L Standards for regulatory exceedance. The results are shown in the enclosed tables titled "Detection Scan". The only detections found in concentrations above the Standard during this event were the C&D parameters. The parameters found above the MCL were Iron within MW-1, MW-3, MW-4, MW-9, MW-11, manganese within MW-4, MW-9 and mercury within MW-12. No VOCs, which are more indicative of leachate contamination, were detected in concentrations above the SWSL during this event.

MESCO completed the enclosed potentiometric map with groundwater elevations on the day of sampling, flow rates and direction. The calculated flow directions are consistent with previous events and the monitoring network continues to appear to be adequate. Calculated flow rates are also consistent with previous events with values ranging from <7 ft/year to >30 ft/yr. The field data sheet and chain of custody is also enclosed.

MESCO also completed the statistical analysis upon the monitoring wells for the closed landfill portion of the facility as required by the Solid Waste Section. The purpose of these analyses is to determine, in comparison to background levels, statistical significance of the constituent detected during this sampling event.

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Statistical Analysis Methodology
Metals

MESCO conducted an interwell statistical analysis on all of the detected metals. Historical data from monitoring well MW-1 was defined as the background well, and an upper tolerance limit (UTL) with 95% coverage was computed for each detected constituent from the background data at a 95% level of confidence. For each tested constituent, an appropriate statistical analysis method was selected based on the percentages of non-detects (%ND) in the historical background data. The following table (Table 1) summarizes the methods used for four different %ND ranges.

Table 1. Statistical Analysis Methods for Various %ND Ranges

%ND	Analysis Method	ND Substitution
%ND<15%	Parametric tolerance limit	1/2 ND
15%<%ND<50%	Parametric tolerance limit	Cohen or 1/2 ND
50%<%ND<90%	Non-parametric tolerance limit	1/2 ND
90%<%ND	Poisson tolerance limit	-

NOTE: For parametric tolerance interval, normality of the background data was checked by the Shapiro-Wilks normality test, as the method requires that the data be normally distributed.

A preliminary data screening was conducted upon the metals detected in all monitoring locations. Detected parameters with concentrations found below that of the background well MW-1 and those parameters found below the SWSL were eliminated and a statistical analysis was not conducted upon these wells. A total of 2 metals were tested for statistical significance. Since neither mercury nor zinc has historically been detected within the background well the Poisson Tolerance Limit on either the original or the log of the data was utilized.

Results

Historical data compiled for monitoring well MW-1 was used as the baseline. Data distribution and potential outliers were reviewed using time series and box and whiskers plots (enclosed charts). Neither the C&D parameter mercury within MW-12 nor zinc within MW-3 were found to have increased in concentration after interwell analysis.

Conclusion

Once again no constituents were found to have increased in statistically significant concentrations indicating that the groundwater downgradient of the waste boundary appears to continue to improve through natural attenuation and it is very unlikely that contaminants exist beyond the compliance boundary.

MESCO submitted the required Assessment of Corrective Measures (ACM) report to the Section on August 30, 2007. The comprehensive report concludes that corrective action is unwarranted at this time and the facility should revert back to detection monitoring.

The facility is scheduled to be sampled again for the complete Appendix I list of constituents in January 2008. Please contact me either by phone at (919) 772-5393, or by email at jpfohl@mesco.com should you have any questions or concerns regarding this report.

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

Jonathan Pfohl
Environmental Specialist

Enclosures
cc: Mr. Tom Miller
Lenoir County

Detection Scan All Detections above SWSL and NCGW2L
Lenoir County Closed MSWLF and C&D Landfill

Well ID	Parameter Name[1]	Sample Date	Result	Unit	SWSL [2]	MDL[4]	NCGW2L[3]	Exceedance
MW-1	**Iron**	**07/31/2007**	**773**	**ug/l**	**300**	**12.0**	**300**	**473**
MW-3	**Iron**	**07/31/2007**	**30800**	**ug/l**	**300**	**12.0**	**300**	**30500**
MW-3	Zinc	07/31/2007	59	ug/l	10	1.86	1050	
MW-4	**Manganese**	**07/31/2007**	**74**	**ug/l**	**50**	**0.50**	**50**	**24**
MW-4	**Iron**	**07/31/2007**	**3346**	**ug/l**	**300**	**12.0**	**300**	**3046**
MW-9	**Iron**	**07/31/2007**	**1711**	**ug/l**	**300**	**12.0**	**300**	**1411**
MW-9	**Manganese**	**07/31/2007**	**241**	**ug/l**	**50**	**0.50**	**50**	**191**
MW-11	**Iron**	**07/31/2007**	**879**	**ug/l**	**300**	**12.0**	**300**	**579**
MW-12	**Mercury**	**07/31/2007**	**1.16**	**ug/l**	**0.2**	**0.13**	**1.1**	**0.06**

[1] Table contains all constituents detected above SWSL & NCGW2L Standard
[2] SWSL = Solid Waste Section Limit (Current as of sampling date)
[3] NCGW2L = North Carolina Ground Water 2L Standard
[4] MDL = Method Detection Limit

Detection Scan All Detections Reported by Laboratory
Lenoir County Closed MSWLF and C&D Landfill

Well ID	Parameter Name[1]	Sample Date	Result	Unit	SWSL [2]	MDL[4]	NCGW2L[3]	Exceedance
MW-1	2-Butanone	07/31/2007	2.7	ug/l	100	0.85	4200	
MW-1	Acetone	07/31/2007	1.4	ug/l	100	1.21	700	
MW-1	Barium	07/31/2007	20.6	ug/l	100	0.34	2000	
MW-1	Beryllium	07/31/2007	0.1	ug/l	1	0.08		
MW-1	Chloride	07/31/2007	8	ug/l	NE	5.0		
MW-1	Chromium	07/31/2007	0.5	ug/l	10	1.38	50	
MW-1	Cobalt	07/31/2007	0.8	ug/l	10	0.41		
MW-1	Copper	07/31/2007	0.4	ug/l	10	0.20	1000	
MW-1	**Iron**	**07/31/2007**	**773**	**ug/l**	**300**	**12.0**	**300**	**473**
MW-1	Lead	07/31/2007	0.6	ug/l	10	0.07	15	
MW-1	Manganese	07/31/2007	12	ug/l	50	0.50	50	
MW-1	Nickel	07/31/2007	1	ug/l	10	1.35	100	
MW-1	Sulfate	07/31/2007	8.6	ug/l	250000	5.0	250000	
MW-1	Thallium	07/31/2007	0.3	ug/l	5.5	0.07		
MW-1	Toluene	07/31/2007	0.3	ug/l	1	0.13	1000	
MW-1	Total Dissolved Residue	07/31/2007	60	ug/l	NE	1.0		
MW-1	Vanadium	07/31/2007	0.8	ug/l	25	0.42		
MW-1	Zinc	07/31/2007	4.8	ug/l	10	0.20	1050	
MW-3	1,1-Dichloroethane	07/31/2007	0.3	ug/l	1	0.16	70	
MW-3	Arsenic	07/31/2007	0.7	ug/l	10	0.47	50	
MW-3	Barium	07/31/2007	79.3	ug/l	100	0.04	2000	
MW-3	Chloride	07/31/2007	60	ug/l	NE	5.0		
MW-3	Chromium	07/31/2007	0.4	ug/l	10	0.24	50	
MW-3	**Iron**	**07/31/2007**	**30800**	**ug/l**	**300**	**12.0**	**300**	**30500**
MW-3	Lead	07/31/2007	0.2	ug/l	10	0.07	15	
MW-3	Manganese	07/31/2007	34	ug/l	50	0.50	50	
MW-3	Mercury	07/31/2007	0.04	ug/l	0.2	0.13	1.1	
MW-3	Nickel	07/31/2007	1.4	ug/l	10	0.66	100	
MW-3	Sulfate	07/31/2007	6.1	ug/l	250000	5.0	250000	
MW-3	Thallium	07/31/2007	0.1	ug/l	5.5	0.07		
MW-3	Tin	07/31/2007	2.1	ug/l	100	2.75		
MW-3	Toluene	07/31/2007	0.4	ug/l	1	0.13	1000	
MW-3	Total Alkalinity	07/31/2007	92	ug/l	NE	1.0		
MW-3	Total Dissolved Residue	07/31/2007	99	ug/l	NE	1.0		
MW-3	Vanadium	07/31/2007	0.8	ug/l	25	1.21		
MW-3	Zinc	07/31/2007	59	ug/l	10	1.86	1050	
MW-4	2-Butanone	07/31/2007	2.3	ug/l	100	0.85	4200	
MW-4	Acetone	07/31/2007	2.8	ug/l	100	1.21	700	
MW-4	Antimony	07/31/2007	0.1	ug/l	6	0.05		
MW-4	Arsenic	07/31/2007	4	ug/l	10	0.47	50	
MW-4	Barium	07/31/2007	42.6	ug/l	100	0.34	2000	
MW-4	Chloride	07/31/2007	5	ug/l	NE	5.0		
MW-4	Chromium	07/31/2007	0.7	ug/l	10	0.24	50	
MW-4	Cobalt	07/31/2007	0.9	ug/l	10	2.53		
MW-4	Copper	07/31/2007	0.5	ug/l	10	0.20	1000	
MW-4	**Iron**	**07/31/2007**	**3346**	**ug/l**	**300**	**12.0**	**300**	**3046**
MW-4	Lead	07/31/2007	0.3	ug/l	10	0.07	15	
MW-4	**Manganese**	**07/31/2007**	**74**	**ug/l**	50	**0.50**	**50**	**24**
MW-4	Nickel	07/31/2007	1.1	ug/l	10	1.35	100	
MW-4	Sulfate	07/31/2007	13.7	ug/l	250000	5.0	250000	
MW-4	Thallium	07/31/2007	0.2	ug/l	5.5	0.07		

Well ID	Parameter Name[1]	Sample Date	Result	Unit	SWSL [2]	MDL[4]	NCGW2L[3]	Exceedance
MW-4	Toluene	07/31/2007	0.4	ug/l	1	0.13	1000	
MW-4	Total Alkalinity	07/31/2007	1	ug/l	NE	1.0		
MW-4	Total Dissolved Residue	07/31/2007	60	ug/l	NE	1.0		
MW-4	Vanadium	07/31/2007	1.7	ug/l	25	1.21		
MW-4	Zinc	07/31/2007	4.1	ug/l	10	1.86	1050	
MW-6	2-Butanone	07/31/2007	1.6	ug/l	100	0.85	4200	
MW-6	Acetone	07/31/2007	1.5	ug/l	100	1.21	700	
MW-6	Antimony	07/31/2007	0.2	ug/l	6	0.05		
MW-6	Barium	07/31/2007	36.6	ug/l	100	0.04	2000	
MW-6	Cadmium	07/31/2007	0.1	ug/l	1	0.06	1.75	
MW-6	Cis-1,2-Dichloroethene	07/31/2007	0.2	ug/l	1	0.14	70	
MW-6	Copper	07/31/2007	0.4	ug/l	10	0.20	1000	
MW-6	Iron	07/31/2007	209	ug/l	300	12.0	300	
MW-6	Lead	07/31/2007	0.4	ug/l	10	0.07	15	
MW-6	Manganese	07/31/2007	34	ug/l	50	0.50	50	
MW-6	Nickel	07/31/2007	0.8	ug/l	10	1.35	100	
MW-6	Selenium	07/31/2007	0.7	ug/l	10	0.35	50	
MW-6	Sulfate	07/31/2007	21.8	ug/l	250000	5.0	250000	
MW-6	Tetrachloroethene	07/31/2007	0.3	ug/l	1	0.16	0.7	
MW-6	Thallium	07/31/2007	0.2	ug/l	5.5	0.07		
MW-6	Toluene	07/31/2007	0.2	ug/l	1	0.13	1000	
MW-6	Total Dissolved Residue	07/31/2007	42	ug/l	NE	1.0		
MW-6	Zinc	07/31/2007	2.7	ug/l	10	1.86	1050	
MW-9	Arsenic	07/31/2007	0.5	ug/l	10	0.47	50	
MW-9	Barium	07/31/2007	37	ug/l	100	0.34	2000	
MW-9	Chloride	07/31/2007	6	ug/l	NE	5.0		
MW-9	Cobalt	07/31/2007	4.7	ug/l	10	2.53		
MW-9	Copper	07/31/2007	0.3	ug/l	10	2.24	1000	
MW-9	**Iron**	**07/31/2007**	**1711**	**ug/l**	**300**	**12.0**	**300**	**1411**
MW-9	Lead	07/31/2007	0.1	ug/l	10	0.07	15	
MW-9	**Manganese**	**07/31/2007**	**241**	**ug/l**	50	**0.50**	**50**	**191**
MW-9	Mercury	07/31/2007	0.11	ug/l	0.2	0.13	1.1	
MW-9	Nickel	07/31/2007	2.1	ug/l	10	0.66	100	
MW-9	Sulfate	07/31/2007	12	ug/l	250000	5.0	250000	
MW-9	Thallium	07/31/2007	0.1	ug/l	5.5	0.07		
MW-9	Total Alkalinity	07/31/2007	1	ug/l	NE	1.0		
MW-9	Total Dissolved Residue	07/31/2007	64	ug/l	NE	1.0		
MW-9	Zinc	07/31/2007	7.5	ug/l	10	0.20	1050	
MW-11	1,2-Dichloropropane	07/31/2007	0.4	ug/l	1	0.17	0.51	
MW-11	Barium	07/31/2007	23.6	ug/l	100	0.34	2000	
MW-11	Chloride	07/31/2007	19	ug/l	NE	5.0		
MW-11	Chromium	07/31/2007	0.3	ug/l	10	0.24	50	
MW-11	Copper	07/31/2007	0.6	ug/l	10	2.24	1000	
MW-11	**Iron**	**07/31/2007**	**879**	**ug/l**	**300**	**12.0**	**300**	**579**
MW-11	Lead	07/31/2007	0.1	ug/l	10	0.07	15	
MW-11	Manganese	07/31/2007	14	ug/l	50	0.50	50	
MW-11	Total Dissolved Residue	07/31/2007	43	ug/l	NE	1.0		
MW-11	Vanadium	07/31/2007	1	ug/l	25	1.21		
MW-11	Zinc	07/31/2007	3.5	ug/l	10	1.86	1050	
MW-12	Acetone	07/31/2007	1.3	ug/l	100	1.21	700	
MW-12	Barium	07/31/2007	86.8	ug/l	100	0.04	2000	
MW-12	Chloride	07/31/2007	29	ug/l	NE	5.0		
MW-12	Cobalt	07/31/2007	0.7	ug/l	10	2.53		
MW-12	Copper	07/31/2007	0.7	ug/l	10	2.24	1000	

Well ID	Parameter Name[1]	Sample Date	Result	Unit	SWSL [2]	MDL[4]	NCGW2L[3]	Exceedance
MW-12	Iron	07/31/2007	258	ug/l	300	12.0	300	
MW-12	Manganese	07/31/2007	7.3	ug/l	50	0.50	50	
MW-12	**Mercury**	**07/31/2007**	**1.16**	**ug/l**	0.2	**0.13**	**1.1**	**0.06**
MW-12	Nickel	07/31/2007	1.3	ug/l	10	0.66	100	
MW-12	Selenium	07/31/2007	0.8	ug/l	10	0.35	50	
MW-12	Sulfate	07/31/2007	8.3	ug/l	250000	5.0	250000	
MW-12	Toluene	07/31/2007	0.3	ug/l	1	0.13	1000	
MW-12	Total Alkalinity	07/31/2007	1	ug/l	NE	1.0		
MW-12	Total Dissolved Residue	07/31/2007	85	ug/l	NE	1.0		
MW-12	Zinc	07/31/2007	2.6	ug/l	10	1.86	1050	
SW-1	2-Butanone	07/31/2007	1.8	ug/l	100	0.85	4200	
SW-1	Acetone	07/31/2007	3.9	ug/l	100	1.21	700	
SW-1	Arsenic	07/31/2007	4.3	ug/l	10	0.47	50	
SW-1	Barium	07/31/2007	49.4	ug/l	100	0.04	2000	
SW-1	Chloromethane	07/31/2007	0.3	ug/l	1	0.18		
SW-1	Chromium	07/31/2007	0.5	ug/l	10	1.38	50	
SW-1	Cobalt	07/31/2007	0.7	ug/l	10	0.41		
SW-1	Copper	07/31/2007	0.5	ug/l	10	2.24	1000	
SW-1	Lead	07/31/2007	0.9	ug/l	10	0.07	15	
SW-1	Nickel	07/31/2007	0.8	ug/l	10	1.35	100	
SW-1	Toluene	07/31/2007	0.4	ug/l	1	0.13	1000	
SW-1	Vanadium	07/31/2007	1	ug/l	25	1.21		
SW-1	Zinc	07/31/2007	3.6	ug/l	10	0.20	1050	
SW-2	2-Butanone	07/31/2007	2.1	ug/l	100	0.85	4200	
SW-2	Acetone	07/31/2007	3.3	ug/l	100	1.21	700	
SW-2	Antimony	07/31/2007	0.1	ug/l	6	0.05		
SW-2	Arsenic	07/31/2007	6.1	ug/l	10	0.47	50	
SW-2	Barium	07/31/2007	28.5	ug/l	100	0.34	2000	
SW-2	Beryllium	07/31/2007	0.1	ug/l	1	0.08		
SW-2	Cadmium	07/31/2007	0.3	ug/l	1	0.06	1.75	
SW-2	Chromium	07/31/2007	5.6	ug/l	10	1.38	50	
SW-2	Cobalt	07/31/2007	0.6	ug/l	10	2.53		
SW-2	Copper	07/31/2007	2.6	ug/l	10	2.24	1000	
SW-2	Lead	07/31/2007	4.3	ug/l	10	0.07	15	
SW-2	Nickel	07/31/2007	2.5	ug/l	10	1.35	100	
SW-2	Toluene	07/31/2007	0.4	ug/l	1	0.13	1000	
SW-2	Vanadium	07/31/2007	10.8	ug/l	25	1.21		
SW-2	Zinc	07/31/2007	9.6	ug/l	10	0.20	1050	

[1] Table contains all constituents detected above MDL

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

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

[4] MDL = Method Detection Limit

NE=Not Established

Hydrologic Properties at Monitoring Well Locations
Lenoir County Closed MSWLF and C&D Landfill

Monitoring Well	Hydraulic Conductivity (cm/sec)	Effective Porosity (%)	Hydraulic Gradient	Flow Rate (ft/yr)	Flow Direction	Water Table Depth (ft)	Water Table Elev. (ft)
MW-1	4.30E-04	20%	0.01	30.6	N20E	16.23	82.11
MW-3	1.30E-04	20%	0.01	7.3	N41E	6.11	57.76
MW-4	5.40E-04	20%	0.01	27.8	N38E	5.87	62.16
MW-6	-	-	0.01	-	N1W	11.18	74.38
MW-9	3.80E-04	20%	0.01	15.3	N46E	5.45	56.95
MW-11	6.59E-04	20%	0.01	20.7	N16E	12.36	65.9
MW-12	2.10E-04	20%	0.007	7.7	N36E	15.61	61.85

NOTE: 1.Hydraulic conductivity (K), values for MW-1 through MW-10 were obtained from GAI Consultants (June 1996).

K values for MW-11 and MW-12 were based on slug test results conducted by MESCO in July 1999.

2.Water levels were measured prior to sampling by Environment 1, Inc. on July 31, 2007.

Flow rate (Q) is defined by the equation:

where

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

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

Statistical Analysis Results Summary

Inter-Well Analysis Summary
Lenoir County Closed Sanitary Landfill

Background Well: MW-1

Mercury, total

%ND	Normality	Method	ND Adj.	Upper Limit (a = 95%)	Unit
100	-	Poisson tolerance limit	ND	2.5	ug/l

Well	Result	Significance
MW-12	1.16	no

Zinc, total

%ND	Normality	Method	ND Adj.	Upper Limit (a = 95%)	Unit
100	log-normal	Poisson tolerance limit	ND	8	log[ug/l]

Well	Result	Significance
MW-3	4.08	no

NOTE: Bold-faced monitoring points indicate detected levels exceed North Carolina Groundwater Standard.

Summary of Pooled VOCs in Background Well (MW-1)
Lenoir County Closed Sanitary Landfill

Constituent	Samples	NDs	% NDs
1,1,1,2-Tetrachloroethane	29	29	100.00
1,1,1-Trichloroethane	29	29	100.00
1,1,2,2-Tetrachloroethane	29	29	100.00
1,1,2-Trichloroethane	29	29	100.00
1,1-Dichloroethane	29	29	100.00
1,1-Dichloroethene	29	29	100.00
1,2,3-Trichloropropane	29	29	100.00
1,2-Dibromo-3-chloropropane	29	29	100.00
1,2-Dibromoethane	29	29	100.00
1,2-Dichlorobenzene	29	29	100.00
1,2-Dichloroethane	29	29	100.00
1,2-Dichloropropane	29	29	100.00
1,4-Dichlorobenzene	29	29	100.00
2-Butanone	29	29	100.00
2-Hexanone	29	29	100.00
4-Methyl-2-Pentanone	29	29	100.00
Acetone	29	29	100.00
Acrylonitrile	29	29	100.00
Benzene	29	29	100.00
Bromochloromethane	29	29	100.00
Bromodichloromethane	29	29	100.00
Bromoform	29	29	100.00
Bromomethane	29	29	100.00
Carbon disulfide	29	29	100.00
Carbon tetrachloride	29	29	100.00
Chlorobenzene	29	29	100.00
Chloroethane	29	29	100.00
Chloroform	29	29	100.00
Chloromethane	29	29	100.00
cis-1,2-Dichloroethene	29	29	100.00
cis-1,3-Dichloropropene	29	29	100.00
Chlorodibromomethane	29	29	100.00
Dibromomethane	29	29	100.00
Ethylbenzene	29	29	100.00
Iodomethane	29	29	100.00
Dichloromethane	29	29	100.00
Styrene	29	29	100.00
Tetrachloroethylene	29	29	100.00
Toluene	29	29	100.00
trans-1,2-Dichloroethene	29	29	100.00
trans-1,3-Dichloropropene	29	29	100.00
trans-1,4-Dichloro-2-butene	29	29	100.00
Trichloroethylene	29	29	100.00
Trichlorofluoromethane	29	29	100.00
Vinyl acetate	29	29	100.00
Vinyl chloride	29	29	100.00
Xylene	29	29	100.00
Total	**1363**	**1363**	**100.00**

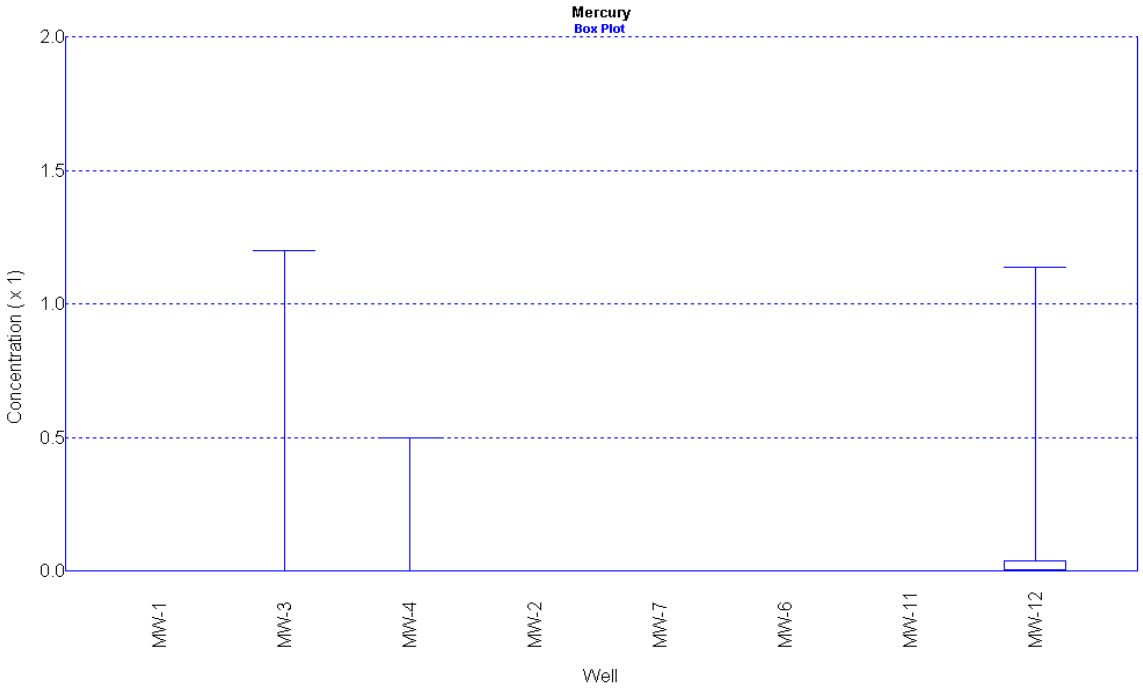
Poisson Prediction Interval Based upon Pooled Background VOCs
Lenoir County Closed Sanitary Landfill

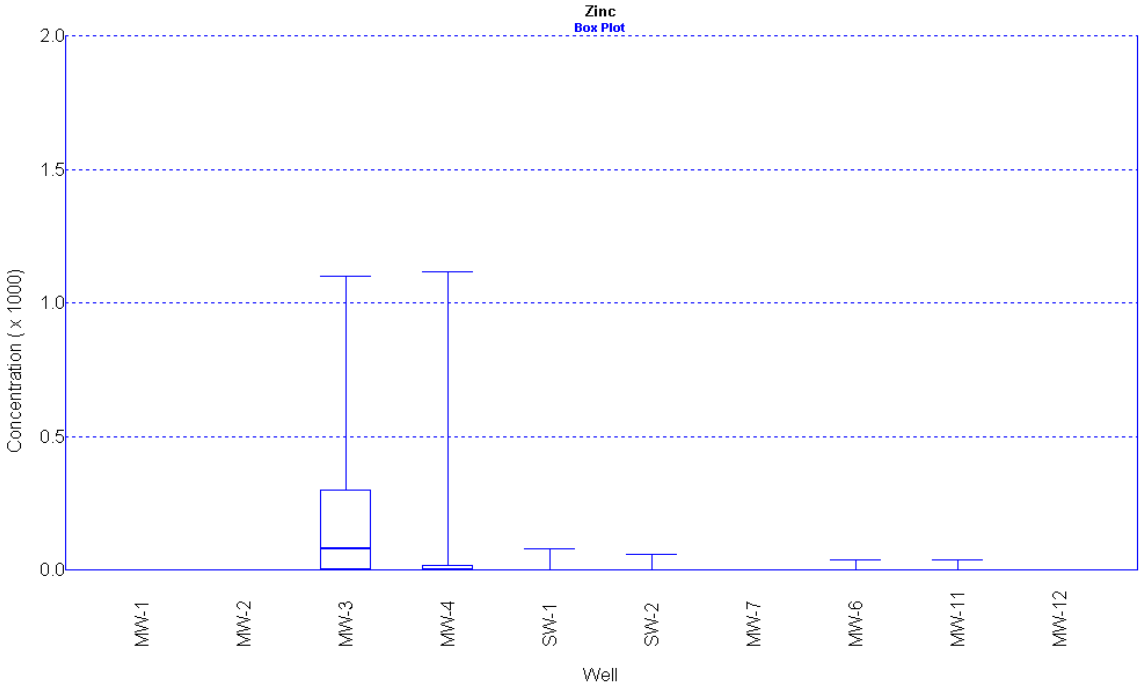
All detected VOCs (Background Well: MW-1)	
Constituent	
None	
Detection(s) per Scan	0.00

Total number of sampling events [n] =	29
Total number of detections in background wells [y] =	0
Number of comparisons (downgradient wells) [k] =	6
One-sided value of Student's t-statistic (95% confidence) [t] =	2.52
Expected number of detections in a single future sample [y*] =	**0.2198**

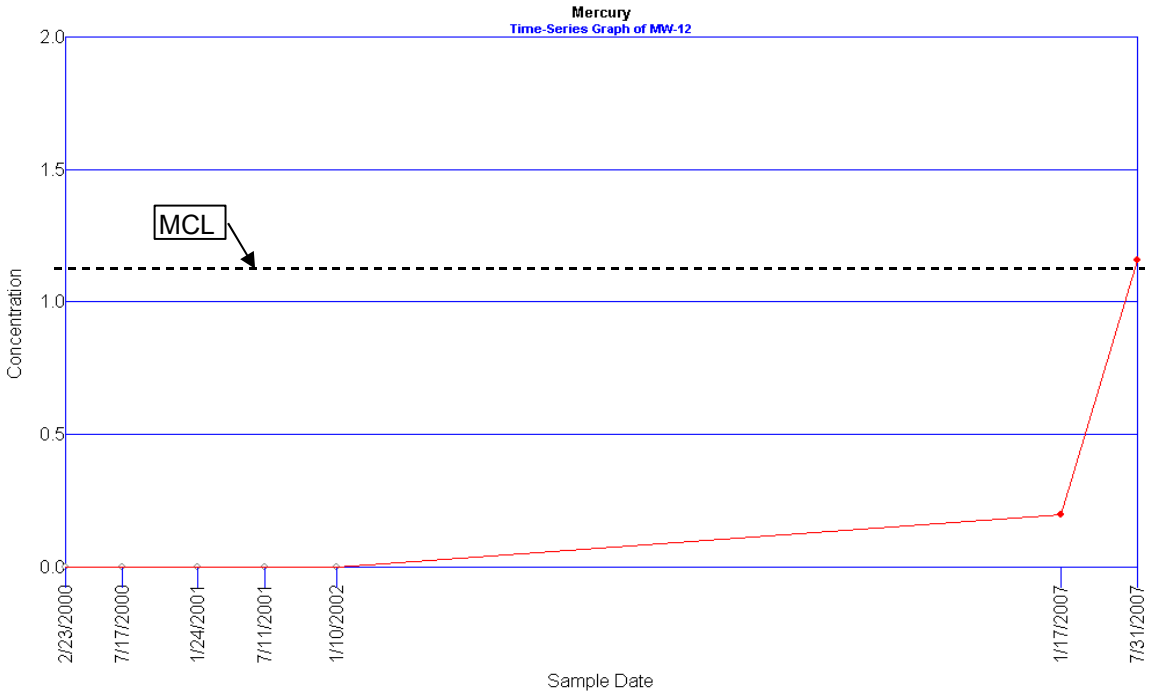
No Statistically Significant VOC Detections

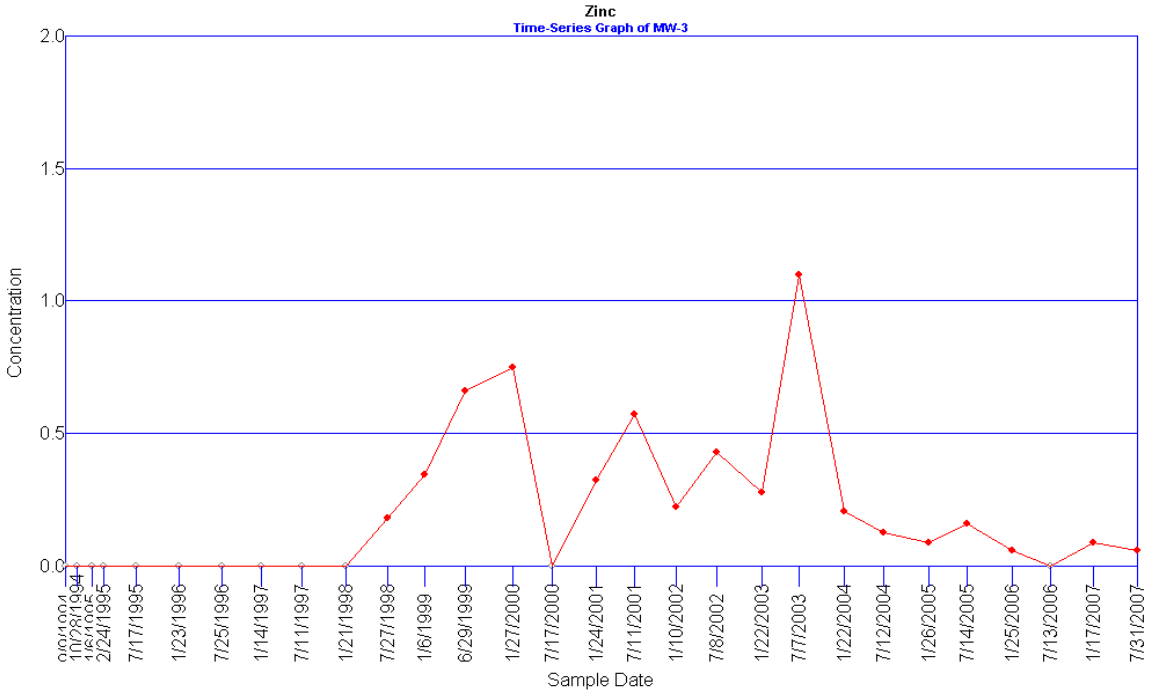
Box Plots for Select Constituents (Metals)
Lenoir County Closed Sanitary Landfill





Time Series Plots for Select Constituents (Metals)
Lenoir County Closed Sanitary Landfill





Basic Statistics

Basic Statistics

Parameter: Mercury

Original Data (Not Transformed)
Non-Detects Replaced with 0

	Total Observations
84	
Total Non-Detects	76
Pooled Mean	0.0921429
Pooled Std Dev	0.360281
Background Mean	0
Background Std Dev	0

Background Wells

There is 1 background well

Well	Samples	Non-Detects	% ND	Total
MW-1	15	15	100	0

Well	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-1	0	0	0	577.5	38.5

Compliance Wells

There are 8 compliance wells

Well	Samples	Non-Detects	% ND	Total
MW-3	19	17	89.4737	1.24
MW-4	15	14	93.3333	0.5
MW-5	5	2	40	4.64
MW-2	4	4	100	0
MW-7	1	1	100	0
MW-6	9	9	100	0
MW-11	8	8	100	0
MW-12	8	6	75	1.36

Well	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
MW-3	0.0652632	0.274942	0.0652632	0.104399	813.5	42.8158
MW-4	0.0333333	0.129099	0.0333333	0.11037	618	41.2
MW-5	0.928	1.01288	0.928	0.156086	324	64.8
MW-2	0	0	0	0.170091	154	38.5
MW-7	0	0	0	0.312173	38.5	38.5
MW-6	0	0	0	0.127444	346.5	38.5
MW-11	0	0	0	0.132329	308	38.5
MW-12	0.17	0.406096	0.17	0.132329	390	48.75

Analysis of Variance Statistics

SS Wells	3.92153
SS Total	10.7736

Kruskal-Wallis Statistics

Non-Detect Rank	38.5
Background Rank Sum	577.5
Background Rank Mean	38.5
H Statistic	5.74487
H Adjusted for Ties	22.1476

Basic Statistics

Parameter: Zinc

Original Data (Not Transformed)
Non-Detects Replaced with 0

	Total Observations
210	
Total Non-Detects	168
Pooled Mean	37.6805
Pooled Std Dev	142.934
Background Mean	0.165517
Background Std Dev	0.891338

Background Wells

There is 1 background well

Well	Samples	Non-Detects	% ND	Total
MW-1	29	28	96.5517	4.8

Well	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-1	0.165517	0.891338	0	2540	87.5862

Compliance Wells

There are 10 compliance wells

Well	Samples	Non-Detects	% ND	Total
MW-2	6	6	100	0
MW-3	29	12	41.3793	5656
MW-4	29	21	72.4138	1606.1
SW-1	27	25	92.5926	93.6
SW-2	26	21	80.7692	185.6
MW-5	9	8	88.8889	125
MW-7	2	2	100	0
MW-6	19	14	73.6842	181.7
MW-11	17	15	88.2353	57.5
MW-12	17	16	94.1176	2.6

Well	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
MW-2	0	0	-0.165517	58.3701	507	84.5
MW-3	195.034	274.894	194.869	34.1781	4405	151.897
MW-4	55.3828	208.162	55.2172	34.1781	3284.5	113.259
SW-1	3.46667	17.3077	3.30115	34.8052	2477.5	91.7593
SW-2	7.13846	19.4209	6.97294	35.1501	2681.5	103.135
MW-5	13.8889	41.6667	13.7234	49.6596	872	96.8889
MW-7	0	0	-0.165517	95.1477	169	84.5
MW-6	9.56316	20.6245	9.39764	38.4128	2078	109.368
MW-11	3.38235	13.0714	3.21684	39.7546	1619.5	95.2647
MW-12	0.152941	0.630593	-0.0125761	39.7546	1521	89.4706

Analysis of Variance Statistics

SS Wells	899222
SS Total	4.26989e+006

Kruskal-Wallis Statistics

Non-Detect Rank	84.5
Background Rank Sum	2540
Background Rank Mean	87.5862
H Statistic	24.1978
H Adjusted for Ties	49.585

Interwell Analyses for Metals

Poisson Tolerance Limit

Parameter: Mercury

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Poisson Count of 15 background Samples = 6.83
Degrees of Freedom = 15

95% Confidence Values

Chi-Squared Value (95% Confidence) = 24.9958
Lambda (from Zack's formula) = 0.833193
Smallest Degrees of Freedom = 7
Upper Tolerance Limit (95%) = 2.5

99% Confidence Values

Chi-Squared Value (99% Confidence) = 30.578
Lambda (from Zack's formula) = 1.01927
Smallest Degrees of Freedom = 9
Upper Tolerance Limit (99%) = 3.5

	Date	Result	Impacted 95%	Impacted 99%
MW-12	2/23/2000	ND<0.5	FALSE	FALSE
	2/23/2000	ND<0.5	FALSE	FALSE
	7/17/2000	ND<0.5	FALSE	FALSE
	1/24/2001	ND<0.5	FALSE	FALSE
	7/11/2001	ND<0.5	FALSE	FALSE
	1/10/2002	ND<0.5	FALSE	FALSE
	1/17/2007	0.2	FALSE	FALSE
	7/31/2007	1.16	FALSE	FALSE

Poisson Tolerance Limit

Parameter: Zinc

Natural Logarithm Transformation
Non-Detects Replaced with Detection Limit

Poisson Count of 29 background Samples = 109.496
Degrees of Freedom = 220

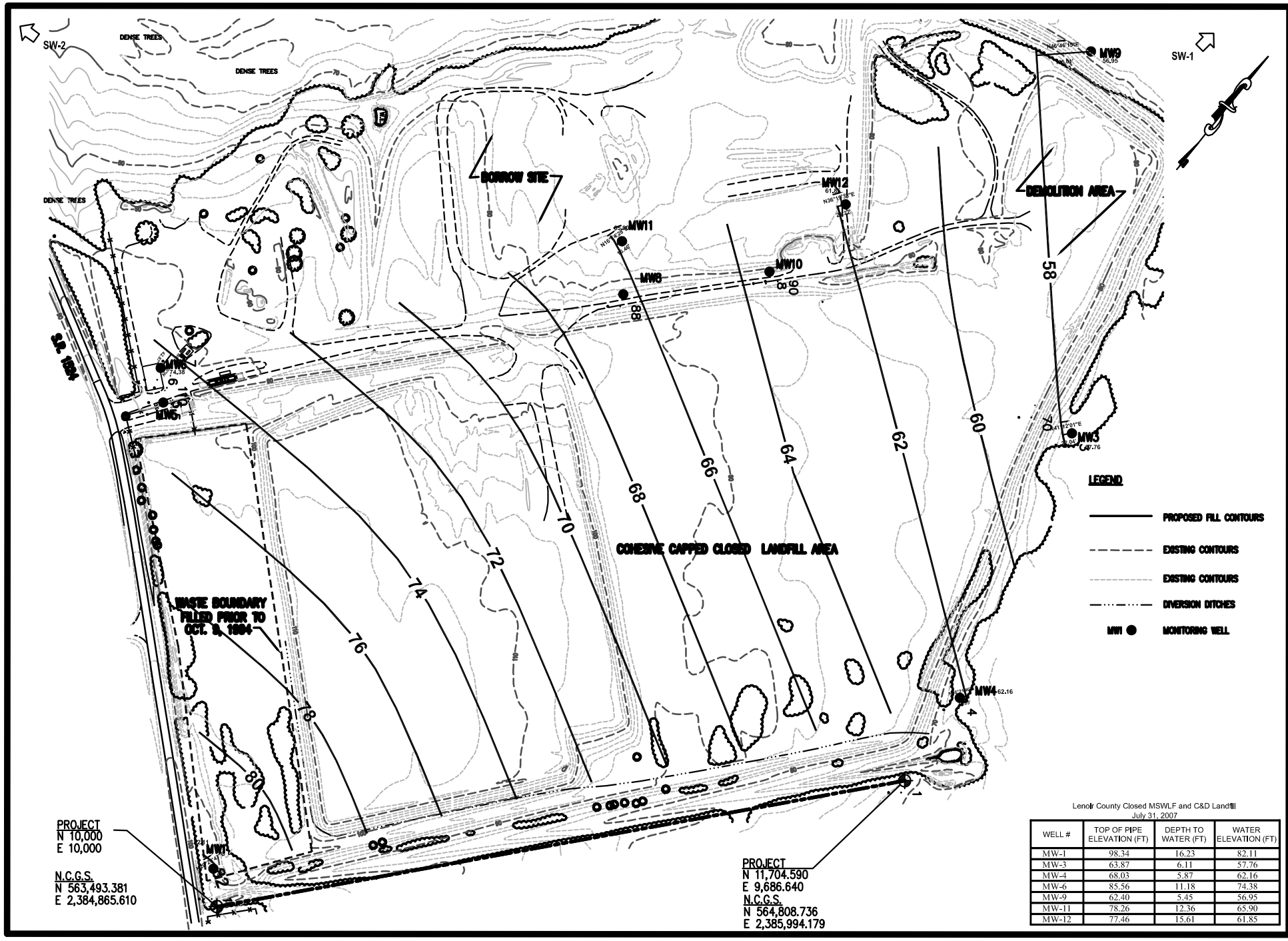
95% Confidence Values

Chi-Squared Value (95% Confidence) = 255.602
Lambda (from Zack's formula) = 4.40693
Smallest Degrees of Freedom = 18
Upper Tolerance Limit (95%) = 8

99% Confidence Values

Chi-Squared Value (99% Confidence) = 271.717
Lambda (from Zack's formula) = 4.68478
Smallest Degrees of Freedom = 22
Upper Tolerance Limit (99%) = 10

	Date	Result	Impacted 95%	Impacted 99%
MW-3	9/9/1994	ND<3.91202	FALSE	FALSE
	10/28/1994	ND<3.91202	FALSE	FALSE
	1/6/1995	ND<3.91202	FALSE	FALSE
	2/24/1995	ND<3.91202	FALSE	FALSE
	7/17/1995	ND<3.91202	FALSE	FALSE
	1/23/1996	ND<3.91202	FALSE	FALSE
	7/25/1996	ND<3.91202	FALSE	FALSE
	1/14/1997	ND<3.91202	FALSE	FALSE
	7/11/1997	ND<3.91202	FALSE	FALSE
	1/21/1998	ND<3.91202	FALSE	FALSE
	7/27/1998	5.18739	FALSE	FALSE
	1/6/1999	5.84932	FALSE	FALSE
	6/29/1999	6.49527	FALSE	FALSE
	1/27/2000	6.62007	FALSE	FALSE
	7/17/2000	ND<3.91202	FALSE	FALSE
	1/24/2001	5.78074	FALSE	FALSE
	7/11/2001	6.34914	FALSE	FALSE
	1/10/2002	5.4161	FALSE	FALSE
	7/8/2002	6.06611	FALSE	FALSE
	1/22/2003	5.63479	FALSE	FALSE
	7/7/2003	7.00397	FALSE	FALSE
	1/22/2004	5.33754	FALSE	FALSE
	7/12/2004	4.83628	FALSE	FALSE
	1/26/2005	4.46591	FALSE	FALSE
	7/14/2005	5.0689	FALSE	FALSE
	1/25/2006	4.04305	FALSE	FALSE
	7/13/2006	ND<3.91202	FALSE	FALSE
	1/17/2007	4.48864	FALSE	FALSE
	7/31/2007	4.07754	FALSE	FALSE



Lenoir County Closed MSWLF and C&D Landfill
July 31, 2007

WELL #	TOP OF PIPE ELEVATION (FT)	DEPTH TO WATER (FT)	WATER ELEVATION (FT)
MW-1	98.34	16.23	82.11
MW-3	63.87	6.11	57.76
MW-4	68.03	5.87	62.16
MW-6	85.56	11.18	74.38
MW-9	62.40	5.45	56.95
MW-11	78.26	12.36	65.90
MW-12	77.46	15.61	61.85

Municipal Engineering Services Company, P.A.

GROUNDWATER SAMPLING
MUNICIPAL SOLID WASTE LANDFILL
LENOIR COUNTY
NORTH CAROLINA

POTENTIOMETRIC MAP
SINGLE DAY

SCALE: 1"=100'
DATE: 3-31-08
DRAWN BY: J. MAHONEY
CHKD. BY: R. SIMMONS
PROJECT NUMBER: 080004
DRAWING NO.: PM
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#: 6009

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

DATE COLLECTED: 07/31/07
DATE REPORTED : 08/27/07

REVIEWED BY:

PARAMETERS	MDL	SWSL	Well #1	Well #3	Well #4	Well #6	Well #9	Analysis Date	Analyst	Method Code
PH (field measurement), Units			4.4	5.8	5.0	4.9	5.0	07/31/07	RJH	SM4500HB
Total Alkalinity, mg/l	1.0	1.0	--- U	92	1	--- U	1	07/31/07	TRB	SM2320B
Chloride, mg/l	5.0	5.0	8	60	5	--- U	6	08/01/07	MDM	SM4500-CLB
Cyanide, ug/l	5.0	10.0		--- U				08/07/07	SEJ	SM4500 CN-
Total Dissolved Residue, mg/l	1.0	1.0	60	99	60	42	64	08/01/07	TRB	SM2540C
Sulfate, mg/l	5.0	250.0	8.6 J	6.1 J	13.7 J	21.8 J	12.0 J	08/02/07	TRB	SM4500-SO4
Antimony, ug/l	0.05	6.0	--- U	--- U	0.1 J	0.2 J	--- U	08/03/07	CMF	EPA200.8
Arsenic, ug/l	0.47	10.0	--- U	0.7 J	4.0 J	--- U	0.5 J	08/03/07	CMF	EPA200.8
Barium, ug/l	0.34	100.0	20.6 J	79.3 J	42.6 J	36.6 J	37.0 J	08/03/07	CMF	EPA200.8
Beryllium, ug/l	0.17	1.0	0.1 J	--- U	--- U	--- U	--- U	08/03/07	CMF	EPA200.8
Cadmium, ug/l	0.06	1.0	--- U	--- U	--- U	0.1 J	--- U	08/03/07	CMF	EPA200.8
Cobalt, ug/l	2.53	10.0	0.8 J	--- U	0.9 J	--- U	4.7 J	08/03/07	CMF	EPA200.8
Copper, ug/l	2.24	10.0	0.4 J	--- U	0.5 J	0.4 J	0.3 J	08/03/07	CMF	EPA200.8
Total Chromium, ug/l	1.38	10.0	0.5 J	0.4 J	0.7 J	--- U	--- U	08/03/07	CMF	EPA200.8
Iron, ug/l	12.0	300.0	773	30800	3346	209 J	1711	08/24/07	ADD	SM3111B
Manganese, ug/l	0.50	50.0	12 J	34 J	74	34 J	241	08/15/07	LFJ	EPA200.7
Lead, ug/l	0.07	10.0	0.6 J	0.2 J	0.3 J	0.4 J	0.1 J	08/03/07	CMF	EPA200.8
Mercury, ug/l	0.13	0.20	--- U	0.04 J	--- U	--- U	0.11 J	08/03/07	CMF	EPA200.8
Nickel, ug/l	1.35	50.0	1.0 J	1.4 J	1.1 J	0.8 J	2.1 J	08/03/07	CMF	EPA200.8
Selenium, ug/l	0.35	10.0	--- U	--- U	--- U	0.7 J	--- U	08/03/07	CMF	EPA200.8
Silver, ug/l	2.32	10.0	--- U	--- U	--- U	--- U	--- U	08/03/07	CMF	EPA200.8
Thallium, ug/l	0.07	5.0	0.3 J	0.1 J	0.2 J	0.2 J	0.1 J	08/03/07	CMF	EPA200.8
Tin, ug/l	2.75	100.0		2.1 J				08/03/07	CMF	EPA200.8
Vanadium, ug/l	1.21	25.0	0.8 J	0.8 J	1.7 J	--- U	--- U	08/03/07	CMF	EPA200.8
Zinc, ug/l	1.86	10.0	4.8 J	59	4.1 J	2.7 J	7.5 J	08/03/07	CMF	EPA200.8
Sulfide, ug/l	100	1000		--- U				08/02/07	LFJ	SM4500-S2D
Conductivity (at 25c), uMhos	1.0	1.0	86	258	102	103	102	07/31/07	RJH	SM2510B
Temperature, °C			19	22	22	20	20	07/31/07	RJH	SM2550B
Static Water Level, feet			16.23	6.11	5.87	11.18	5.45	07/31/07	RJH	
Well Depth, feet			38.94	15.82	15.92	16.96	21.82	07/31/07	RJH	

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

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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

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

ID#: 6009

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

DATE COLLECTED: 07/31/07
DATE REPORTED : 08/27/07

REVIEWED BY:

PARAMETERS	MDL	SWSL	Well #11	Well #12	SW-1	SW-2	Analysis Date	Analyst	Method Code
PH (field measurement), Units			5.3	4.9	6.3	6.9	07/31/07	RJH	SM4500HB
Total Alkalinity, mg/l	1.0	1.0	--- U	1			07/31/07	TRB	SM2320B
Chloride, mg/l	5.0	5.0	19	29			08/01/07	MDM	SM4500-CLB
Total Dissolved Residue, mg/l	1.0	1.0	43	85			08/01/07	TRB	SM2540C
Sulfate, mg/l	5.0	250.0	--- U	8.3 J			08/02/07	TRB	SM4500-SO4E
Antimony, ug/l	0.05	6.0	--- U	--- U	--- U	0.1 J	08/03/07	CMF	EPA200.8
Arsenic, ug/l	0.47	10.0	--- U	--- U	4.3 J	6.1 J	08/03/07	CMF	EPA200.8
Barium, ug/l	0.04	100.0	23.6 J	86.8 J	49.4 J	28.5 J	08/03/07	CMF	EPA200.8
Beryllium, ug/l	0.08	1.0	--- U	--- U	--- U	0.1 J	08/03/07	CMF	EPA200.8
Cadmium, ug/l	0.06	1.0	--- U	--- U	--- U	0.3 J	08/03/07	CMF	EPA200.8
Cobalt, ug/l	0.41	10.0	--- U	0.7 J	0.7 J	0.6 J	08/03/07	CMF	EPA200.8
Copper, ug/l	0.20	10.0	0.6 J	0.7 J	0.5 J	2.6 J	08/03/07	CMF	EPA200.8
Total Chromium, ug/l	0.24	10.0	0.3 J	--- U	0.5 J	5.6 J	08/03/07	CMF	EPA200.8
Iron, ug/l	12.0	300.0	879	258 J			08/24/07	ADD	SM3111B
Manganese, ug/l	0.50	50.0	14 J	7.3 J			08/15/07	LFJ	EPA200.7
Lead, ug/l	0.07	10.0	0.1 J	--- U	0.9 J	4.3 J	08/03/07	CMF	EPA200.8
Mercury, ug/l	0.13	0.20	--- U	1.16			08/03/07	CMF	EPA200.8
Nickel, ug/l	0.66	50.0	--- U	1.3 J	0.8 J	2.5 J	08/03/07	CMF	EPA200.8
Selenium, ug/l	0.35	10.0	--- U	0.8 J	--- U	--- U	08/03/07	CMF	EPA200.8
Silver, ug/l	0.52	10.0	--- U	--- U	--- U	--- U	08/03/07	CMF	EPA200.8
Thallium, ug/l	0.07	5.0	--- U	--- U	--- U	--- U	08/03/07	CMF	EPA200.8
Vanadium, ug/l	0.42	25.0	1.0 J	--- U	1.0 J	10.8 J	08/03/07	CMF	EPA200.8
Zinc, ug/l	0.20	10.0	3.5 J	2.6 J	3.6 J	9.6 J	08/03/07	CMF	EPA200.8
Conductivity (at 25c), uMhos	1.0	1.0	61	158	97	217	07/31/07	RJH	SM2510B
Temperature, °C			19	20	25	25	07/31/07	RJH	SM2550B
Static Water Level, feet			12.36	15.61			07/31/07	RJH	
Well Depth, feet			35.61	38.39			07/31/07	RJH	

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

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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

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

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

REVIEWED BY:

CLIENT ID: 6009

ANALYST: CHS
DATE COLLECTED: 07/31/07
DATE EXTRACTED: 08/02/07
DATE ANALYZED: 08/16/07
DATE REPORTED: 08/27/07

PESTICIDES AND PCB'S
EPA METHOD 8081A

PARAMETERS, ug/l	MDL	SWSL	Well #3
1. Aldrin	0.029	0.05	--- U
2. Alpha-BHC	0.032	0.05	--- U
3. Beta-BHC	0.031	0.05	--- U
4. Delta-BHC	0.030	0.05	--- U
5. Gamma-BHC (Lindane)	0.032	0.05	--- U
6. Chlordane	0.320	0.50	--- U
7. 4,4-DDD	0.051	0.10	--- U
8. 4,4-DDE	0.049	0.10	--- U
9. 4,4-DDT	0.052	0.10	--- U
10. Dieldrin	0.042	0.07	--- U
11. Endosulfan I	0.056	0.10	--- U
12. Endosulfan II	0.046	0.10	--- U
13. Endosulfan Sulfate	0.072	0.10	--- U
14. Endrin	0.053	0.10	--- U
15. Endrin Aldehyde	0.068	0.10	--- U
16. Heptachlor	0.039	0.05	--- U
17. Hepthchlor Epoxide	0.042	0.07	--- U
18. Methoxychlor	0.530	1.00	--- U
19. Pcb's (Aroclors)	0.500	2.00	--- U
20. Toxaphene	0.690	1.00	--- U

NOTE: Spike recovery for Well 3 was outside control limits due to sample matrix interference

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

REVIEWED BY:

CLIENT ID: 6009

ANALYST: CHS
DATE COLLECTED: 07/31/07
DATE EXTRACTED: 08/07/07
DATE ANALYZED: 08/08/07
DATE REPORTED: 08/27/07

LANDFILL APPENDIX II
EPA METHOD 8151A

PARAMETERS, ug/l	MDL	SWSL	Well #3
1. 2,4-D	0.36	2.0	--- U
2. Dinoseb	0.54	1.0	--- U
3. 2,4,5-TP	0.42	2.0	--- U
4. 2,4,5-T	0.47	2.0	--- 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 (OLD)
COUNTY OF LENOIR
MR. TOM MILLER
P.O. BOX 756
KINSTON, NC 28502

CLIENT ID: 6009

ANALYST: MAO
DATE COLLECTED: 07/31/07
DATE ANALYZED: 08/07/07
DATE REPORTED: 08/27/07

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Well #1	Well #4	Well #6	Well #9	Well #11
1. Chloromethane	0.18	1.0	--- U	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.34	1.0	--- U	--- U	--- U	--- U	--- U
3. Bromomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.29	10.0	--- U	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.14	5.0	--- U	--- U	--- U	--- U	--- U
7. Acetone	1.21	100.0	1.40 J	2.80 J	1.50 J	--- U	--- U
8. Iodomethane	0.12	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.14	100.0	--- U	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.14	1.0	--- U	--- U	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.13	5.0	--- U	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.16	5.0	--- U	--- U	--- U	--- U	--- U
13. Vinyl Acetate	0.20	5.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	--- U	--- U	0.20 J	--- U	--- U
15. 2-Butanone	0.85	100.0	2.70 J	2.30 J	1.60 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	--- U	--- U	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.12	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.13	1.0	--- U	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.17	1.0	--- U	--- U	--- U	--- U	0.40 J
24. Bromodichloromethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.17	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	0.68	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.13	1.0	0.30 J	0.40 J	0.20 J	--- U	--- U
28. trans-1,3-Dichloropropene	0.14	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.20	5.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.16	1.0	--- U	--- U	0.30 J	--- U	--- U
31. 2-Hexanone	1.00	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.14	1.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.13	3.0	--- U	--- U	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.14	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
37. Xylenes	0.48	4.0	--- U	--- U	--- U	--- U	--- U
38. Dibromomethane	0.17	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.11	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	1.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.06	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.21	1.0	--- U	--- U	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.13	5.0	--- U	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.26	1.0	--- U	--- U	--- U	--- U	--- U
46. Acrylonitrile	1.49	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.0	--- U	--- U	--- U	--- U	--- U

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

Environment 1, 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 (OLD)
COUNTY OF LENOIR
MR. TOM MILLER
P.O. BOX 756
KINSTON, NC 28502

CLIENT ID: 6009

ANALYST: MAO
DATE COLLECTED: 07/31/07
DATE ANALYZED: 08/07/07
DATE REPORTED: 08/27/07

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Well #12	SW-1	SW-2
1. Chloromethane	0.18	1.0	--- U	0.30 J	--- U
2. Vinyl Chloride	0.34	1.0	--- U	--- U	--- U
3. Bromomethane	0.26	10.0	--- U	--- U	--- U
4. Chloroethane	0.29	10.0	--- U	--- U	--- U
5. Trichlorofluoromethane	0.13	1.0	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.14	5.0	--- U	--- U	--- U
7. Acetone	1.21	100.0	1.30 J	3.90 J	3.30 J
8. Iodomethane	0.12	10.0	--- U	--- U	--- U
9. Carbon Disulfide	0.14	100.0	--- U	--- U	--- U
10. Methylene Chloride	0.14	1.0	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.13	5.0	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.16	5.0	--- U	--- U	--- U
13. Vinyl Acetate	0.20	5.0	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	--- U	--- U	--- U
15. 2-Butanone	0.85	100.0	--- U	1.80 J	2.10 J
16. Bromochloromethane	0.11	3.0	--- U	--- U	--- U
17. Chloroform	0.13	5.0	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.11	1.0	--- U	--- U	--- U
19. Carbon Tetrachloride	0.13	1.0	--- U	--- U	--- U
20. Benzene	0.16	1.0	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.12	1.0	--- U	--- U	--- U
22. Trichloroethene	0.13	1.0	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.17	1.0	--- U	--- U	--- U
24. Bromodichloromethane	0.13	1.0	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.17	1.0	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	0.68	100.0	--- U	--- U	--- U
27. Toluene	0.13	1.0	0.30 J	0.40 J	0.40 J
28. trans-1,3-Dichloropropene	0.14	1.0	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.20	5.0	--- U	--- U	--- U
30. Tetrachloroethene	0.16	1.0	--- U	--- U	--- U
31. 2-Hexanone	1.00	50.0	--- U	--- U	--- U
32. Dibromochloromethane	0.14	1.0	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U	--- U	--- U
34. Chlorobenzene	0.13	3.0	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.14	5.0	--- U	--- U	--- U
36. Ethylbenzene	0.16	1.0	--- U	--- U	--- U
37. Xylenes	0.48	4.0	--- U	--- U	--- U
38. Dibromomethane	0.17	10.0	--- U	--- U	--- U
39. Styrene	0.16	1.0	--- U	--- U	--- U
40. Bromoform	0.11	3.0	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	1.0	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.06	1.0	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.21	1.0	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.13	5.0	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.26	1.0	--- U	--- U	--- U
46. Acrylonitrile	1.49	200.0	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.0	--- U	--- U	--- U

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

Environment 1, 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 (OLD)
COUNTY OF LENOIR
MR. TOM MILLER
P.O. BOX 756
KINSTON, NC 28502

REVIEWED BY:

CLIENT ID: 6009

ANALYST: CHS
DATE COLLECTED: 07/31/07
DATE EXTRACTED: 08/06/07
DATE ANALYZED: 08/15/07
DATE REPORTED: 08/27/07

SEMI-VOLATILE ORGANICS
EPA METHOD 8270C

PARAMETERS, ug/l	MDL	SWSL	Well #3
1. Acenaphthene	2.66	10.0	--- U
2. Acenaphthylene	2.60	10.0	--- U
3. Anthracene	2.97	10.0	--- U
4. Benzo[a]antrhacene	4.16	10.0	--- U
5. Benzo[b]fluoranthene	3.32	10.0	--- U
6. Benzo[k]fluoranthene	4.23	10.0	--- U
7. Benzo[g,h,i]perylene	2.61	10.0	--- U
8. Benzo[a]pyrene	3.27	10.0	--- U
9. 4-Bromophenyl Phenyl Ether	2.63	10.0	--- U
10. Butyl Benzyl Phthalate	5.78	10.0	--- U
11. Bis-(2-Chloroethoxy) Methane	3.14	10.0	--- U
12. Bis-(2-Chloroethyl) Ether	2.58	10.0	--- U
13. Bis-(2-Chloroisopropyl) Ether	2.58	10.0	--- U
14. 2-Chloronaphthalene	2.17	10.0	--- U
15. 4-Chlorophenyl Phenyl Ether	2.42	10.0	--- U
16. Chrysene	4.04	10.0	--- U
17. Dibenzo[a,h]anthracene	2.78	10.0	--- U
18. Di-N-Butyl Phthalate	3.09	10.0	--- U
19. Dimethyl Phthalate	3.78	10.0	--- U
20. Diethyl Phthalate	3.92	10.0	--- U
21. 2,4-Dinitrotoluene	3.95	10.0	--- U
22. 2,6-Dinitrotoluene	3.88	10.0	--- U
23. Di-N-Octyl Phthalate	2.81	10.0	--- U
24. Bis-(2-Ethylhexyl) Phthalate	9.97	15.0	--- U
25. Fluoranthene	3.92	10.0	--- U
26. Fluorene	2.95	10.0	--- U
27. Hexachlorobenzene	2.61	10.0	--- U
28. Hexachlorocyclopentadiene	4.16	10.0	--- U
29. Indeno[1,2,3-Cd]pyrene	2.91	10.0	--- U
30. Isophorone	3.74	10.0	--- U
31. Nitrobenzene	2.85	10.0	--- U
32. N-Nitrosodimethylamine	4.25	10.0	--- U
33. N-Nitrosodiphenylamine	3.95	10.0	--- U
34. N-Nitrosodi-N-Propylamine	4.06	10.0	--- U
35. Phenanthrene	3.24	10.0	--- U
36. Pyrene	3.63	10.0	--- U
37. 4-Chloro-3-Methylphenol	3.79	20.0	--- U
38. 2-Chlorophenol	2.75	10.0	--- U
39. O-Cresol	3.68	10.0	--- U
40. P-Cresol	4.12	10.0	--- U
41. 2,4-Dichlorophenol	5.19	10.0	--- U
42. 2,6-Dichlorophenol	4.89	10.0	--- U
43. 2,4-Dimethylphenol	3.21	10.0	--- U
44. 4,6-Dinitro-2-Methylphenol	4.77	50.0	--- U
45. 2,4-Dinitrophenol	4.37	50.0	--- U
46. Ethyl Methanesulfonate	5.26	10.0	--- U
47. Methyl Methanesulfonate	4.92	10.0	--- U
48. 2-Nitrophenol	3.64	10.0	--- 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
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CLIENT: LENOIR CO. LANDFILL (OLD)
COUNTY OF LENOIR
MR. TOM MILLER
P.O. BOX 756
KINSTON, NC 28502

REVIEWED BY:

CLIENT ID: 6009

ANALYST: CHS
DATE COLLECTED: 07/31/07
DATE EXTRACTED: 08/06/07
DATE ANALYZED: 08/15/07
DATE REPORTED: 08/27/07

SEMI-VOLATILE ORGANICS
EPA METHOD 8270C

PARAMETERS, ug/l	MDL	SWSL	Well #3
49. 4-Nitrophenol	3.17	50.0	--- U
50. Pentachlorophenol	5.33	25.0	--- U
51. Phenol	1.86	10.0	--- U
52. 2,3,4,6-Tetrachlorophenol	3.12	10.0	--- U
53. 2,4,5-Trichlorophenol	4.17	10.0	--- U
54. 2,4,6-Trichlorophenol	3.84	10.0	--- U
55. Acetophenone	2.89	10.0	--- U
56. 2-Acetylaminofluorene	3.98	20.0	--- U
57. 4-Aminobiphenyl	4.12	15.0	--- U
58. Benzyl Alcohol	4.47	20.0	--- U
59. 4-Chloroaniline	3.36	20.0	--- U
60. Chlorobenzilate	5.12	10.0	--- U
61. Diallate	2.98	10.0	--- U
62. Dibenzofuran	4.28	10.0	--- U
63. 3,3-Dichlorobenzidine	4.22	20.0	--- U
64. Dimethoate	3.98	20.0	--- U
65. P-Dimethylaminoazobenzene	2.89	10.0	--- U
66. 7,12-Dimethylbenz[a]anthracene	5.26	10.0	--- U
67. 3,3-Dimethylbenzadine	3.21	10.0	--- U
68. 1,3-Dinitrobenzene	2.89	20.0	--- U
69. Diphenylamine	5.10	10.0	--- U
70. Disulfoton	4.28	10.0	--- U
71. Famphur	3.98	20.0	--- U
72. Hexachloropropene	4.31	10.0	--- U
73. Isosafrole	2.88	10.0	--- U
74. Kepone	2.78	20.0	--- U
75. Methapyrilene	3.54	100.0	--- U
76. 3-Methylchloroanthrene	4.21	10.0	--- U
77. 2-Methylnaphthalene	3.79	10.0	--- U
78. Methyl Parathion	4.32	10.0	--- U
79. m-Cresol	3.81	10.0	--- U
80. 1,4-Naphthoquinone	4.00	10.0	--- U
81. 1-Naphthylamine	5.61	10.0	--- U
82. 2-Naphthylamine	4.62	10.0	--- U
83. 2-Nitroaniline	3.61	50.0	--- U
84. 3-Nitroaniline	4.81	50.0	--- U
85. 4-Nitroaniline	4.22	20.0	--- U
86. 5-Nitro-O-Toluidine	4.01	10.0	--- U
87. N-Nitrosodi-n-butylamine	3.63	10.0	--- U
88. N-Nitrosodiethylamine	3.83	20.0	--- U
89. N-Nitrosomethylethylamine	3.83	10.0	--- U
90. N-Nitrosopiperidine	5.19	20.0	--- U
91. N-Nitrosopyrrolidine	2.89	10.0	--- U
92. Parathion	3.12	10.0	--- U
93. Pentachlorobenzene	3.92	10.0	--- U
94. Pentachloronitrobenzene	3.71	20.0	--- U
95. Phenacetin	4.41	20.0	--- U
96. 1,4 Benzenediamine	2.99	10.0	--- U

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

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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

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COUNTY OF LENOIR
MR. TOM MILLER
P.O. BOX 756
KINSTON, NC 28502

REVIEWED BY: _____

CLIENT ID: 6009

ANALYST: CHS
DATE COLLECTED: 07/31/07
DATE EXTRACTED: 08/06/07
DATE ANALYZED: 08/15/07
DATE REPORTED: 08/27/07

SEMI-VOLATILE ORGANICS
EPA METHOD 8270C

PARAMETERS, ug/l	MDL	SWSL	Well #3
97. Phorate	3.86	10.0	--- U
98. Pronamide	3.69	10.0	--- U
99. Safrole	4.12	10.0	--- U
100. 1,2,4,5-Tetrachlorobenzene	5.01	10.0	--- U
101. Thionazin	4.62	20.0	--- U
102. O-Toluidine	4.11	10.0	--- U
103. 1,3,5-Trinitrobenzene	3.98	10.0	--- U
104. 0,0,0-Triethyl Phosphorothioate	3.61	10.0	--- U
105. Hexachloroethane	1.49	10.0	--- U
106. Isodrin	3.11	20.0	--- U

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

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

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COUNTY OF LENOIR
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KINSTON, NC 28502

CLIENT ID: 6009

ANALYST: MAO
DATE COLLECTED: 07/31/07
DATE ANALYZED: 08/07/07
DATE REPORTED: 08/27/07

REVIEWED BY: _____

LANDFILL APPENDIX II
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Well #3
1. Chloromethane	0.18	1.0	--- U
2. Vinyl Chloride	0.34	1.0	--- U
3. Bromomethane	0.26	10.0	--- U
4. Chloroethane	0.29	10.0	--- U
5. Trichlorofluoromethane	0.13	1.0	--- U
6. 1,1-Dichloroethene	0.14	5.0	--- U
7. Acetone	1.21	100.0	--- U
8. Iodomethane	0.12	10.0	--- U
9. Carbon Disulfide	0.14	100.0	--- U
10. Methylene Chloride	0.14	1.0	--- U
11. trans-1,2-Dichloroethene	0.13	5.0	--- U
12. 1,1-Dichloroethane	0.16	5.0	0.30 J
13. Vinyl Acetate	0.20	5.0	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	--- U
15. 2-Butanone	0.85	100.0	--- U
16. Bromochloromethane	0.11	3.0	--- U
17. Chloroform	0.13	5.0	--- U
18. 1,1,1-Trichloroethane	0.11	1.0	--- U
19. Carbon Tetrachloride	0.13	1.0	--- U
20. Benzene	0.16	1.0	--- U
21. 1,2-Dichloroethane	0.12	1.0	--- U
22. Trichloroethene	0.13	1.0	--- U
23. 1,2-Dichloropropane	0.17	1.0	--- U
24. Bromodichloromethane	0.13	1.0	--- U
25. Cis-1,3-Dichloropropene	0.17	1.0	--- U
26. 4-Methyl-2-Pentanone	0.68	100.0	--- U
27. Toluene	0.13	1.0	0.40 J
28. trans-1,3-Dichloropropene	0.14	1.0	--- U
29. 1,1,2-Trichloroethane	0.20	5.0	--- U
30. Tetrachloroethene	0.16	1.0	--- U
31. 2-Hexanone	1.00	50.0	--- U
32. Dibromochloromethane	0.14	1.0	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U
34. Chlorobenzene	0.13	3.0	--- U
35. 1,1,1,2-Tetrachloroethane	0.14	5.0	--- U
36. Ethylbenzene	0.16	1.0	--- U
37. Xylenes	0.48	4.0	--- U
38. Dibromomethane	0.17	10.0	--- U
39. Styrene	0.16	1.0	--- U
40. Bromoform	0.11	3.0	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	1.0	--- U
42. 1,2,3-Trichloropropane	0.06	1.0	--- U
43. 1,4-Dichlorobenzene	0.21	1.0	--- U
44. 1,2-Dichlorobenzene	0.13	5.0	--- U
45. 1,2-Dibromo-3-Chloropropane	0.26	1.0	--- U
46. Acrylonitrile	1.49	200.0	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.0	--- U
48. Acrolein	5.46	50.0	--- U

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

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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

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COUNTY OF LENOIR
MR. TOM MILLER
P.O. BOX 756
KINSTON, NC 28502

CLIENT ID: 6009

ANALYST: MAO
DATE COLLECTED: 07/31/07
DATE ANALYZED: 08/07/07
DATE REPORTED: 08/27/07

REVIEWED BY: _____

LANDFILL APPENDIX II
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Well #3
49. Allyl Chloride	0.17	10.0	--- U
50. Chloroprene	0.16	20.0	--- U
51. 1,3-Dichlorobenzene	0.13	5.0	--- U
52. Dichlorodifluoromethane	0.16	5.0	--- U
53. 1,3-Dichloropropane	0.12	1.0	--- U
54. 2,2-Dichloropropane	0.18	15.0	--- U
55. 1,1-Dichloropropene	0.13	5.0	--- U
56. Ethyl Methacrylate	0.14	10.0	--- U
57. Hexachlorobutadiene	0.22	10.0	--- U
58. Isobutyl Alcohol	5.23	100.0	--- U
59. Methacrylonitrile	1.64	100.0	--- U
60. Methyl Methacrylate	0.10	30.0	--- U
61. Naphthalene	0.13	10.0	--- U
62. Propionitrile	1.60	150.0	--- U
63. 1,2,4-Trichlorobenzene	0.11	10.0	--- U
64. Acetonitrile	5.96	50.0	--- 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#: 6009 A

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

DATE COLLECTED: 07/31/07
DATE REPORTED : 08/27/07

REVIEWED BY:

PARAMETERS	MDL	SWSL	Equipment Blank	Trip Blank	Analysis Date	Analyst	Method Code
Cyanide, ug/l	5.0	10.0	--- U		08/07/07	SEJ	SM4500 CN-E
Antimony, ug/l	0.05	6.0	--- U		08/03/07	CMF	EPA200.8
Arsenic, ug/l	0.47	10.0	--- U		08/03/07	CMF	EPA200.8
Barium, ug/l	0.04	100.0	0.1 J		08/03/07	CMF	EPA200.8
Beryllium, ug/l	0.08	1.0	--- U		08/03/07	CMF	EPA200.8
Cadmium, ug/l	0.06	1.0	--- U		08/03/07	CMF	EPA200.8
Cobalt, ug/l	0.41	10.0	--- U		08/03/07	CMF	EPA200.8
Copper, ug/l	0.20	10.0	--- U		08/03/07	CMF	EPA200.8
Total Chromium, ug/l	0.24	10.0	--- U		08/03/07	CMF	EPA200.8
Iron, ug/l	12.0	300.0	68 J		08/24/07	ADD	SM3111B
Manganese, ug/l	0.50	50.0	5.3 J		08/08/07	LFJ	EPA200.7
Lead, ug/l	0.07	10.0	--- U		08/03/07	CMF	EPA200.8
Mercury, ug/l	0.13	0.20	--- U		08/03/07	CMF	EPA200.8
Nickel, ug/l	1.35	50.0	0.8 J		08/03/07	CMF	EPA200.8
Selenium, ug/l	0.35	10.0	--- U		08/03/07	CMF	EPA200.8
Silver, ug/l	0.52	10.0	--- U		08/03/07	CMF	EPA200.8
Thallium, ug/l	0.07	5.0	--- U		08/03/07	CMF	EPA200.8
Tin, ug/l	2.75	100.0	4.4 J		08/03/07	CMF	EPA200.8
Vanadium, ug/l	1.21	25.0	--- U		08/03/07	CMF	EPA200.8
Zinc, ug/l	1.86	10.0	1.0 J		08/03/07	CMF	EPA200.8
Sulfide, ug/l	100	1000	--- U		08/02/07	LFJ	SM4500-S2D

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

REVIEWED BY:

CLIENT ID: 6009 A

ANALYST: CHS
DATE COLLECTED: 07/31/07
DATE EXTRACTED: 08/02/07
DATE ANALYZED: 08/16/07
DATE REPORTED: 08/27/07

PESTICIDES AND PCB'S
EPA METHOD 8081A

PARAMETERS, ug/l	MDL	SWSL	Equipment Blank
1. Aldrin	0.029	0.05	--- U
2. Alpha-BHC	0.032	0.05	--- U
3. Beta-BHC	0.031	0.05	--- U
4. Delta-BHC	0.030	0.05	--- U
5. Gamma-BHC (Lindane)	0.032	0.05	--- U
6. Chlordane	0.320	0.50	--- U
7. 4,4-DDD	0.051	0.10	--- U
8. 4,4-DDE	0.049	0.10	--- U
9. 4,4-DDT	0.052	0.10	--- U
10. Dieldrin	0.042	0.07	--- U
11. Endosulfan I	0.056	0.10	--- U
12. Endosulfan II	0.046	0.10	--- U
13. Endosulfan Sulfate	0.072	0.10	--- U
14. Endrin	0.053	0.10	--- U
15. Endrin Aldehyde	0.068	0.10	--- U
16. Heptachlor	0.039	0.05	--- U
17. Hepthchlor Epoxide	0.042	0.07	--- U
18. Methoxychlor	0.530	1.00	--- U
19. Pcb's (Aroclors)	0.500	2.00	--- U
20. Toxaphene	0.690	1.00	--- 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 (OLD)
COUNTY OF LENOIR
MR. TOM MILLER
P.O. BOX 756
KINSTON, NC 28502

REVIEWED BY:

CLIENT ID: 6009 A

ANALYST: CHS
DATE COLLECTED: 07/31/07
DATE EXTRACTED: 08/07/07
DATE ANALYZED: 08/08/07
DATE REPORTED: 08/27/07

LANDFILL APPENDIX II
EPA METHOD 8151A

PARAMETERS, ug/l	MDL	SWSL	Equipment Blank
1. 2,4-D	0.36	2.0	--- U
2. Dinoseb	0.54	1.0	--- U
3. 2,4,5-TP	0.42	2.0	--- U
4. 2,4,5-T	0.47	2.0	--- 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 (OLD)
COUNTY OF LENOIR
MR. TOM MILLER
P.O. BOX 756
KINSTON, NC 28502

REVIEWED BY:

CLIENT ID: 6009 A

ANALYST: CHS
DATE COLLECTED: 07/31/07
DATE EXTRACTED: 08/06/07
DATE ANALYZED: 08/15/07
DATE REPORTED: 08/27/07

SEMI-VOLATILE ORGANICS
EPA METHOD 8270C

PARAMETERS, ug/l	MDL	SWSL	Equipment Blank
1. Acenaphthene	2.66	10.0	--- U
2. Acenaphthylene	2.60	10.0	--- U
3. Anthracene	2.97	10.0	--- U
4. Benzo[a]antrhacene	4.16	10.0	--- U
5. Benzo[b]fluoranthene	3.32	10.0	--- U
6. Benzo[k]fluoranthene	4.23	10.0	--- U
7. Benzo[g,h,i]perylene	2.61	10.0	--- U
8. Benzo[a]pyrene	3.27	10.0	--- U
9. 4-Bromophenyl Phenyl Ether	2.63	10.0	--- U
10. Butyl Benzyl Phthalate	5.78	10.0	--- U
11. Bis-(2-Chloroethoxy) Methane	3.14	10.0	--- U
12. Bis-(2-Chloroethyl) Ether	2.58	10.0	--- U
13. Bis-(2-Chloroisopropyl) Ether	2.58	10.0	--- U
14. 2-Chloronaphthalene	2.17	10.0	--- U
15. 4-Chlorophenyl Phenyl Ether	2.42	10.0	--- U
16. Chrysene	4.04	10.0	--- U
17. Dibenzo[a,h]anthracene	2.78	10.0	--- U
18. Di-N-Butyl Phthalate	3.09	10.0	--- U
19. Dimethyl Phthalate	3.78	10.0	--- U
20. Diethyl Phthalate	3.92	10.0	--- U
21. 2,4-Dinitrotoluene	3.95	10.0	--- U
22. 2,6-Dinitrotoluene	3.88	10.0	--- U
23. Di-N-Octyl Phthalate	2.81	10.0	--- U
24. Bis-(2-Ethylhexyl) Phthalate	9.97	15.0	--- U
25. Fluoranthene	3.92	10.0	--- U
26. Fluorene	2.95	10.0	--- U
27. Hexachlorobenzene	2.61	10.0	--- U
28. Hexachlorocyclopentadiene	4.16	10.0	--- U
29. Indeno[1,2,3-Cd]pyrene	2.91	10.0	--- U
30. Isophorone	3.74	10.0	--- U
31. Nitrobenzene	2.85	10.0	--- U
32. N-Nitrosodimethylamine	4.25	10.0	--- U
33. N-Nitrosodiphenylamine	3.95	10.0	--- U
34. N-Nitrosodi-N-Propylamine	4.06	10.0	--- U
35. Phenanthrene	3.24	10.0	--- U
36. Pyrene	3.63	10.0	--- U
37. 4-Chloro-3-Methylphenol	3.79	20.0	--- U
38. 2-Chlorophenol	2.75	10.0	--- U
39. O-Cresol	3.68	10.0	--- U
40. P-Cresol	4.12	10.0	--- U
41. 2,4-Dichlorophenol	5.19	10.0	--- U
42. 2,6-Dichlorophenol	4.89	10.0	--- U
43. 2,4-Dimethylphenol	3.21	10.0	--- U
44. 4,6-Dinitro-2-Methylphenol	4.77	50.0	--- U
45. 2,4-Dinitrophenol	4.37	50.0	--- U
46. Ethyl Methanesulfonate	5.26	10.0	--- U
47. Methyl Methanesulfonate	4.92	10.0	--- U
48. 2-Nitrophenol	3.64	10.0	--- 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 (OLD)
COUNTY OF LENOIR
MR. TOM MILLER
P.O. BOX 756
KINSTON, NC 28502

REVIEWED BY:

CLIENT ID: 6009 A

ANALYST: CHS
DATE COLLECTED: 07/31/07
DATE EXTRACTED: 08/06/07
DATE ANALYZED: 08/15/07
DATE REPORTED: 08/27/07

SEMI-VOLATILE ORGANICS
EPA METHOD 8270C

PARAMETERS, ug/l	MDL	SWSL	Equipment Blank
49. 4-Nitrophenol	3.17	50.0	--- U
50. Pentachlorophenol	5.33	25.0	--- U
51. Phenol	1.86	10.0	--- U
52. 2,3,4,6-Tetrachlorophenol	3.12	10.0	--- U
53. 2,4,5-Trichlorophenol	4.17	10.0	--- U
54. 2,4,6-Trichlorophenol	3.84	10.0	--- U
55. Acetophenone	2.89	10.0	--- U
56. 2-Acetylaminofluorene	3.98	20.0	--- U
57. 4-Aminobiphenyl	4.12	15.0	--- U
58. Benzyl Alcohol	4.47	20.0	--- U
59. 4-Chloroaniline	3.36	20.0	--- U
60. Chlorobenzilate	5.12	10.0	--- U
61. Diallate	2.98	10.0	--- U
62. Dibenzofuran	4.28	10.0	--- U
63. 3,3-Dichlorobenzidine	4.22	20.0	--- U
64. Dimethoate	3.98	20.0	--- U
65. P-Dimethylaminoazobenzene	2.89	10.0	--- U
66. 7,12-Dimethylbenz[a]anthracene	5.26	10.0	--- U
67. 3,3-Dimethylbenzadine	3.21	10.0	--- U
68. 1,3-Dinitrobenzene	2.89	20.0	--- U
69. Diphenylamine	5.10	10.0	--- U
70. Disulfoton	4.28	10.0	--- U
71. Famphur	3.98	20.0	--- U
72. Hexachloropropene	4.31	10.0	--- U
73. Isosafrole	2.88	10.0	--- U
74. Kepone	2.78	20.0	--- U
75. Methapyrilene	3.54	100.0	--- U
76. 3-Methylchloroanthrene	4.21	10.0	--- U
77. 2-Methylnaphthalene	3.79	10.0	--- U
78. Methyl Parathion	4.32	10.0	--- U
79. m-Cresol	3.81	10.0	--- U
80. 1,4-Naphthoquinone	4.00	10.0	--- U
81. 1-Naphthylamine	5.61	10.0	--- U
82. 2-Naphthylamine	4.62	10.0	--- U
83. 2-Nitroaniline	3.61	50.0	--- U
84. 3-Nitroaniline	4.81	50.0	--- U
85. 4-Nitroaniline	4.22	20.0	--- U
86. 5-Nitro-O-Toluidine	4.01	10.0	--- U
87. N-Nitrosodi-n-butylamine	3.63	10.0	--- U
88. N-Nitrosodiethylamine	3.83	20.0	--- U
89. N-Nitrosomethylethylamine	3.83	10.0	--- U
90. N-Nitrosopiperidine	5.19	20.0	--- U
91. N-Nitrosopyrrolidine	2.89	10.0	--- U
92. Parathion	3.12	10.0	--- U
93. Pentachlorobenzene	3.92	10.0	--- U
94. Pentachloronitrobenzene	3.71	20.0	--- U
95. Phenacetin	4.41	20.0	--- U
96. 1,4 Benzenediamine	2.99	10.0	--- U

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

Environment 1, Incorporated

Drinking Water ID: 17715
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 (OLD)
COUNTY OF LENOIR
MR. TOM MILLER
P.O. BOX 756
KINSTON, NC 28502

REVIEWED BY:

CLIENT ID: 6009 A

ANALYST: CHS
DATE COLLECTED: 07/31/07
DATE EXTRACTED: 08/06/07
DATE ANALYZED: 08/15/07
DATE REPORTED: 08/27/07

SEMI-VOLATILE ORGANICS
EPA METHOD 8270C

PARAMETERS, ug/l	MDL	SWSL	Equipment Blank
97. Phorate	3.86	10.0	--- U
98. Pronamide	3.69	10.0	--- U
99. Safrole	4.12	10.0	--- U
100. 1,2,4,5-Tetrachlorobenzene	5.01	10.0	--- U
101. Thionazin	4.62	20.0	--- U
102. O-Toluidine	4.11	10.0	--- U
103. 1,3,5-Trinitrobenzene	3.98	10.0	--- U
104. 0,0,0-Triethyl Phosphorothioate	3.61	10.0	--- U
105. Hexachloroethane	1.49	10.0	--- U
106. Isodrin	3.11	20.0	--- 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
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CLIENT: LENOIR CO. LANDFILL (OLD)
COUNTY OF LENOIR
MR. TOM MILLER
P.O. BOX 756
KINSTON, NC 28502

CLIENT ID: 6009 A

ANALYST: MAO
DATE COLLECTED: 07/31/07
DATE ANALYZED: 08/08/07
DATE REPORTED: 08/27/07

REVIEWED BY:

LANDFILL APPENDIX II
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Equipment Blank	Trip Blank
1. Chloromethane	0.18	1.0	--- U	--- U
2. Vinyl Chloride	0.34	1.0	--- U	--- U
3. Bromomethane	0.26	10.0	--- U	--- U
4. Chloroethane	0.29	10.0	--- U	--- U
5. Trichlorofluoromethane	0.13	1.0	--- U	--- U
6. 1,1-Dichloroethene	0.14	5.0	--- U	--- U
7. Acetone	1.21	100.0	2.10 J	1.70 J
8. Iodomethane	0.12	10.0	--- U	--- U
9. Carbon Disulfide	0.14	100.0	--- U	--- U
10. Methylene Chloride	0.14	1.0	--- U	--- U
11. trans-1,2-Dichloroethene	0.13	5.0	--- U	--- U
12. 1,1-Dichloroethane	0.16	5.0	--- U	--- U
13. Vinyl Acetate	0.20	5.0	--- U	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	--- U	--- U
15. 2-Butanone	0.85	100.0	0.90 J	--- U
16. Bromochloromethane	0.11	3.0	--- U	--- U
17. Chloroform	0.13	5.0	--- U	--- U
18. 1,1,1-Trichloroethane	0.11	1.0	--- U	--- U
19. Carbon Tetrachloride	0.13	1.0	--- U	--- U
20. Benzene	0.16	1.0	--- U	--- U
21. 1,2-Dichloroethane	0.12	1.0	--- U	--- U
22. Trichloroethene	0.13	1.0	--- U	--- U
23. 1,2-Dichloropropane	0.17	1.0	--- U	--- U
24. Bromodichloromethane	0.13	1.0	--- U	--- U
25. Cis-1,3-Dichloropropene	0.17	1.0	--- U	--- U
26. 4-Methyl-2-Pentanone	0.68	100.0	--- U	--- U
27. Toluene	0.13	1.0	0.60 J	9.00
28. trans-1,3-Dichloropropene	0.14	1.0	--- U	--- U
29. 1,1,2-Trichloroethane	0.20	5.0	--- U	--- U
30. Tetrachloroethene	0.16	1.0	--- U	--- U
31. 2-Hexanone	1.00	50.0	--- U	--- U
32. Dibromochloromethane	0.14	1.0	--- U	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U	--- U
34. Chlorobenzene	0.13	3.0	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.14	5.0	--- U	--- U
36. Ethylbenzene	0.16	1.0	--- U	--- U
37. Xylenes	0.48	4.0	--- U	--- U
38. Dibromomethane	0.17	10.0	--- U	--- U
39. Styrene	0.16	1.0	--- U	--- U
40. Bromoform	0.11	3.0	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	1.0	--- U	--- U
42. 1,2,3-Trichloropropane	0.06	1.0	--- U	--- U
43. 1,4-Dichlorobenzene	0.21	1.0	--- U	--- U
44. 1,2-Dichlorobenzene	0.13	5.0	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.26	1.0	--- U	--- U
46. Acrylonitrile	1.49	200.0	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.0	--- U	--- U
48. Acrolein	5.46	50.0	--- 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 (OLD)
COUNTY OF LENOIR
MR. TOM MILLER
P.O. BOX 756
KINSTON, NC 28502

CLIENT ID: 6009 A

ANALYST: MAO
DATE COLLECTED: 07/31/07
DATE ANALYZED: 08/08/07
DATE REPORTED: 08/27/07

REVIEWED BY:

LANDFILL APPENDIX II
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Equipment Blank	Trip Blank
49. Allyl Chloride	0.17	10.0	--- U	--- U
50. Chloroprene	0.16	20.0	--- U	--- U
51. 1,3-Dichlorobenzene	0.13	5.0	--- U	--- U
52. Dichlorodifluoromethane	0.16	5.0	--- U	--- U
53. 1,3-Dichloropropane	0.12	1.0	--- U	--- U
54. 2,2-Dichloropropane	0.18	15.0	--- U	--- U
55. 1,1-Dichloropropene	0.13	5.0	--- U	--- U
56. Ethyl Methacrylate	0.14	10.0	--- U	--- U
57. Hexachlorobutadiene	0.22	10.0	--- U	--- U
58. Isobutyl Alcohol	5.23	100.0	--- U	--- U
59. Methacrylonitrile	1.64	100.0	--- U	--- U
60. Methyl Methacrylate	0.10	30.0	--- U	--- U
61. Naphthalene	0.13	10.0	--- U	--- U
62. Propionitrile	1.60	150.0	--- U	--- U
63. 1,2,4-Trichlorobenzene	0.11	10.0	--- U	--- U
64. Acetonitrile	5.96	50.0	22.50 J	11.70 J

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: 6009 A **Week:** 28

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

(252) 566-5408

DISINFECTION: ☐ CHLORINE ☐ UV ☐ NONE ☐ _____

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Cyanide	Metals	Sulfide	EPA 8270C	8270C Dup. 1	EPA 8081A	8260B App. II	8260 App. II 1	8151A Landfill
CHLORINE NEUTRALIZED AT COLLECTION														
pH CHECK (LAB)						7/12	L2	79				L2	L2	
CONTAINER TYPE, P/G						P	P	P	G	G	G	G	G	G
CHEMICAL PRESERVATION						D	B	F D	A	A	A	E	E	A
Equipment Blank 02	3/07				9	C	C	C	C	C	C	C	C	C
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
☐ X SOLID WASTE SECTION

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

SAMPLES COLLECTED BY: (Please Print) Hope Fox

SAMPLES RECEIVED IN LAB AT 1.0 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Hope 07/31/07		[signature]	7/31/07 12:30
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

Instructions for completing this form are on the reverse side.

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

FORM #5

№ 148945

Environment 1, Inc.
P.O. Box 7088, 114 Oakmont Dr.
Greenville, NC 27858

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

CHAIN OF CUSTODY RECORD

CLIENT: 6009 **Week: 28**

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

(252) 566-5408

DISINFECTION: ☐ CHLORINE ☐ UV ☐ NONE ☐ _____

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field pH	Alkalinity	Chloride	Cyanide	TDS	Sulfate	Metals	Sulfide	Conductivity	Temperature	Field Parameter	EPA 8260B	8260 Dup. 1	8260 Dup. 2	EPA 8270C	8270C Dup. 1
CHLORINE NEUTRALIZED AT COLLECTION																					
pH CHECK (LAB)									12			12	12				12	12	12		
CONTAINER TYPE, P/G						P	P	P	P	P	P	P	P	P	P		G	G	G	G	G
CHEMICAL PRESERVATION						A	A	A	D	A	A	B	F D	A	A		E	E	E	A	A
Well #1 ✓	07 31 07	1045		19	9	G	G	G		G	G	G		G	G	G	G	G	G		
Well #3	07 31 07	0840		22	13	G	G	G	G	G	G	G	G	G	G	G				G	G
Well #4 ✓	07 31 07	0850		22	8	G	G	G		G	G	G		G	G	G	G	G			
Well #6 ✓	07 31 07	1030		20	8	G	G	G		G	G	G		G	G	G	G	G			
Well #9 ✓	07 31 07	0825		20	8	G	G	G		G	G	G		G	G	G	G	G			
Well #11 ✓	07 31 07	0810		19	8	G	G	G		G	G	G		G	G	G	G	G			
Well #12 ✓	07 31 07	0820		20	8	G	G	G		G	G	G		G	G	G	G	G			
SW-1	07 31 07	0755		25	4	G						G		G	G		G	G			
SW-2	07 31 07	0850		25	4	G						G		G	G		G	G			

PARAMETERS

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

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

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY
Y N

SAMPLES COLLECTED BY: (Please Print) H Hoge Jr

SAMPLES RECEIVED IN LAB AT 1.2 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob H Hoge 07	31 07	Smitha Sailo	7/31/07 12:30
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

Instructions for completing this form are on the reverse side.

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

FORM #5

№ 148947

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: 6009 **Week: 28**

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

(252) 566-5408

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

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	EPA 8081A	8260B App. II	8260 App. II 1	8151A Landfill
CHLORINE NEUTRALIZED AT COLLECTION									
pH CHECK (LAB)							L2	L2	
CONTAINER TYPE, P/G						G	G	G	G
CHEMICAL PRESERVATION						A	E	E	A
Well #1					9				
Well #3	07 3 07	0840		22	13	G	G	G	G
Well #4					8				
Well #6					8				
Well #9					8				
Well #11					8				
Well #12					8				
SW-1					4				
SW-2					4				

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
- [X] SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY
Y N

SAMPLES COLLECTED BY: (Please Print)
H Pope / Fat

SAMPLES RECEIVED IN LAB AT 1.0 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob H Pope	07 3 07	Arnethe Ladd	7/31/07 12:30
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

Instructions for completing this form are on the reverse side.

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

FORM #5

№ 148946

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: 07/31/07
DATE REPORTED : 08/22/07

REVIEWED BY:

PARAMETERS	MDL	SWSL	SW-3	MW-13	MW-14	MW-15	MW-16	Analysis Date	Analyst	Method Code
PH (field measurement), Units			5.3	4.5	4.8	4.6	4.6	07/31/07	RJH	SM4500HB
Antimony, ug/l	0.05	6.0	0.2 J	--- U	--- U	--- U	--- U	08/03/07	CMF	EPA200.8
Arsenic, ug/l	0.47	10.0	19	--- U	--- U	0.6 J	--- U	08/03/07	CMF	EPA200.8
Barium, ug/l	0.04	100.0	346	105	17.1 J	39.0 J	9.4 J	08/03/07	CMF	EPA200.8
Beryllium, ug/l	0.08	1.0	1	0.3 J	--- U	--- U	--- U	08/03/07	CMF	EPA200.8
Cadmium, ug/l	0.06	1.0	3	0.2 J	--- U	--- U	0.2 J	08/03/07	CMF	EPA200.8
Cobalt, ug/l	0.41	10.0	3.0 J	2.2 J	--- U	0.9 J	--- U	08/03/07	CMF	EPA200.8
Copper, ug/l	0.20	10.0	14	1.2 J	--- U	0.4 J	--- U	08/03/07	CMF	EPA200.8
Total Chromium, ug/l	0.24	10.0	36	1.6 J	--- U	--- U	--- U	08/03/07	CMF	EPA200.8
Lead, ug/l	0.07	10.0	84	1.0 J	0.2 J	0.1 J	0.1 J	08/03/07	CMF	EPA200.8
Nickel, ug/l	0.66	50.0	10.2 J	3.7 J	--- U	--- U	--- U	08/03/07	CMF	EPA200.8
Selenium, ug/l	0.35	10.0	3.0 J	--- U	--- U	--- U	--- U	08/03/07	CMF	EPA200.8
Silver, ug/l	0.52	10.0	--- U	--- U	--- U	--- U	--- U	08/03/07	CMF	EPA200.8
Thallium, ug/l	0.07	5.0	0.3 J	--- U	--- U	--- U	--- U	08/03/07	CMF	EPA200.8
Vanadium, ug/l	0.42	25.0	86	3.4 J	--- U	--- U	--- U	08/03/07	CMF	EPA200.8
Zinc, ug/l	0.20	10.0	56	8.6 J	1.8 J	1.8 J	1.9 J	08/03/07	CMF	EPA200.8
Conductivity (at 25c), uMhos	1.0	1.0	146	116	41	170	38	07/31/07	RJH	SM2510B
Temperature, °C			23	19	20	22	23	07/31/07	RJH	SM2550B
Static Water Level, feet				24.59	11.55	6.61	6.89	07/31/07	RJH	
Well Depth, feet				31.59	23.56	18.26	24.11	07/31/07	RJH	

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

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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

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

ID#: 6053

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

DATE COLLECTED: 07/31/07
DATE REPORTED : 08/22/07

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW-17	MW-18	Piezometer #22	Leachate	Pizeometer #1-4	Analysis Date	Analyst	Method Code
PH (field measurement), Units			4.2	4.7		7.8		07/31/07	RJH	SM4500HB
BOD, mg/l	2.0	2.0				17		07/31/07	TRB	SM5210B
COD, mg/l	10.0	10.0				142		08/06/07	TRB	HACH8000
Total Suspended Residue, mg/l	1.0	1.0				18		07/31/07	MRJ	SM2540D
Ammonia Nitrogen, mg/l	0.04	0.04				25.60		08/02/07	SSR	EPA350.1
Total Kjeldahl Nitrogen, mg/l						41.36		08/02/07	TWA	EPA351.2
Nitrate Nitrogen, mg/l	0.03	10.0				0.64 J		08/01/07	SSR	EPA353.2
Total Phosphorus, mg/l	0.04	0.04				0.41		08/02/07	SSR	EPA365.4
Cyanide, ug/l	5.0	10.0				--- U		08/07/07	SEJ	SM4500 CN-
Sulfate, mg/l	5.0	250.0				--- U		08/02/07	TRB	SM4500-SO4
Antimony, ug/l	0.05	6.0	--- U	0.1 J				08/03/07	CMF	EPA200.8
Arsenic, ug/l	0.47	10.0	--- U	--- U		1.9 J		08/03/07	CMF	EPA200.8
Barium, ug/l	0.04	100.0	98.1 J	14.7 J				08/03/07	CMF	EPA200.8
Beryllium, ug/l	0.08	1.0	0.2 J	--- U				08/03/07	CMF	EPA200.8
Cadmium, ug/l	0.06	1.0	--- U	--- U		--- U		08/03/07	CMF	EPA200.8
Cobalt, ug/l	0.41	10.0	1.2 J	--- U				08/03/07	CMF	EPA200.8
Copper, ug/l	0.20	10.0	0.3 J	0.6 J		3.9 J		08/03/07	CMF	EPA200.8
Total Chromium, ug/l	0.24	10.0	0.7 J	0.3 J		0.7 J		08/03/07	CMF	EPA200.8
Lead, ug/l	0.07	10.0	2.3 J	0.4 J		0.1 J		08/03/07	CMF	EPA200.8
Mercury, ug/l	0.04	0.20				--- U		08/03/07	CMF	EPA200.8
Molybdenum, ug/l	0.26	10				--- U		08/03/07	CMF	EPA200.8
Nickel, ug/l	0.66	50.0	0.9 J	--- U		9.1 J		08/03/07	CMF	EPA200.8
Selenium, ug/l	0.35	10.0	--- U	--- U		1.5 J		08/03/07	CMF	EPA200.8
Silver, ug/l	0.52	10.0	--- U	--- U		--- U		08/03/07	CMF	EPA200.8
Thallium, ug/l	0.07	5.0	--- U	--- U				08/03/07	CMF	EPA200.8
Vanadium, ug/l	0.42	25.0	1.5 J	0.9 J				08/03/07	CMF	EPA200.8
Zinc, ug/l	0.20	10.0	3.2 J	2.7 J		4.8 J		08/03/07	CMF	EPA200.8
Conductivity (at 25c), uMhos	1.0	1.0	173	38				07/31/07	RJH	SM2510B
Temperature, °C			18	17				07/31/07	RJH	SM2550B
Static Water Level, feet			23.52	24.68	26.03		10.85	07/31/07	RJH	
Well Depth, feet			30.91	33.99				07/31/07	RJH	

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

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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

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

ID#: 6053

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

DATE COLLECTED: 07/31/07
DATE REPORTED : 08/22/07

REVIEWED BY:

PARAMETERS	MDL	SWSL	Piezometer #1-14	Piezometer #14	Piezometer #3A	Pizeometer #16	Piezometer #17	Analysis Date	Analyst	Method Code
Static Water Level, feet			5.68	23.28	14.62	17.15	10.56	07/31/07	RJH	

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

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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

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

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

CLIENT ID: 6053

ANALYST: MAO
DATE COLLECTED: 07/31/07
DATE REPORTED: 08/22/07

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	08/08/07 SW-3	08/08/07 MW-13	08/08/07 MW-14	08/08/07 MW-15	08/10/07 MW-16
Date Analyzed:			08/08/07	08/08/07	08/08/07	08/08/07	08/10/07
1. Chloromethane	0.18	1.0	0.20 J	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.34	1.0	--- U	--- U	--- 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	4.20 J	--- U	1.40 J	1.60 J	2.00 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	--- U	--- U	--- U	--- U
13. Vinyl Acetate	0.20	5.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	--- U	--- U	--- U	--- U	--- U
15. 2-Butanone	0.85	100.0	2.80 J	--- U	2.30 J	1.80 J	2.40 J
16. Bromochloromethane	0.11	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.13	5.0	--- U	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.11	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.13	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.12	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.13	1.0	--- U	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.17	1.0	--- U	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.17	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	0.68	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.13	1.0	0.20 J	--- 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	5.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.00	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.14	1.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.13	3.0	--- U	--- U	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.14	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
37. Xylenes	0.48	4.0	--- U	--- U	--- U	--- U	--- U
38. Dibromomethane	0.17	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.11	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	1.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.06	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.21	1.0	--- U	--- U	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.13	5.0	--- U	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.26	1.0	--- U	--- U	--- U	--- U	--- U
46. Acrylonitrile	1.49	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.0	--- U	--- U	--- U	--- U	--- U

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

Environment 1, 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: 07/31/07
DATE REPORTED: 08/22/07

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	Date Analyzed: MDL	SWSL	08/10/07 MW-17	08/10/07 MW-18	08/10/07 Leachate
1. Chloromethane	0.18	1.0	--- U	--- U	--- U
2. Vinyl Chloride	0.34	1.0	--- U	--- U	--- U
3. Bromomethane	0.26	10.0	--- U	--- U	--- U
4. Chloroethane	0.29	10.0	--- U	--- U	--- U
5. Trichlorofluoromethane	0.13	1.0	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.14	5.0	--- U	--- U	--- U
7. Acetone	1.21	100.0	1.50 J	1.50 J	5.40 J
8. Iodomethane	0.12	10.0	--- U	--- U	--- U
9. Carbon Disulfide	0.14	100.0	--- U	--- U	--- U
10. Methylene Chloride	0.14	1.0	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.13	5.0	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.16	5.0	--- U	--- U	--- U
13. Vinyl Acetate	0.20	5.0	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	--- U	--- U	--- U
15. 2-Butanone	0.85	100.0	2.30 J	2.20 J	0.90 J
16. Bromochloromethane	0.11	3.0	--- U	--- U	--- U
17. Chloroform	0.13	5.0	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.11	1.0	--- U	--- U	--- U
19. Carbon Tetrachloride	0.13	1.0	--- U	--- U	--- U
20. Benzene	0.16	1.0	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.12	1.0	--- U	--- U	0.20 J
22. Trichloroethene	0.13	1.0	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.17	1.0	--- U	--- U	--- U
24. Bromodichloromethane	0.13	1.0	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.17	1.0	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	0.68	100.0	--- U	--- U	--- U
27. Toluene	0.13	1.0	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.14	1.0	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.20	5.0	--- U	--- U	--- U
30. Tetrachloroethene	0.16	1.0	--- U	--- U	--- U
31. 2-Hexanone	1.00	50.0	--- U	--- U	--- U
32. Dibromochloromethane	0.14	1.0	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U	--- U	--- U
34. Chlorobenzene	0.13	3.0	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.14	5.0	--- U	--- U	--- U
36. Ethylbenzene	0.16	1.0	--- U	--- U	--- U
37. Xylenes	0.48	4.0	--- U	--- U	0.80 J
38. Dibromomethane	0.17	10.0	--- U	--- U	--- U
39. Styrene	0.16	1.0	--- U	--- U	--- U
40. Bromoform	0.11	3.0	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	1.0	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.06	1.0	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.21	1.0	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.13	5.0	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.26	1.0	--- U	--- U	--- U
46. Acrylonitrile	1.49	200.0	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.0	--- U	--- U	--- U

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

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

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

CHAIN OF CUSTODY RECORD

CLIENT: 6053 **Week: 28**

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

(252) 566-5408

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	TSR	Ammonia Nitro.	TKN	Nitrate	PO4	Cyanide	Sulfate	Metals	Conductivity	Temperature	Field Parameter	EPA 625	625 Duplicate 1
								L2		L2	L2		L2	12		L2						
							P	P	P	P	P	P	P	P	P	P	P	P	P		G	G
							A	A	C	A	C	C	A	C	D	A	B	A	A		A	A
SW-3	07	3/07	0905		23	4	G										G	G	G			
MW-13	07	3/07	1010		19	5	G										G	G	G	G		
MW-14	07	3/07	0910		20	4	G										G	G	G	G		
MW-15	07	3/07	0915		22	4	G										G	G	G	G		
MW-16	07	3/07	0925		23	4	G										G	G	G	G		
MW-17	07	3/07	0935		18	4	G										G	G	G	G		
MW-18	07	3/07	0945		17	4	G										G	G	G	G		
Piezometer #22	07	3/07				1														G		
Leachate	07	3/07	0955		26	16	G	G	G	G	G	G	G	G	G	G	G				G	G
Pizeometer #1-4	07	3/07				1														G		
Piezometer #1-14	07	3/07				1														G		

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
- ☒ SOLID WASTE SECTION

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

SAMPLES COLLECTED BY: (Please Print) Nigel Fox

SAMPLES RECEIVED IN LAB AT 1.0 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob Nigel 07	3/07	Martha Ladd	7/31/07 12:30
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

Instructions for completing this form are on the reverse side.

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

FORM #5

№ 148942

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: 28**

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

(252) 566-5408

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	TSR	Ammonia Nitro.	TKN	Nitrate	PO4	Cyanide	Sulfate	Metals	Conductivity	Temperature	Field Parameter	EPA 625	625 Duplicate 1
CHLORINE NEUTRALIZED AT COLLECTION																					
pH CHECK (LAB)																					
CONTAINER TYPE, P/G						P	P	P	P	P	P	P	P	P	P	P	P	P		G	G
CHEMICAL PRESERVATION						A	A	C	A	C	C	A	C	D	A	B	A	A		A	A
Piezometer #14	07 3107				1														G		
Piezometer #3A	07 3107				1														G		
Pizeometer #16	07 3107				1														G		
Piezometer #17	07 3107				1														G		

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
- [X] SOLID WASTE SECTION

CHAIN OF CUSTODY *MAINTAINED* DURING SHIPMENT/DELIVERY
Y N

SAMPLES COLLECTED BY: (Please Print)
R Page / EI

SAMPLES RECEIVED IN LAB AT 1.0 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob H Page	07 3107	Arthur [illegible]	7/31/07 12:30
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

Instructions for completing this form are on the reverse side.

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

FORM #5

№ 148941

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: 28**

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

(252) 566-5408

DISINFECTION: ☐ CHLORINE ☐ UV ☐ NONE ☐ _____

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	625 Duplicate 2	EPA 8260B	8260 Dup. 1	8260 Dup. 2
pH CHECK (LAB)							<2	<2	<2
CONTAINER TYPE, P/G						G	G	G	G
CHEMICAL PRESERVATION						A	E	E	E
SW-3	07 31 07	0905		25	4		C	C	
MW-13	07 31 07	1010		19	5		C	C	C
MW-14	07 31 07	0910		20	4		C	C	
MW-15	07 31 07	0915		22	4		C	C	
MW-16	07 31 07	0925		23	4		C	C	
MW-17	07 31 07	0935		18	4		C	C	
MW-18	07 31 07	0945		17	4		C	C	
Piezometer #22					1				
Leachate	07 31 07	0955		26	16	C	C	C	C
Pizeometer #1-4					1				
Piezometer #1-14					1				

PARAMETERS

CHLORINE NEUTRALIZED AT COLLECTION

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
- ☒ SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY: Y N

SAMPLES COLLECTED BY: (Please Print) Hagel/Fox

SAMPLES RECEIVED IN LAB AT 1.0 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob Hagel	07 31 07	Arthur Ladd	7/31/07 12:30
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

Instructions for completing this form are on the reverse side.

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

FORM #5

№ 148940

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: 28**

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

(252) 566-5408

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

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	625 Duplicate 2	EPA 8260B	8260 Dup. 1	8260 Dup. 2
						G	G	G	G
						A	E	E	E
Piezometer #14					1				
Piezometer #3A					1				
Pizeometer #16					1				
Piezometer #17					1				

PARAMETERS

CHLORINE NEUTRALIZED AT COLLECTION

pH CHECK (LAB)

CONTAINER TYPE, P/G

CHEMICAL PRESERVATION

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

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

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY
Y N

SAMPLES COLLECTED BY:
(Please Print)
Bob Pope

SAMPLES RECEIVED IN LAB AT 1.0 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob Pope	07/31/07	Anthony Lodge	7/31/07 12:30
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

Instructions for completing this form are on the reverse side.

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

FORM #5

№ 148939