License No. C-0281

CIVIL/SANITARY/ENVIRONMENTAL ENGINEERS

SOLID WASTE MANAGEMENT

Municipal Services Engineering Company, P.A.

SITE PLANNING/SUBDIVISIONS

SUBSURFACE UTILITY ENGINEERING (SUE)

October 16, 2012

Ms. Christine Ritter, Hydrogeologist
Solid Waste Section
NC DENR Division of Waste Management
1646 Mail Service Center
Raleigh, NC 27699-1646

Re: Corrective Action Evaluation Report
Greene County Permit #40-02

Dear Ms. Ritter:

Provided for your review is the 2012 *Corrective Action Evaluation Report* for the Greene County C&D Landfill over Closed Unlined Landfill (Permit 40-02). Please contact me with any questions or comments at mdurway@mesco.com or (919) 772-5393. Thank you.

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

D. Mark Durway

NORTH CAROLINA LICENSED SEAL 0875 GEOLOGIST D. MARK DURWAY

D. Mark Durway, LG
Geologist

cc: David Jones – Greene County

PO Box 97, Garner, North Carolina 27529 (919) 772-5393

PO Box 349, Boone, NC 28607 (828) 262-1767

Corrective Action Evaluation Report

Prepared for

Greene County C&D Over Closed Unlined Landfill

105 Landfill Road (SR 1239)
Walstonburg, North Carolina
Permit No. 40-02

Prepared by

Municipal Engineering Services Company, P.A.
P.O. Box 97
Garner, North Carolina

MESCO Project Number: G11126.0

Prepared on

October 16, 2012

D. Mark Durway, L.G.

Jonathan Pfohl

NORTH CAROLINA LICENSED SEAL 0875 GEOLOGIST D. MARK DURWAY LICENSE NUMBER: C-0281

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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)
Greene County Active C&D and Closed MSWLF	105 Landfill Road Walstonburg, NC 27888	40-02	.1600	Sept 27, 2010 - March 19, 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) MNA Paramaters MW-1R & MW-4
☐ 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 10/16/12

Signature Date

Affix NC Licensed/ Professional Geologist Seal

NORTH CAROLINA PROFESSIONAL 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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1 INTRODUCTION

1.1 Purpose

The purpose of the *Corrective Action Evaluation Report* (*CAER*) is to demonstrate that potential impacts to groundwater and surface water from the Greene County C&D Landfill are being controlled and actively monitored through a program of monitored natural attenuation (MNA). MNA went into effect at the landfill following submittal of the Greene County C&D Landfill *Corrective Action Plan (CAP)* in 2009 and approval by NC DENR in 2010.

Evidence that MNA is working successfully is provided in this report, and it is recommended that the current MNA program be continued for an additional five-year period, followed by site re-evaluation and submittal of a subsequent *CAER* in 2017. Meanwhile, it is recommended that semi-annual monitoring and reporting be continued on the current state-approved schedule.

1.2 Site Background

The Greene County Construction and Demolition Waste (C&D) Landfill is located between Walstonburg and Snow Hill along Fire Tower Rd (SR 1239). The facility's physical address is 105 Landfill Road (SR 1257), Walstonburg, North Carolina 27888. Prior to opening the C&D Landfill in the 1990s, the site served as an unlined sanitary landfill before being closed and capped in accordance with state requirements. Greene County C&D landfill operates under NC DENR Permit 40-02 in accordance with Solid Waste Section Guidelines, and is monitored under the groundwater monitoring requirements set forth in 15A NCAC 13B.1630. Site topography and location are shown in **Figure 1** and site layout showing groundwater and surface water sampling locations is shown in **Figures 2A and 2B**.

1.3 Aquifer Characteristics

Greene County C&D Landfill is located in the North Carolina Coastal Plain at an elevation of approximately 135 ft above sea level. Topographic relief is accentuated by the shape of the landfill and is approximated to be about 30 ft between the top of the landfill and the water-filled ditch which runs along the northeast side of the property. The direction of surface water runoff and groundwater flow is generally to the east toward a tributary to Sandy Run, located approximately 3700 ft from the landfill. The waters of Sandy Run flow southeasterly into Little Contentnea Creek and eventually discharge into the Neuse River.

Based on the 1985 Geologic Map of North Carolina, the site is underlain by the Yorktown Formation described as "fossiliferous clay with varying amounts of fine-grained sand and bluish shell material which is commonly concentrated in lenses." As shown on the well logs provided in Appendix A, shallow geology consists of interbedded sandy and silty clay to a depth of 30 ft or more. These sediments, which form the surficial unconfined aquifer, were reported to vary in color from red to orange to brown to gray, with frequent mottling, and to be saturated at depths from 5 to 20 ft below land surface (bls). Historical groundwater elevations are provided in **Table 1** and a potentiometric surface map from the March 2012 sampling event is provided in **Figure 3**.

Currently, five shallow monitoring wells are utilized at the site (MW1R, 4, 5, 6, 7, and 8). Testing of these has determined aquifer characteristics to be as follows: Hydraulic conductivity of the surficial aquifer averages 3.16×10^{-4} cm/sec at the site, or about 0.9 ft/d, and effective porosity varies but is generally around 15%, based on testing and published values. During the 3/19/12 monitoring event, water levels ranged from approximately 5 to 15 ft below top of casing, and hydraulic gradient averaged 0.027 ft/ft, or just under 3 percent. Well logs are provided in **Appendix A**.

Water supply for the site and vicinity is provided by the South Greene Water Corporation which relies on 9 wells located throughout Greene County. Based on a receptor survey conducted on September 21, 2012, no wells, surface water intakes, springs or other sources of potable water were identified within 2000 ft of Greene County C&D Landfill. Receptor information for the site and surrounding area is provided in **Appendix B**.

1.4 Contaminant Distribution

Groundwater and surface water samples have been collected and analyzed for organic contaminants and total metals since at least 1994. Exceedances of the 15A NCAC 2L and 2B standards from 1994 through March 2012 are summarized below.

Organic compounds in groundwater have consisted of one or more detections of benzene, chloroethane, 1,4-dichlorobenzene, cis-1,2-dichloroethene, ethylbenzene, toluene, and vinyl chloride. With the exception of three vinyl chloride detections in MW5 in 2008, 2009, and 2010, all detections of organic contaminants have been limited to one well, MW4. MW4 is located at the northeastern corner of the landfill approximately 50 ft east of the edge-of-waste and 200 ft upgradient of the landfill compliance boundary. During the March 2012 sampling event, the only organic contaminants to exceed 2L groundwater standards were vinyl chloride (7.6 ug/l) and benzene (3.2 ug/l) in MW4.

Organic compounds in surface water have been limited to one detection each of toluene and styrene in 2005 and 2008, respectively. These compounds were detected in the downstream sample location at below 2B standards.

Total metals detected in groundwater have consisted of one or more detections of antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, iron, lead, manganese, mercury, nickel, vanadium, and zinc. Of these, chromium, iron, and lead have repeatedly exceeded 2L standards in multiple monitoring wells, although during the March 2012 sampling event, the only metal to exceed the 2L groundwater standard was iron (72,975 ug/l) in MW4. Barium, cadmium, manganese, vanadium, and zinc have periodically exceeded 2L standards. Beryllium and cobalt, for which there are no 2L standards, have been detected above the Solid Waste Section Limits (SWSLs). Antimony and mercury were detected one time each at levels below 2L standards. As these detections were made using analytical methods for total rather than dissolved metals, these metals detections are not being reported as 2L violations.

Based on the August 2007 *Assessment of Corrective Measures* (*ACM*), "The presence of metals occurring in the background samples, surface water samples, soil samples, and NURE sediment samples indicate that Antimony, Barium, Beryllium, Cadmium, Chromium, Lead, Manganese, Nickel, Thallium, Vanadium and Zinc are falsely reported, or naturally occurring and don't represent contamination associated with the landfill. Cobalt, which has not been detected in background sampling, surface water sample, soil samples or NURE sediment samples, has only been detected three times in different monitoring wells during different sampling events. Cobalt is not a statistically significant constituent and has not been detected above 2L levels. The above results indicate that inorganics are <u>not</u> constituents of concern."

Total metals detected in surface water since 1994 have consisted of cadmium, chromium, lead, silver, vanadium, and zinc. Minimal 2B exceedances occurred in downstream samples in 2002 (zinc, 70 ug/l) and 2009 and 2010 (silver, 0.1 ug/l). The upstream and downstream sample locations are located offsite at a distance of over half a mile from the landfill.

Detections above current SWSLs dating from September 15, 1994 through March 19, 2012 are summarized in **Table 2** and MW4 analytical results from the past three years are summarized in **Table 3**. Contaminant distribution in groundwater during the March 19, 2012 sampling event is shown in **Figure 4** and a landfill cross-section is provided in **Figure 5**. Fluctuations in benzene and vinyl chloride in MW4 are shown in **Figure 6**. Lab reports from September 8, 2009 through March 19, 2012 are provided in **Appendix C**.

1.5 Description of Site Conceptual Model

Site conceptual and analytical models were presented by MESCO in the Greene County *ACM*. The models consisted of cross-sections and analytical simulations using the USGS MODFLOW groundwater model. Taking contaminant retardation into consideration, the *ACM* showed contaminant migration to be easterly toward Sandy Run at rates of 12.6 ft/year for vinyl chloride and 3.46 ft/yr for benzene. Based on these rates, the *ACM* predicted it would take 9.9 and 36.1 yrs, respectively, for these contaminants to migrate from MW4 to the landfill compliance boundary. Ideally, natural attenuation will continue to successfully remediate and control the migration of the plume.

1.6 Regulatory Status

The Greene County Landfill operates as a C&D landfill over a closed unlined MSWLF under NC DENR Permit #40-02. As previously indicated, MNA went into effect at the landfill following NC DENR approval of the Greene County C&D Landfill *CAP* in February 2010. Assessment and natural attenuation monitoring are currently performed on a semi-annual basis at the site under the groundwater monitoring requirements set forth in 15A NCAC 13B.

2 CORRECTIVE ACTION SUMMARY

2.1 Physical and Chemical Changes in Aquifer Conditions

With the exception of water table fluctuations, alkalinity, and related parameters, no physical or chemical changes to the aquifer have been observed since completion of the *CAP*.

2.2 Physical and Chemical Changes in Plume Characteristics

From **Tables 1 and 2**, it is evident that the physical and chemical characteristics of the plume fluctuate constantly, though often consistently. During the March 19, 2012 sampling event, as previously discussed in Section 1.3, analytical data indicate that there were two 2L exceedances in monitoring well MW4. Concentrations for each of the contaminants of concern have generally declined over the past three years, with the exception of vinyl chloride and benzene. Between September 2011 and March 2012, vinyl chloride increased from 5.3 to 7.6 ug/l and benzene increased from 3 to 3.2 ug/l. Monitoring well MW7, which is located downgradient of MW4, remains below 2L standards for all target constituents. The continued absence of VOC exceedances in downgradient well MW7 indicates that contaminants are attenuating within the landfill compliance boundary.

To further evaluate changes in plume characteristics, remediation by natural attenuation was simulated using the US EPA BIOCHLOR screening model. This modeling centered on the migration of cis-1,2-dichloroethene, vinyl chloride and ethene from the landfill edge-of-waste and was run using thirty- five and fifty-year simulation times. Given that the closed unlined portion of the landfill began receiving waste in 1982, these simulation times equate to where the plume is predicted to be five and twenty years from now (2017 and 2032). Model inputs included data for advection, dispersion, adsorption, plume dimensions, and the contaminant source. The model was then calibrated to the March 2012 analytical data for MW4 by adjusting the decay rate variables for cis-1,2-dichloroethene and vinyl chloride. BIOCHLOR input data and model printouts are provided in **Appendix D**. In summary, the model predicts no exceedances of 2L standards beyond the compliance boundary.

2.3 Refining the Site Conceptual Model

The conceptual model for the site is that groundwater contaminant levels are being remediated through natural attenuation prior to reaching the regulatory compliance boundary surrounding the landfill. Currently, impact to property beyond the edge-of-waste appears to be limited to the area between the landfill and MW4. No impact is known on the adjoining land. It is also noted here that the immediate downgradient property to the east of the landfill consists of undeveloped land owned by Greene County, and that no supply wells, springs, water intakes, or other receptors were identified within 2000 ft of the landfill, as previously indicated in Section 1.2.

2.4 Evaluation of Impacts

2.4.1 Impacts on Contaminant Levels

Monitoring well data support that contaminant levels in groundwater are decreasing with increasing distance downgradient from the landfill as a result of natural attenuation.

2.4.2 Impacts on Hydraulic Gradients

Groundwater levels fluctuate throughout the year due to seasonal increases and decreases in precipitation with water levels typically higher in Spring than in Fall. Groundwater flow direction at the site is easterly toward Sandy Run.

2.4.3 Contaminant Removal Efficiency

Monitored natural attenuation appears to be effectively degrading landfill contaminants based on monitoring results and BIOCHLOR modeling.

2.4.4 Total Mass of Contaminant Removed

Based on the BIOCHLOR Natural Attenuation Screening Protocol score, subsurface conditions at the landfill are adequate to support anaerobic biodegradation of chlorinated organics by reductive chlorination. As previously indicated, BIOCHLOR was run for cis-1,2-dichloroethene, vinyl chloride and ethene degradation from the easternmost landfill edge along the flow path through MW-4 and MW-7 using simulation times of 35 and 50 years. Model inputs included data for advection, dispersion, adsorption, plume dimensions and assumed contaminant source concentrations. Models indicate that cis-1,2-dichloroethene and it's common biodegredation byproduct vinyl chloride will not migrate beyond the eastern compliance boundary in concentrations above the 2L Standard for at least the next twenty years. As indicated in **Appendix D**, BIOCHLOR model results indicate that there is a balance between source loading and plume attenuation capacity at the landfill.

2.5 Status of Impacts at the Compliance Boundary

Water quality monitoring indicates that contaminant levels have been limited to minimal exceedances of state 2L groundwater standards in one well, MW4, which is located approximately 200 ft upgradient of the compliance boundary. Furthermore, contaminant levels in MW4 have generally declined or remained stable 2009. Wells downgradient of MW4 have shown no 2L organic contaminant exceedances, and BIOCHLOR modeling supports that subsurface conditions are suitable for contaminant attenuation within the 250 ft landfill compliance boundary.

2.6 Any Off-Site Migration of Contaminants of Concern

There has been no observed off-site migration of contaminants at this time. As previously noted, the immediate downgradient property to the east of the landfill consists of undeveloped land owned by Greene County.

3 CONCLUSION

3.1 Modifications Needed to Selected Remedy

Monitoring and modeling support that that contaminants are successfully attenuating prior to reaching the landfill compliance boundary. Therefore, modifications to the selected remedy, monitored natural attenuation, are not recommended at this time.

3.2 Supplemental Risk Assessment Needed

Risk assessment was performed as part of the *ACM*. In summary, the *ACM* indicated that direct contact exposure pathways are limited since the facility is gated and monitoring wells are cased and secured with locking well caps. Access to the site is limited during operational hours and the facility is locked after hours. It was also noted in the *ACM* that Greene County owns a significant buffer area downgradient to the east of the landfill, and that public water supply serves the surrounding area.

3.3 Need to Implement Contingency Plan

At this time contamination concentrations have generally declined or remained stable, and laboratory analysis indicates no new constituents to be emerging. Modeling reiterates the slow moving nature of the plume and how natural attenuation degrades the contaminants. Thus, based on monitoring and modeling, there is no apparent need to implement the alternative methods outlined in the Contingency Plan at this time. Should natural attenuation cease to effectively degrade and control the migration of the plume, the contingency plan will be implemented.

3.4 Imposition of Land Use Restrictions

As there has been no observed migration of groundwater contaminants onto property adjoining the landfill, there is no apparent need to impose land use restrictions at this time. Its is also reiterated that Greene County owns a significant buffer area downgradient to the east of the landfill.

3.5 Recommendations

Municipal Engineering recommends that monitored natural attenuation be continued and that a *CAER* be performed in five years to assess whether alternative compliance measures are warranted. Meanwhile, it is recommended that semi-annual monitoring and reporting be continued according to the current state-approved schedule.

REFERENCES

[1] Municipal Engineering Services Company, P.A. 1994. *Transition Plan: Greene County Landfill (40-02).*

[2] Municipal Engineering Services Company, P.A. 2007. *Assessment of Corrective Measures: Greene County Landfill (40-02).*

[3] Municipal Engineering Services Company, P.A. 2009. *Corrective Action Plan: Greene County Landfill (40-02).*

[4] Fetter, C.W., 1994, Applied Hydrogeology 3rd ed.: Prentice-Hall Inc., New Jersey, 691 pp.

[5] Jones, David. Greene County Public Works Director. September 21, 2012. Personal communication.

[6] NC Geological Survey. 1985. Geologic Map of North Carolina.

[7] Sohl, Norman F. and Owens , James P. 1991. *Cretaceous Stratigraphy of the Carolina Coastal Plain*. The Geology of the Carolinas. The University of Tennessee Press, pp 191-220.

[8] US EPA Office of Research and Development. January 2000. BIOCHLOR Groundwater Model and User's Manual Version 1.0. 46 p.

[9] US EPA Office of Research and Development. March 2002. BIOCHLOR User's Manual Version 2.2. 10 p.

[10] U.S. Geological Survey. 2004. National Uranium Resource Evaluation (NURE) Hydrogeochemical and Stream Sediment Reconnaissance data: U.S. Geological Survey, Denver, CO.

TABLES

Table 1: Historical Groundwater Elevation Data

WELL	9/15/1994	11/18/1994	1/12/1995	2/6/1995	9/12/1995	9/15/1995	4/19/1996	3/17/1997	3/3/1998	9/9/1998	3/25/1999
MW-1R	115.85	114.88	116.04	116.54	113.91	115.85	116.26	116.89	116.66	117.87	116.84
MW-4	97.91	97.05	96.75	97.50	98.06	97.91	103.46	105.43	105.52	101.36	104.66
MW-5	97.14	96.01	95.94	96.64	96.63	97.14	101.45	103.53	103.15	99.75	101.62
MW-6	108.33	106.53	109.09	110.83	104.32	108.33	111.62	112.61	113.42	111.09	112.85
MW-7	-	-	-	-	-	-	-	-	-	-	-
MW-8	-	-	-	-	-	-	-	-	-	-	-

WELL	10/5/1999	3/1/2000	9/21/2000	3/8/2001	9/27/2001	3/27/2002	9/19/2002	3/19/2003	9/11/2003	3/18/2004	9/30/2004
MW-1R	117.00	116.53	116.87	116.96	116.09	117.91	116.28	117.87	116.37	116.37	116.25
MW-4	105.27	105.31	99.85	101.25	98.22	98.85	96.45	103.65	103.35	104.30	99.19
MW-5	101.60	102.29	98.61	99.25	97.05	97.45	95.06	100.49	100.73	101.76	98.23
MW-6	112.51	112.66	111.21	112.95	108.86	112.49	108.01	113.62	110.44	112.56	110.84
MW-7	-	-	-	-	-	-	-	-	-	-	-
MW-8	-	-	-	-	-	-	-	-	-	-	-

WELL	3/29/2005	9/29/2005	3/3/2006	9/21/2006	3/19/2007	5/24/2007	6/22/2007	3/28/2008	9/29/2008	3/30/2009	9/8/2009
MW-1R	117.61	115.61	116.65	117.20	116.78	116.17	-	116.65	117.40	118.45	114.61
MW-4	104.09	91.73	104.32	104.62	104.56	102.11	-	100.98	96.94	104.80	97.26
MW-5	100.56	87.42	101.12	101.09	101.76	99.26	-	97.73	95.28	100.65	95.68
MW-6	113.37	107.16	113.01	111.85	112.74	112.10	-	111.99	108.01	113.61	105.09
MW-7	-	-	-	-	-	-	98.60	97.46	94.83	99.92	95.18
MW-8	-	-	-	-	-	-	101.26	101.59	97.53	104.62	97.69

WELL	3/30/2010	9/27/2010	3/21/2011	9/28/2011	3/19/2012	Observed High	Observed Low	Difference	Average
MW-1R	118.77	113.37	117.03	116.78	116.76	118.77	113.37	5.40	116.54
MW-4	105.91	96.45	99.46	101.29	104.36	105.91	91.73	14.18	101.09
MW-5	101.34	94.76	96.65	97.73	100.29	103.53	87.42	16.11	98.73
MW-6	108.35	103.33	111.08	108.63	111.65	113.62	103.33	10.29	110.46
MW-7	100.76	94.29	96.19	97.6	100.16	100.76	94.29	6.47	97.50
MW-8	105.20	96.86	99.68	101.86	104.95	105.20	96.86	8.34	101.12

Table 2
Historical Analytical Data
September 15, 1994 through March 19, 2012

Sample ID	Parameter Name [1]	Sample Date	Result	Unit	MDL or PQL [2]	SWSL [3]	2L [4]	2B [5]	GWP [6]
MW-1R	Antimony, total	9/15/97	30	ug/l	30	6	NE		
MW-1R	Barium, total	3/19/07	152	ug/l	100	100	700		
MW-1R	Barium, total	5/24/07	172	ug/l	0.2	100	700		
MW-1R	Barium, total	9/13/07	108	ug/l	0.04	100	700		
MW-1R	Barium, total	3/28/08	171	ug/l	0.11	100	700		
MW-1R	Barium, total	9/29/08	124	ug/l	0.34	100	700		
MW-1R	Barium, total	3/30/09	327	ug/l	0.04	100	700		
MW-1R	Barium, total	9/8/09	138	ug/l	0.04	100	700		
MW-1R	Barium, total	9/27/10	114	ug/l	0.03	100	700		
MW-1R	Barium, total	3/21/11	252	ug/l	0.02	100	700		
MW-1R	Barium, total	9/28/11	178	ug/l	0.02	100	700		
MW-1R	Barium, total	3/19/12	120	ug/l	0.02	100	700		
MW-1R	Cadmium, total	3/25/99	1	ug/l	1	1	1.75		
MW-1R	**Chromium, total**	**9/15/94**	**26**	**ug/l**	**10**	**10**	**10**		
MW-1R	**Chromium, total**	**11/18/94**	**40**	**ug/l**	**10**	**10**	**10**		
MW-1R	Chromium, total	2/6/95	10	ug/l	10	10	10		
MW-1R	**Chromium, total**	**9/12/95**	**16**	**ug/l**	**10**	**10**	**10**		
MW-1R	**Chromium, total**	**3/17/97**	**11**	**ug/l**	**10**	**10**	**10**		
MW-1R	**Chromium, total**	**3/3/98**	**39**	**ug/l**	**10**	**10**	**10**		
MW-1R	**Chromium, total**	**9/9/98**	**22**	**ug/l**	**10**	10	**10**		
MW-1R	**Chromium, total**	**3/25/99**	**17**	**ug/l**	**10**	**10**	**10**		
MW-1R	**Chromium, total**	**10/5/99**	**36**	**ug/l**	**10**	10	**10**		
MW-1R	**Chromium, total**	**3/1/00**	**39**	**ug/l**	**10**	**10**	**10**		
MW-1R	**Chromium, total**	**9/21/00**	**34**	**ug/l**	**10**	**10**	**10**		
MW-1R	**Chromium, total**	**3/27/02**	**16**	**ug/l**	**10**	**10**	**10**		
MW-1R	**Chromium, total**	**9/19/02**	**33**	**ug/l**	**10**	**10**	**10**		
MW-1R	Cobalt, total	9/11/03	11	ug/l	10	10	NE		70
MW-1R	**Iron, total**	**9/29/08**	**502**	**ug/l**	**14**	**300**	**300**		
MW-1R	**Iron, total**	**3/30/09**	**506**	**ug/l**	**14**	**300**	**300**		
MW-1R	**Iron, total**	**3/21/11**	**315**	**ug/l**	**15.9**	**300**	**300**		
MW-1R	**Iron, total**	**9/28/11**	**7635**	**ug/l**	**15.9**	**300**	**300**		
MW-1R	**Iron, total**	**3/19/12**	**499**	**ug/l**	**15.9**	**300**	**300**		
MW-1R	**Iron, total**	**3/30/10**	**65775**	**ug/l**	**13.8**	**300**	**300**		
MW-1R	**Iron, total**	**9/27/10**	**708**	**ug/l**	**13.8**	**300**	**300**		
MW-1R	Lead, total	9/15/94	15	ug/l	10	10	15		
MW-1R	**Lead, total**	**11/18/94**	**32**	**ug/l**	**10**	**10**	**15**		
MW-1R	**Lead, total**	**3/3/98**	**26**	**ug/l**	**10**	**10**	**15**		
MW-1R	Lead, total	9/9/98	15	ug/l	10	10	15		
MW-1R	Lead, total	10/5/99	11	ug/l	10	**10**	15		
MW-1R	Lead, total	3/27/02	13	ug/l	10	10	15		
MW-1R	Lead, total	9/19/02	12	ug/l	10	10	15		
MW-1R	Lead, total	9/29/05	14	ug/l	10	10	15		
MW-1R	**Manganese, total**	**3/30/09**	**57**	**ug/l**	**0.5**	**50**	**50**		
MW-1R	Nickel, total	11/18/94	67	ug/l	50	50	100		

Sample ID	Parameter Name [1]	Sample Date	Result	Unit	MDL or PQL [2]	SWSL [3]	2L [4]	2B [5]	GWP [6]
MW-1R	Vanadium, total	3/3/98	57	ug/l	40	25	NE		3.5
MW-1R	Vanadium, total	9/9/98	69	ug/l	40	25	NE		3.5
MW-1R	Vanadium, total	10/5/99	47	ug/l	40	25	NE		3.5
MW-1R	Vanadium, total	3/1/00	55	ug/l	40	25	NE		3.5
MW-1R	Vanadium, total	9/19/02	43	ug/l	40	25	NE		3.5
MW-1R	Vanadium, total	9/28/11	6.5 j	ug/l	0.14	25	NE		3.5
MW-1R	Zinc, total	9/15/94	53	ug/l	50	10	1050		
MW-1R	Zinc, total	11/18/94	103	ug/l	50	10	1050		
MW-1R	Zinc, total	3/3/98	67	ug/l	50	10	1050		
MW-1R	Zinc, total	5/24/07	23	ug/l	1	10	1050		
MW-1R	Zinc, total	9/28/11	17	ug/l	0.24	10	1050		
MW-4	1,4-Dichlorobenzene	3/19/07	3.4	ug/l	3	1	6		
MW-4	1,4-Dichlorobenzene	5/24/07	2.4	ug/l	0.15	1	6		
MW-4	1,4-Dichlorobenzene	9/13/07	2.9	ug/l	0.21	1	6		
MW-4	1,4-Dichlorobenzene	3/28/08	3.9	ug/l	0.21	**1**	6		
MW-4	1,4-Dichlorobenzene	9/29/08	5.9	ug/l	0.21	1	6		
MW-4	**1,4-Dichlorobenzene**	**3/30/09**	**7.2**	**ug/l**	**0.21**	1	**6**		
MW-4	1,4-Dichlorobenzene	9/8/09	4.5	ug/l	0.21	1	6		
MW-4	1,4-Dichlorobenzene	3/30/10	5.3	ug/l	0.39	1	6		
MW-4	1,4-Dichlorobenzene	9/27/10	3	ug/l	0.39	1	6		
MW-4	1,4-Dichlorobenzene	3/21/11	2.9	ug/l	0.39	1	6		
MW-4	1,4-Dichlorobenzene	9/28/11	3.8	ug/l	0.39	1	6		
MW-4	1,4-Dichlorobenzene	3/19/12	3.3	ug/l	0.39	1	6		
MW-4	Acetone	9/29/08	103	ug/l	1.21	100	6000		
MW-4	**Arsenic, total**	**9/27/10**	**16**	**ug/l**	**0.04**	**10**	**10**		
MW-4	**Barium, total**	**4/19/96**	**896**	**ug/l**	**500**	**100**	**700**		
MW-4	Barium, total	3/17/97	588	ug/l	500	100	700		
MW-4	Barium, total	9/19/02	678	ug/l	500	100	700		
MW-4	Barium, total	3/30/10	193	ug/l	0.03	100	700		
MW-4	**Barium, total**	**9/27/10**	**803**	**ug/l**	**0.03**	**100**	**700**		
MW-4	**Benzene**	**3/19/07**	**3.9**	**ug/l**	**3**	**1**	**1**		
MW-4	Benzene	9/13/07	1	ug/l	0.16	1	1		
MW-4	**Benzene**	**3/28/08**	**2.2**	**ug/l**	**0.16**	**1**	**1**		
MW-4	**Benzene**	**9/29/08**	**3.4**	**ug/l**	**0.16**	**1**	**1**		
MW-4	**Benzene**	**3/30/09**	**5.8**	**ug/l**	**0.16**	1	**1**		
MW-4	**Benzene**	**9/8/09**	**3.5**	**ug/l**	**0.16**	**1**	**1**		
MW-4	**Benzene**	**3/30/10**	**5.3**	**ug/l**	**0.24**	**1**	**1**		
MW-4	**Benzene**	**9/27/10**	**2.5**	**ug/l**	**0.24**	**1**	**1**		
MW-4	**Benzene**	**3/21/11**	**3**	**ug/l**	**0.24**	**1**	**1**		
MW-4	**Benzene**	**9/28/11**	**3**	**ug/l**	**0.24**	**1**	**1**		
MW-4	**Benzene**	**3/19/12**	**3.2**	**ug/l**	**0.24**	**1**	**1**		
MW-4	Beryllium, total	3/17/97	9	ug/l	2	1	NE		4
MW-4	Beryllium, total	3/3/98	7.7	ug/l	2	1	NE		4
MW-4	Beryllium, total	9/9/98	3.2	ug/l	2	1	NE		4
MW-4	Beryllium, total	10/5/99	3	ug/l	2	1	NE		4
MW-4	Beryllium, total	9/19/02	5	ug/l	2	1	NE		4
MW-4	Beryllium, total	3/29/05	4	ug/l	2	1	NE		4
MW-4	Beryllium, total	9/27/10	8	ug/l	0.02	1	NE		4

Sample ID	Parameter Name [1]	Sample Date	Result	Unit	MDL or PQL [2]	SWSL [3]	2L [4]	2B [5]	GWP [6]
MW-4	Cadmium, total	3/25/99	1	ug/l	1	1	1.75		
MW-4	Cadmium, total	3/29/05	1	ug/l	1	1	1.75		
MW-4	**Cadmium, total**	**9/27/10**	**3**	**ug/l**	**0.02**	**1**	**1.75**		
MW-4	Chloroethane	9/21/06	20.1	ug/l	10	10	2800		
MW-4	Chloroethane	3/19/07	12.5	ug/l	5	10	2800		
MW-4	Chloroethane	9/29/08	11.3	ug/l	0.29	10	2800		
MW-4	Chloroethane	3/30/09	18.3	ug/l	0.29	10	2800		
MW-4	Chloroethane	3/30/10	18.6	ug/l	0.48	10	2800		
MW-4	**Chromium, total**	**11/18/94**	**15**	**ug/l**	**10**	**10**	**10**		
MW-4	**Chromium, total**	**4/19/96**	**27**	**ug/l**	**10**	**10**	**10**		
MW-4	**Chromium, total**	**3/17/97**	**19**	**ug/l**	**10**	**10**	**10**		
MW-4	**Chromium, total**	**3/3/98**	**28**	**ug/l**	**10**	**10**	**10**		
MW-4	**Chromium, total**	**9/9/98**	**11**	**ug/l**	**10**	**10**	**10**		
MW-4	**Chromium, total**	**3/25/99**	**11**	**ug/l**	**10**	**10**	**10**		
MW-4	**Chromium, total**	**10/5/99**	**57**	**ug/l**	**10**	**10**	**10**		
MW-4	**Chromium, total**	**3/8/01**	**13**	**ug/l**	**10**	**10**	**10**		
MW-4	**Chromium, total**	**9/27/01**	**52**	**ug/l**	**10**	**10**	**10**		
MW-4	**Chromium, total**	**3/27/02**	**28**	**ug/l**	**10**	**10**	**10**		
MW-4	**Chromium, total**	**9/19/02**	**136**	**ug/l**	**10**	**10**	**10**		
MW-4	**Chromium, total**	**3/19/03**	**28**	**ug/l**	**10**	**10**	**10**		
MW-4	**Chromium, total**	**9/11/03**	**21**	**ug/l**	**10**	**10**	**10**		
MW-4	**Chromium, total**	**3/18/04**	**22**	**ug/l**	**10**	**10**	**10**		
MW-4	**Chromium, total**	**9/27/10**	**28**	**ug/l**	**0.03**	**10**	**10**		
MW-4	Cis-1,2-Dichloroethene	3/30/09	14	ug/l	0.14	5	70		
MW-4	Cis-1,2-Dichloroethene	9/8/09	9.1	ug/l	0.14	5	70		
MW-4	Cis-1,2-Dichloroethene	3/30/10	13.7	ug/l	0.25	5	70		
MW-4	Cis-1,2-Dichloroethene	9/27/10	6.8	ug/l	0.25	5	70		
MW-4	Cis-1,2-Dichloroethene	3/21/11	6.2	ug/l	0.25	5	70		
MW-4	Cis-1,2-Dichloroethene	9/28/11	7	ug/l	0.25	5	70		
MW-4	cis-1,2-Dichloroethylene	3/29/05	9.4	ug/l	5	5	70		
MW-4	cis-1,2-Dichloroethylene	3/3/06	10.8	ug/l	5	5	70		
MW-4	cis-1,2-Dichloroethylene	9/21/06	14.3	ug/l	5	5	70		
MW-4	cis-1,2-Dichloroethylene	5/24/07	10	ug/l	0.14	5	70		
MW-4	cis-1,2-Dichloroethylene	9/13/07	9	ug/l	0.14	5	70		
MW-4	cis-1,2-Dichloroethylene	3/28/08	10.2	ug/l	0.14	5	70		
MW-4	cis-1,2-Dichloroethylene	9/29/08	11.6	ug/l	0.14	5	70		
MW-4	Cobalt, total	9/19/02	12	ug/l	10	10	NE		70
MW-4	Ethylbenzene	3/30/09	3.2	ug/l	0.16	1	550		
MW-4	Ethylbenzene	3/30/10	4.1	ug/l	0.21	1	550		
MW-4	**Iron, total**	**3/19/07**	**29050**	**ug/l**	**50**	**300**	**300**		
MW-4	**Iron, total**	**3/30/10**	**495**	**ug/l**	**13.8**	**300**	**300**		
MW-4	**Iron, total**	**9/27/10**	**133700**	**ug/l**	**14**	**300**	**300**		
MW-4	**Iron, total**	**9/13/07**	**28940**	**ug/l**	**12**	**300**	**300**		
MW-4	**Iron, total**	**3/28/08**	**27830**	**ug/l**	**14**	**300**	**300**		
MW-4	**Iron, total**	**9/29/08**	**21100**	**ug/l**	**14**	**300**	**300**		
MW-4	**Iron, total**	**3/30/09**	**84650**	**ug/l**	**14**	**300**	**300**		
MW-4	**Iron, total**	**9/8/09**	**60525**	**ug/l**	**14**	**300**	**300**		
MW-4	**Iron, total**	**3/21/11**	**56500**	**ug/l**	**15.9**	**300**	**300**		

Sample ID	Parameter Name [1]	Sample Date	Result	Unit	MDL or PQL [2]	SWSL [3]	2L [4]	2B [5]	GWP [6]
MW-4	**Iron, total**	**9/28/11**	**55025**	**ug/l**	**15.9**	**300**	**300**		
MW-4	**Iron, total**	**3/19/12**	**72975**	**ug/l**	**15.9**	**300**	**300**		
MW-4	**Lead, total**	**11/18/94**	**23**	**ug/l**	**10**	**10**	**15**		
MW-4	Lead, total	1/12/95	10	ug/l	10	10	15		
MW-4	**Lead, total**	**9/12/95**	**16**	**ug/l**	**10**	**10**	**15**		
MW-4	**Lead, total**	**4/19/96**	**149**	**ug/l**	**10**	**10**	**15**		
MW-4	**Lead, total**	**3/17/97**	**83**	**ug/l**	**10**	**10**	**15**		
MW-4	**Lead, total**	**9/15/97**	**25**	**ug/l**	**10**	**10**	**15**		
MW-4	**Lead, total**	**3/3/98**	**62**	**ug/l**	**10**	**10**	**15**		
MW-4	**Lead, total**	**9/9/98**	**21**	**ug/l**	**10**	**10**	**15**		
MW-4	Lead, total	3/25/99	12	ug/l	10	10	15		
MW-4	**Lead, total**	**10/5/99**	**49**	**ug/l**	**10**	**10**	**15**		
MW-4	**Lead, total**	**9/27/01**	**33**	**ug/l**	**10**	**10**	**15**		
MW-4	**Lead, total**	**3/27/02**	**27**	**ug/l**	**10**	**10**	**15**		
MW-4	**Lead, total**	**9/19/02**	**96**	**ug/l**	**10**	**10**	**15**		
MW-4	**Lead, total**	**3/19/03**	**32**	**ug/l**	**10**	**10**	**15**		
MW-4	**Lead, total**	**9/11/03**	**18**	**ug/l**	**10**	**10**	**15**		
MW-4	**Lead, total**	**3/18/04**	**30**	**ug/l**	**10**	10	**15**		
MW-4	Lead, total	9/30/04	12	ug/l	10	10	15		
MW-4	**Lead, total**	**3/29/05**	**48**	**ug/l**	**10**	**10**	**15**		
MW-4	**Lead, total**	**9/29/05**	**26**	**ug/l**	**10**	**10**	**15**		
MW-4	**Lead, total**	**9/27/10**	**121**	**ug/l**	**0.01**	**10**	**15**		
MW-4	**Manganese, total**	**3/19/07**	**105**	**ug/l**	**10**	**50**	**50**		
MW-4	**Manganese, total**	**9/13/07**	**156**	**ug/l**	**0.5**	**50**	**50**		
MW-4	**Manganese, total**	**3/28/08**	**137**	**ug/l**	**0.5**	**50**	**50**		
MW-4	**Manganese, total**	**9/29/08**	**171**	**ug/l**	**0.5**	**50**	**50**		
MW-4	**Manganese, total**	**3/30/09**	**167**	**ug/l**	**0.5**	**50**	**50**		
MW-4	**Manganese, total**	**9/8/09**	**269**	**ug/l**	**0.5**	**50**	**50**		
MW-4	Methylene Chloride	9/29/08	1.1	ug/l	0.14	1	4.6		
MW-4	Methylene Chloride	3/30/09	1.3	ug/l	0.14	1	4.6		
MW-4	Methylene Chloride	3/30/10	1	ug/l	0.64	1	4.6		
MW-4	Toluene	9/29/05	10.4	ug/l	5	1	600		
MW-4	Toluene	5/24/07	1.1	ug/l	0.15	1	600		
MW-4	Toluene	9/13/07	2.3	ug/l	0.13	1	600		
MW-4	Toluene	9/29/08	1.9	ug/l	0.13	1	600		
MW-4	Toluene	3/30/09	1.6	ug/l	0.13	1	600		
MW-4	Toluene	9/8/09	2.8	ug/l	0.13	1	600		
MW-4	Toluene	3/30/10	1	ug/l	0.23	1	600		
MW-4	Toluene	9/27/10	1	ug/l	0.23	1	600		
MW-4	Vanadium, total	3/3/98	79	ug/l	40	25	NE		3.5
MW-4	Vanadium, total	10/5/99	119	ug/l	40	25	NE		3.5
MW-4	Vanadium, total	9/27/01	92	ug/l	40	25	NE		3.5
MW-4	Vanadium, total	3/27/02	54	ug/l	40	25	NE		3.5
MW-4	Vanadium, total	9/19/02	239	ug/l	40	25	NE		3.5
MW-4	Vanadium, total	3/19/03	65	ug/l	40	25	NE		3.5
MW-4	Vanadium, total	3/30/09	4.3 j	ug/l	0.28	25	NE		3.5
MW-4	Vanadium, total	9/27/10	74	ug/l	0.03	25	NE		3.5
MW-4	Vanadium, total	3/21/11	4.8 j	ug/l	0.14	25	NE		3.5

Sample ID	Parameter Name [1]	Sample Date	Result	Unit	MDL or PQL [2]	SWSL [3]	2L [4]	2B [5]	GWP [6]
MW-4	**Vinyl Chloride**	**3/19/07**	**5.5**	**ug/l**	**5**	**1**	**0.03**		
MW-4	**Vinyl Chloride**	**5/24/07**	**2.6**	**ug/l**	**0.15**	**1**	**0.03**		
MW-4	**Vinyl Chloride**	**9/13/07**	**2.5**	**ug/l**	**0.34**	**1**	**0.03**		
MW-4	**Vinyl Chloride**	**3/28/08**	**4.7**	**ug/l**	**0.34**	**1**	**0.03**		
MW-4	**Vinyl Chloride**	**9/29/08**	**7**	**ug/l**	**0.34**	**1**	**0.03**		
MW-4	**Vinyl Chloride**	**3/30/09**	**10.2**	**ug/l**	**0.34**	**1**	**0.03**		
MW-4	**Vinyl Chloride**	**9/8/09**	**6**	**ug/l**	**0.34**	**1**	**0.03**		
MW-4	**Vinyl Chloride**	**3/30/10**	**10.3**	**ug/l**	**0.63**	**1**	**0.03**		
MW-4	**Vinyl Chloride**	**9/27/10**	**4.1**	**ug/l**	**0.63**	**1**	**0.03**		
MW-4	**Vinyl Chloride**	**3/21/11**	**5.4**	**ug/l**	**0.63**	**1**	**0.03**		
MW-4	**Vinyl Chloride**	**9/28/11**	**5.3**	**ug/l**	**0.63**	**1**	**0.03**		
MW-4	**Vinyl Chloride**	**3/19/12**	**7.6**	**ug/l**	**0.63**	**1**	**0.03**		
MW-4	Xylenes	3/30/09	1.8	ug/l	0.48	1	530		
MW-4	Xylenes	3/30/10	2.1	ug/l	0.68	1	530		
MW-4	Zinc, total	4/19/96	238	ug/l	50	10	1050		
MW-4	Zinc, total	3/17/97	79	ug/l	50	10	1050		
MW-4	Zinc, total	9/15/97	79	ug/l	50	10	1050		
MW-4	Zinc, total	3/3/98	81	ug/l	50	10	1050		
MW-4	Zinc, total	10/5/99	78	ug/l	50	10	1050		
MW-4	Zinc, total	9/27/01	56	ug/l	50	10	1050		
MW-4	Zinc, total	9/19/02	142	ug/l	50	10	1050		
MW-4	Zinc, total	3/29/05	92	ug/l	50	10	1050		
MW-4	Zinc, total	9/29/05	85	ug/l	50	10	1050		
MW-4	Zinc, total	9/27/10	295	ug/l	0.08	10	1050		
MW-5	Beryllium, total	4/19/96	7	ug/l	2	1	NE		4
MW-5	Beryllium, total	3/17/97	4	ug/l	2	1	NE		4
MW-5	Beryllium, total	3/3/98	2.3	ug/l	2	1	NE		4
MW-5	**Cadmium, total**	**9/29/08**	**2**	**ug/l**	**0.04**	1	**1.75**		
MW-5	**Chromium, total**	**2/6/95**	**13**	**ug/l**	**10**	**10**	**10**		
MW-5	Chromium, total	4/19/96	10	ug/l	10	**10**	10		
MW-5	**Chromium, total**	**3/17/97**	**29**	**ug/l**	**10**	**10**	**10**		
MW-5	**Chromium, total**	**3/3/98**	**21**	**ug/l**	**10**	**10**	**10**		
MW-5	**Chromium, total**	**3/1/00**	**23**	**ug/l**	**10**	**10**	**10**		
MW-5	**Chromium, total**	**9/21/00**	**21**	**ug/l**	**10**	**10**	**10**		
MW-5	**Chromium, total**	**3/8/01**	**14**	**ug/l**	**10**	**10**	**10**		
MW-5	**Chromium, total**	**9/19/02**	**15**	**ug/l**	**10**	**10**	**10**		
MW-5	**Chromium, total**	**3/19/03**	**21**	**ug/l**	**10**	**10**	**10**		
MW-5	**Iron, total**	**3/19/07**	**29725**	**ug/l**	**50**	**300**	**300**		
MW-5	**Iron, total**	**9/13/07**	**9750**	**ug/l**	**12**	**300**	**300**		
MW-5	**Iron, total**	**3/28/08**	**3218**	**ug/l**	**14**	**300**	**300**		
MW-5	**Iron, total**	**9/29/08**	**11055**	**ug/l**	**14**	**300**	**300**		
MW-5	**Iron, total**	**3/30/09**	**28175**	**ug/l**	**14**	**300**	**300**		
MW-5	**Iron, total**	**9/8/09**	**11585**	**ug/l**	**14**	**300**	**300**		

Sample ID	Parameter Name [1]	Sample Date	Result	Unit	MDL or PQL [2]	SWSL [3]	2L [4]	2B [5]	GWP [6]
MW-5	Lead, total	2/6/95	10	ug/l	10	10	15		
MW-5	Lead, total	4/19/96	14	ug/l	10	10	15		
MW-5	**Lead, total**	**3/17/97**	**54**	**ug/l**	**10**	10	**15**		
MW-5	**Lead, total**	**3/3/98**	**28**	**ug/l**	**10**	**10**	**15**		
MW-5	**Lead, total**	**3/1/00**	**16**	**ug/l**	**10**	**10**	**15**		
MW-5	Lead, total	3/27/02	11	ug/l	10	10	15		
MW-5	Lead, total	9/19/02	12	ug/l	10	**10**	15		
MW-5	**Lead, total**	**3/19/03**	**27**	**ug/l**	**10**	**10**	**15**		
MW-5	Lead, total	9/29/05	12	ug/l	10	10	15		
MW-5	Mercury, total	9/27/10	0.37	ug/l	0.08	0.2	1.05		
MW-5	Nickel, total	9/21/00	67	ug/l	50	50	100		
MW-5	Vanadium, total	3/17/97	46	ug/l	40	25	NE		3.5
MW-5	Vanadium, total	3/1/00	46	ug/l	40	25	NE		3.5
MW-5	Vanadium, total	3/19/03	47	ug/l	40	25	NE		3.5
MW-5	**Vinyl Chloride**	**3/28/08**	**0.4**	**ug/l**	**0.34**	**1**	**0.03**		
MW-5	**Vinyl Chloride**	**3/30/09**	**2.3**	**ug/l**	**0.34**	**1**	**0.03**		
MW-5	**Vinyl Chloride**	**3/30/10**	**2.9**	**ug/l**	**0.63**	**1**	**0.03**		
MW-5	Zinc, total	9/27/10	11	ug/l	0.08	10	1050		
MW-6	**Arsenic, total**	**9/27/10**	**18**	**ug/l**	**0.04**	**10**	**10**		
MW-6	Barium, total	3/17/97	683	ug/l	500	100	700		
MW-6	Barium, total	3/3/98	638	ug/l	500	100	700		
MW-6	Barium, total	9/9/98	539	ug/l	500	100	700		
MW-6	Barium, total	9/27/10	532	ug/l	0.03	100	700		
MW-6	Beryllium, total	9/12/95	2	ug/l	2	1	NE		4
MW-6	Beryllium, total	3/17/97	11	ug/l	2	1	NE		4
MW-6	Beryllium, total	3/3/98	12.4	ug/l	2	1	NE		4
MW-6	Beryllium, total	9/9/98	8.4	ug/l	2	1	NE		4
MW-6	Beryllium, total	10/5/99	2	ug/l	2	1	NE		4
MW-6	Beryllium, total	9/27/10	4	ug/l	0.02	1	NE		4
MW-6	Cadmium, total	3/25/99	1	ug/l	1	**1**	1.75		
MW-6	**Cadmium, total**	**9/19/02**	**5**	**ug/l**	**1**	1	**1.75**		

Sample ID	Parameter Name [1]	Sample Date	Result	Unit	MDL or PQL [2]	SWSL [3]	2L [4]	2B [5]	GWP [6]
MW-6	**Chromium, total**	**9/15/94**	**13**	**ug/l**	**10**	**10**	**10**		
MW-6	**Chromium, total**	**11/18/94**	**32**	**ug/l**	**10**	10	**10**		
MW-6	Chromium, total	1/12/95	10	ug/l	10	10	10		
MW-6	**Chromium, total**	**9/12/95**	**20**	**ug/l**	**10**	**10**	**10**		
MW-6	**Chromium, total**	**4/19/96**	**13**	**ug/l**	**10**	**10**	**10**		
MW-6	**Chromium, total**	**3/17/97**	**39**	**ug/l**	**10**	**10**	**10**		
MW-6	**Chromium, total**	**9/15/97**	**22**	**ug/l**	**10**	**10**	**10**		
MW-6	**Chromium, total**	**3/3/98**	**41**	**ug/l**	**10**	**10**	**10**		
MW-6	**Chromium, total**	**9/9/98**	**50**	**ug/l**	**10**	**10**	**10**		
MW-6	**Chromium, total**	**3/25/99**	**28**	**ug/l**	**10**	**10**	**10**		
MW-6	**Chromium, total**	**10/5/99**	**74**	**ug/l**	**10**	**10**	**10**		
MW-6	**Chromium, total**	**3/1/00**	**13**	**ug/l**	**10**	**10**	**10**		
MW-6	**Chromium, total**	**9/21/00**	**14**	**ug/l**	**10**	**10**	**10**		
MW-6	**Chromium, total**	**3/8/01**	**46**	**ug/l**	**10**	**10**	**10**		
MW-6	**Chromium, total**	**9/27/01**	**33**	**ug/l**	**10**	**10**	**10**		
MW-6	**Chromium, total**	**3/27/02**	**26**	**ug/l**	**10**	**10**	**10**		
MW-6	**Chromium, total**	**9/19/02**	**65**	**ug/l**	**10**	**10**	**10**		
MW-6	**Chromium, total**	**3/19/03**	**56**	**ug/l**	**10**	**10**	**10**		
MW-6	**Chromium, total**	**9/11/03**	**15**	**ug/l**	**10**	**10**	**10**		
MW-6	**Chromium, total**	**3/18/04**	**115**	**ug/l**	**10**	**10**	**10**		
MW-6	**Chromium, total**	**9/30/04**	**13**	**ug/l**	**10**	**10**	**10**		
MW-6	**Chromium, total**	**3/3/06**	**13**	**ug/l**	**10**	**10**	**10**		
MW-6	**Chromium, total**	**9/21/06**	**15**	**ug/l**	**10**	**10**	**10**		
MW-6	**Chromium, total**	**9/27/10**	**28**	**ug/l**	**0.03**	**10**	**10**		
MW-6	Cobalt, total	3/3/98	11	ug/l	10	10	NE		70
MW-6	**Iron, total**	**3/19/07**	**1221**	**ug/l**	**50**	**300**	**300**		
MW-6	**Iron, total**	**9/13/07**	**1407**	**ug/l**	**12**	**300**	**300**		
MW-6	**Iron, total**	**3/28/08**	**657**	**ug/l**	**14**	**300**	**300**		
MW-6	**Iron, total**	**9/29/08**	**658**	**ug/l**	**14**	**300**	**300**		
MW-6	**Iron, total**	**3/30/09**	**908**	**ug/l**	**14**	**300**	**300**		
MW-6	**Iron, total**	**9/8/09**	**2072**	**ug/l**	**14**	**300**	**300**		
MW-6	Lead, total	9/15/94	14	ug/l	10	10	15		
MW-6	**Lead, total**	**11/18/94**	**17**	**ug/l**	**10**	**10**	**15**		
MW-6	**Lead, total**	**9/12/95**	**20**	**ug/l**	**10**	**10**	**15**		
MW-6	Lead, total	4/19/96	14	ug/l	10	10	15		
MW-6	**Lead, total**	**3/17/97**	**101**	**ug/l**	**10**	**10**	**15**		
MW-6	Lead, total	9/15/97	15	ug/l	10	**10**	15		
MW-6	**Lead, total**	**3/3/98**	**81**	**ug/l**	**10**	**10**	**15**		
MW-6	**Lead, total**	**9/9/98**	**75**	**ug/l**	**10**	**10**	**15**		
MW-6	**Lead, total**	**10/5/99**	**30**	**ug/l**	**10**	**10**	**15**		
MW-6	**Lead, total**	**3/27/02**	**16**	**ug/l**	**10**	**10**	**15**		
MW-6	**Lead, total**	**9/19/02**	**30**	**ug/l**	**10**	**10**	**15**		
MW-6	**Lead, total**	**3/19/03**	**23**	**ug/l**	**10**	**10**	**15**		
MW-6	**Lead, total**	**3/18/04**	**28**	**ug/l**	**10**	**10**	**15**		
MW-6	Lead, total	3/3/06	13	ug/l	10	10	15		
MW-6	**Lead, total**	**9/21/06**	**30**	**ug/l**	**10**	**10**	**15**		
MW-6	**Lead, total**	**9/27/10**	**76**	**ug/l**	**0.01**	**10**	**15**		

Sample ID	Parameter Name [1]	Sample Date	Result	Unit	MDL or PQL [2]	SWSL [3]	2L [4]	2B [5]	GWP [6]
MW-6	Vanadium, total	3/17/97	59	ug/l	40	25	NE		3.5
MW-6	Vanadium, total	3/3/98	44	ug/l	40	25	NE		3.5
MW-6	Vanadium, total	9/9/98	165	ug/l	40	25	NE		3.5
MW-6	Vanadium, total	10/5/99	86	ug/l	40	25	NE		3.5
MW-6	Vanadium, total	3/8/01	56	ug/l	40	25	NE		3.5
MW-6	Vanadium, total	9/19/02	73	ug/l	40	25	NE		3.5
MW-6	Vanadium, total	3/19/03	74	ug/l	40	25	NE		3.5
MW-6	Vanadium, total	3/18/04	136	ug/l	40	25	NE		3.5
MW-6	Vanadium, total	9/27/10	36	ug/l	0.03	25	NE		3.5
MW-6	Vanadium, total	3/21/11	8 j	ug/l	0.14	25	NE		3.5
MW-6	Vanadium, total	3/19/12	6.4 j	ug/l	0.14	25	NE		3.5
MW-6	Zinc, total	3/17/97	161	ug/l	50	10	1050		
MW-6	Zinc, total	3/3/98	191	ug/l	50	10	1050		
MW-6	Zinc, total	9/9/98	178	ug/l	50	10	1050		
MW-6	Zinc, total	10/5/99	103	ug/l	50	10	1050		
MW-6	Zinc, total	9/19/02	76	ug/l	50	10	1050		
MW-6	Zinc, total	3/18/04	81	ug/l	50	10	1050		
MW-6	Zinc, total	9/27/10	110	ug/l	0.08	10	1050		
MW-7	**Chromium, total**	**9/27/10**	**21**	**ug/l**	**0.03**	10	**10**		
MW-7	**Iron, total**	**3/28/08**	**963**	**ug/l**	**14**	**300**	**300**		
MW-7	**Lead, total**	**3/28/08**	**763**	**ug/l**	**0.04**	**10**	**15**		
MW-7	Lead, total	9/27/10	13	ug/l	0.01	**10**	15		
MW-7	Vanadium, total	3/28/08	7.1 j	ug/l	1.21	25	NE		3.5
MW-7	Vanadium, total	9/27/10	26	ug/l	0.03	25	NE		3.5
MW-7	Vanadium, total	3/19/12	10.3 j	ug/l	0.14	25	NE		3.5
MW-7	Zinc, total	3/28/08	17	ug/l	1.86	10	1050		
MW-7	Zinc, total	9/27/10	34	ug/l	0.08	10	1050		
MW-8	Beryllium, total	9/27/10	1	ug/l	0.02	1	NE		4
MW-8	**Chromium, total**	**9/27/10**	**13**	**ug/l**	**0.03**	**10**	**10**		
MW-8	**Lead, total**	**9/27/10**	**28**	**ug/l**	**0.01**	**10**	**15**		
MW-8	Lead, total	3/21/11	15	ug/l	0.02	10	15		
MW-8	Lead, total	3/19/12	12	ug/l	0.02	10	15		
MW-8	Vanadium, total	9/27/10	40	ug/l	0.03	25	NE		3.5
MW-8	Vanadium, total	3/21/11	21.6 j	ug/l	0.14	25	NE		3.5
MW-8	Vanadium, total	3/19/12	17.1 j	ug/l	0.14	25	NE		3.5
MW-8	Zinc, total	9/29/08	10	ug/l	1.86	10	1050		
MW-8	Zinc, total	9/27/10	22	ug/l	0.08	10	1050		

Sample ID	Parameter Name [1]	Sample Date	Result	Unit	MDL or PQL [2]	SWSL [3]	2L [4]	2B [5]	GWP [6]
Upstream	Cadmium, total	3/27/02	1	ug/l	1	1		2	
Upstream	Cadmium, total	3/19/03	2	ug/l	1	1		2	
Upstream	**Cadmium, total**	**3/18/04**	**3**	**ug/l**	**1**	**1**		**2**	
Upstream	**Silver, total**	**3/30/10**	**0.1**	**ug/l**	**0.03**	**10**		**0.06**	
Upstream	Vanadium, total	9/29/08	5.7 j	ug/l	1.21	25		NE	
Upstream	Vanadium, total	3/30/09	1.8 j	ug/l	0.28	25		NE	
Upstream	Vanadium, total	3/30/10	1.7 j	ug/l	0.03	25		NE	
Upstream	Zinc, total	3/18/04	32	ug/l	50	10		50	
Upstream	**Zinc, total**	**3/29/05**	**62**	**ug/l**	**50**	**10**		**50**	
Upstream	Zinc, total	9/29/08	19	ug/l	1.86	10		50	
Upstream	Zinc, total	3/30/09	10	ug/l	0.14	10		50	
Downstream	Chromium, total	9/19/02	26	ug/l	10	10		50	
Downstream	Lead, total	9/19/02	21	ug/l	10	10		25	
Downstream	**Silver, total**	**3/30/09**	**0.1**	**ug/l**	**0.04**	**10**		**0.06**	
Downstream	**Silver, total**	**3/30/10**	**0.1**	**ug/l**	**0.03**	**10**		**0.06**	
Downstream	Styrene	9/29/08	0.2 j	ug/l	0.16	1		NE	
Downstream	Toluene	9/29/05	10.9	ug/l	5	1		11	
Downstream	Vanadium, total	9/19/02	43	ug/l	40	25		NE	
Downstream	Vanadium, total	3/28/08	2.6 j	ug/l	1.21	25		NE	
Downstream	Vanadium, total	9/29/08	7.5 j	ug/l	1.21	25		NE	
Downstream	Vanadium, total	3/30/09	5.1 j	ug/l	0.28	25		NE	
Downstream	Vanadium, total	9/8/09	4.7 j	ug/l	0.28	25		NE	
Downstream	Vanadium, total	3/30/10	3.1 j	ug/l	0.03	25		NE	
Downstream	Vanadium, total	9/27/10	10.8 j	ug/l	0.03	25		NE	
Downstream	Vanadium, total	3/21/11	1.9 j	ug/l	0.14	25		NE	
Downstream	Vanadium, total	9/28/11	4.3 j	ug/l	0.14	25		NE	
Downstream	Vanadium, total	3/19/12	3.4 j	ug/l	0.14	25		NE	
Downstream	**Zinc, total**	**9/19/02**	**70**	**ug/l**	**50**	**10**		**50**	
Downstream	Zinc, total	3/18/04	21	ug/l	50	10		50	
Downstream	Zinc, total	9/29/08	45	ug/l	1.86	10		50	
Downstream	Zinc, total	3/30/09	15	ug/l	0.14	10		50	
Downstream	Zinc, total	3/30/10	13	ug/l	0.08	10		50	
Downstream	Zinc, total	9/27/10	17	ug/l	0.08	10		50	
EB	Toluene	4/19/96	7	ug/l	5	1	600		
EB	Zinc, total	3/25/99	114	ug/l	50	10	1050		
FB	Chloromethane	3/21/11	2.2	ug/l	0.77	1	2.6		
EB	**Chloromethane**	**3/21/11**	**3**	**ug/l**	**0.77**	**1**	**2.6**		

[1] Parameter Name = Table contains detections above current SWSL, GWP, 2L or 2B Standards
And detections above MDL or PQL if no Standard established

[2] MDL = Method Detection Limit (>3/19/07) , PQL = Practical Quantitative Limit (<3/19/07)

[3] SWSL = Solid Waste Section Reporting Limit

[4] 2L = North Carolina 15A NCAC 2L Groundwater Quality Standard (Current as of 3/19/12)

[5] 2B = North Carolina 15 NCAC 2B Surface Water Quality Standard for Class C (Current as of 3/19/12)

[6] GWP = Groundwater Protection Standard (Current as of 3/19/12)

j =Defined by laboratory as between MDL and SWSL

NE = Not Established

BOLD = Concentration > 2L, or 2B Standard

Table 3. Analytical Data Summary for Monitoring Well MW4 (March 2009 through March 2012)

MW-4	TDS	Chlorobenz	Chloroethane	1,4 DCB	1,1-DCA	Cis-1,2-DCE	Meth Chlor	TCE	VC	Benzene
9/29/08	111000	1.5	11.3	5.9	1.2	11.6	1.1	0.5	7	3.4
3/30/09	234000	2.2	18.3	7.2	1.1	14	1.3	0.3	10.2	5.8
9/8/09	153000	1.3	9.1	4.5	1.8	9.1	0.9	0.3	6	3.5
3/30/10	0	1.8	18.6	5.3	1.6	13.7	1	0.6	10.3	5.3
9/27/10	0	0.9	8.5	3	1.7	6.8	0.7	0	4.1	2.5
3/21/11	0	1	9.6	2.9	1.1	6.2	0.8	0	5.4	3
9/28/11	0	1.2	6.5	3.8	1.5	7	0.8	0	5.3	3
3/19/12	0	1.1	9.7	3.3	0	4.9	0	0	7.6	3.2
2L	500000	50	3000	6	6	70	5	3	0.03	1
SWSL	-	3	10	1	5	5	1	1	1	1
GWP	-	-	-	-	-	-	-	-	-	-

= exceeds 2L standard

All units = ug/l or other standard units (nmos, pH, etc)

COCs = benzene, chloroethane, vinyl chloride, cis-1,2-dichloroethene, p-dichlorobenzene and toluene (per ACM, 2007)

2L, SWSL, GWP blanks = no known standard

0 = not detected or not analyzed for

Some low level detections have been omitted from this chart/see previously-submitted lab reports for all detections

Green County C&D Landfill (40-02)

MESCO/dmd/ 9.11.12

Table 3. Analytical Data Summary for Monitoring Well MW4 (March 2009 through March 2012)

MW-4	Ethyl Benz	Toluene	Arsenic	Barium	Chromium	Iron	Lead	Mn	Va	Zn	Acetic
9/29/08	0.2	1.9	4.8	55	0.7	21100	2.8	171	2.3	4	*No MNA* *
3/30/09	3.2	1.6	1.3	193	0.4	84650	1.8	167	4.3	2.8	*No MNA* *
9/8/09	0.2	2.8	4.6	94.8	0.3	60525	1.2	269	3.5	3.2	*No MNA* *
3/30/10	4.1	1	0.2	193	0.4	495000	1.7	0	0.6	6.4	83
9/27/10	0	1	16	803	28	133700	121	0	74	295	33
3/21/11	0.3	0.3	1.8	54.3	1.1	56500	2	0	4.8	1.9	82
9/28/11	0	0.4	3.4	45.1	0.28	55025	0.52	0	2.7	6.5	180
3/19/12	0.3	0.5	2.4	35.2	0.28	72975	0.22	0	1.7	0.98	<6
2L	600	600	10	700	10	300	15	50	-	1000	-
SWSL	1	1	10	100	10	300	10	50	25	10	-
GWP	-	-	-	-	-	-	-	-	0.3	-	-
			*	*	*	*	*	*	*	*	

* Indicates that samples were analyzed for TOTAL metals. 2L standards apply to samples analyze

Table 3. Analytical Data Summary for Monitoring Well MW4 (March 2009 through March 2012)

MW-4	Butyric	Hexanoic	i-Hexanoic	i-Pentanoic	Lactic	Pentaonic	Propionic	Pyruvic	Hydrogen	Methane	Ethene	Ethane
9/29/08	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********
3/30/09	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********
9/8/09	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********
3/30/10	<70	<100	<100	<70	<100	<70	<70	<70	0.88	8500	0.15	<0.010
9/27/10	<4	<6	<6	<44	93	<12	<7	<33	2	450	0.08	<0.01
3/21/11	<4	<6	<6	<44	330	<12	85	<33	0.89	4100	0.13	<0.001
9/28/11	<4	210	<6	<44	150	<12	9600	787	4.1	8000	<.001	0.19
3/19/12	<4	<6	<6	<44	<10	<12	<7	<33	1	5400	0.15	0.02
2L	-	-	-	-	-	-	-	-	-	-	-	-
SWSL	-	-	-	-	-	-	-	-	-	-	-	-
GWP	-	-	-	-	-	-	-	-	-	-	-	-

:d for DISSOLVED metals.

Table 3. Analytical Data Summary for Monitoring Well MW4 (March 2009 through March 2012)

MW-4	CO2, diss	Alkalinity	Sulfate	Sulfide	Chloride	TOC	COD	BOD	Nitrate	ORP	DO	pH
9/29/08	*****	114000	11600	0	9000	0	0	0	0	0	0	5.6
3/30/09	*****	200000	10300	0	9000	0	0	0	0	0	0	5.6
9/8/09	*****	136000	10800	0	8000	0	0	0	0	0	0	5.6
3/30/10	655000	10000	11600	989	7000	11170	45000	13000	40	-30.2	570	5.85
9/27/10	318000	132000	5100	<100	8000	4690	29000	2400	<30	-71.2	500	5.69
3/21/11	326000	121000	<5000	386	10000	6630	40000	4200	50	-26.4	2150	5.53
9/28/11	181000	109000	9600	787	10000	7290	39000	10000	5.8	5.8	2120	5.52
3/19/12	755000	183000	8100	614	7000	1600	36000	16000	<30	11	1410	5.55
2L	-	-	250000	-	250	-	-	-	10000	-	-	-
SWSL	-	-	250000	-	-	-	-	-	10000	-	-	-
GWP	-	-	-	-	-	-	-	-	-	-	-	-

Table 3. Analytical Data Summary for Monitoring Well MW4 (March 2009 through March 2012)

MW-4	Spec Cond	Turbidity
9/29/08	342	0
3/30/09	432	0
9/8/09	308	0
3/30/10	393	13.1
9/27/10	275	877
3/21/11	270	85
9/28/11	247	9
3/19/12	371	4.8
2L	-	-
SWSL	-	-
GWP	-	-

Table 4
MNA Parameters at Monitoring Well Locations Summary
September 27, 2010 through March 19, 2012

Parameters	Method	MDL*	Units	MW-1R	MW-1R	MW-1R	MW-1R	MW-1R	MW-1R	MW-1R
				09/27/10	03/23/11	09/28/11	03/19/12	Minimum	Average	Maximum
VFA – Acetic Acid	AM23G	6	ug/l	15	40	<6	<6	3	15	40
VFA – Butyric Acid	AM23G	4	ug/l	<4	<4	<4	<4	2	2	2
VFA – Hexanoic Acid	AM23G	6	ug/l	<6	<6	<6	<6	3	3	3
VFA – i-Hexanoic Acid	AM23G	6	ug/l	<6	<6	<6	<6	3	3	3
VFA – i-Pentanoic Acid	AM23G	44	ug/l	<44	<44	<44	<44	22	22	22
VFA – Lactic Acid	AM23G	10	ug/l	57	190	240	<10	5	123	240
VFA – Pentaonic Acid	AM23G	12	ug/l	<12	<12	<12	<12	6	6	6
VFA – Propionic Acid	AM23G	7	ug/l	<7	<7	<7	<7	4	4	4
VFA – Pyruvic Acid	AM23G	33	ug/l	<33	<33	<33	<33	17	17	17
Hydrogen	AM20GAX	0.25	nM	1.6	0.8	1.1	0.69	0.69	1.05	1.60
Methane	AM20GAX	0.003	ug/l	0.89	520	40	490	0.89	262.72	520.00
Ethene	AM20GAX	0.002	ug/l	0.004	0.009	<.001	0.01	0.001	0.006	0.010
Ethane	AM20GAX	0.001	ug/l	<0.01	<0.001	<.002	<0.001	0.001	0.002	0.005
CO2-Dissolved	SM4500CO2C	1000	ug/l	102000	60000	96000	95000	60000	88250	102000
Alkalinity	SM2320B	1000	ug/l	<1000	<1000	<1000	7000	500	2125	7000
Sulfate	SM426C	5000	ug/l	<5000	5200	<5000	15200	2500	6350	15200
Sulfide	SM4500-S2D	100	ug/l	<100	<100	<100	<100	50	50	50
Chloride	SM4500-CLB	5000	ug/l	67000	222000	172000	105000	67000	141500	222000
TOC	SM5310C	300	ug/l	1340	<300	<300	8980	150	2655	8980
COD	HACH8000	20000	ug/l	16000	16000	<20000	<20000	1000	10750	16000
BOD	SM5210B	2000	ug/l	<2000	<2000	<2000	<2000	1000	1000	1000
Iron, Total	SM3111B	15.9	ug/l	708	315	7635	499	315.0	2289.3	7635.0
Nitrate	EPA353.2	30	ug/l	2990	3170	1510	1410	1410	2270	3170
Temperature	SM2550B	0.10	C	18.28	13.6	22.70	14.66	13.60	17.31	22.70
ORP	SM2580B	0.0	mV	225.3	362.9	364.6	4.8	4.8	239.4	364.6
DO	SM4500OG	100	ug/l	1470	1780	340	300	300	973	1780
pH	SM4500HB	0.10	SU	4.45	4.38	4.25	4.97	4.25	4.51	4.97
Specific Conductance	SM2510B	1	ug/l	259	75	577	444	75	339	577
Turbidity	SM2130B	0.0	NTU	13.7	2	76	11.0	2.0	25.7	76.0

Notes:

VFA = Volatile Fatty Acids

MDL* = lowest method detection limit for lab parameters or lowest field measurement possible

Non Detections represented at ½ MDL for statistical calculations

Table 4

MNA Parameters at Monitoring Well Locations Summary

September 27, 2010 through March 19, 2012

Parameters	Method	MDL*	Units	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4
				09/27/10	03/21/11	09/28/11	03/19/12	Minimum	Average	Maximum
VFA – Acetic Acid	AM23G	6	ug/l	33	82	180	<6	3	74.5	180
VFA – Butyric Acid	AM23G	4	ug/l	<4	<4	<4	<4	2	2	2
VFA – Hexanoic Acid	AM23G	6	ug/l	<6	<6	210	<6	3	54.75	210
VFA – i-Hexanoic Acid	AM23G	6	ug/l	<6	<6	<6	<6	3	3	3
VFA – i-Pentanoic Acid	AM23G	44	ug/l	<44	<44	<44	<44	22	22	22
VFA – Lactic Acid	AM23G	10	ug/l	93	330	150	<10	5	144.5	330
VFA – Pentaonic Acid	AM23G	12	ug/l	<12	<12	<12	<12	6	6	6
VFA – Propionic Acid	AM23G	7	ug/l	<7	85	80	<7	3.5	43	85
VFA – Pyruvic Acid	AM23G	33	ug/l	<33	<33	<33	<33	16.5	16.5	16.5
Hydrogen	AM20GAX	0.25	nM	2	0.89	4.1	1	0.89	2	4.1
Methane	AM20GAX	0.003	ug/l	450	4100	8000	5400	450	4487.5	8000
Ethene	AM20GAX	0.002	ug/l	0.08	0.13	<.001	0.15	0.01	0.09	0.15
Ethane	AM20GAX	0.001	ug/l	<0.01	<0.001	0.19	0.02	0	0.05	0.19
CO2-Dissolved	SM4500CO2C	1000	ug/l	318000	326000	181000	755000	181000	395000	755000
Alkalinity	SM2320B	1000	ug/l	132000	121000	109000	183000	109000	136250	183000
Sulfate	SM426C	5000	ug/l	5100	<5000	<5000	8100	2500	4550	8100
Sulfide	SM4500-S2D	100	ug/l	<100	386	787	614	386	571.75	787
Chloride	SM4500-CLB	5000	ug/l	67000	10000	10000	7000	7000	23500	67000
TOC	SM5310C	300	ug/l	4690	6630	7290	1600	1600	5052.5	7290
COD	HACH8000	20000	ug/l	29000	40000	39000	36000	29000	36000	40000
BOD	SM5210B	2000	ug/l	2400	4200	10000	16000	2400	8150	16000
Iron, Total	SM3111B	15.9	ug/l	133700	56500	55025	72975	55025	79550	133700
Nitrate	EPA353.2	30	ug/l	<30	50	5.8	<30	5.8	21.45	50
Temperature	SM2550B	0.10	C	22.21	17.35	19.46	16.21	16.21	18.81	22.21
ORP	SM2580B	0.0	mV	-71.2	-26.4	5.8	11	-71.2	-20.2	11
DO	SM4500OG	100	ug/l	500	2150	2120	1410	500	1545	2150
pH	SM4500HB	0.10	SU	5.69	5.53	5.52	5.55	5.52	5.57	5.69
Specific Conductance	SM2510B	1	ug/l	275	270	247	371	247	290.75	371
Turbidity	SM2130B	0.0	NTU	877	85	9	4.8	4.8	243.95	877

Notes:

VFA = Volatile Fatty Acids

MDL* = lowest method detection limit for lab parameters or lowest field measurement possible

Non Detections represented at ½ MDL for statistical calculations

Table 4

MNA Parameters at Monitoring Well Locations Summary

September 27, 2010 through March 19, 2012

Parameters	Method	MDL*	Units	MW-1R (Background)	MW-4	Difference Between MW-1R & MW-4	Difference from MW-1 to MW-4 (%)
				Average	Average	Average	Average
VFA – Acetic Acid	AM23G	6	ug/l	15.25	74.5	59.25	389
VFA – Butyric Acid	AM23G	4	ug/l	2	2	0	0
VFA – Hexanoic Acid	AM23G	6	ug/l	3	54.75	51.75	1725
VFA – i-Hexanoic Acid	AM23G	6	ug/l	3	3	0	0
VFA – i-Pentanoic Acid	AM23G	44	ug/l	22	22	0	0
VFA – Lactic Acid	AM23G	10	ug/l	123	144.5	21.5	17
VFA – Pentaonic Acid	AM23G	12	ug/l	6	6	0	0
VFA – Propionic Acid	AM23G	7	ug/l	3.5	43	39.5	1129
VFA – Pyruvic Acid	AM23G	33	ug/l	16.5	16.5	0	0
Hydrogen	AM20GAX	0.25	nM	1.05	2	0.95	91
Methane	AM20GAX	0.003	ug/l	262.72	4487.5	4224.78	1608
Ethene	AM20GAX	0.002	ug/l	0.01	0.09	0.09	1453
Ethane	AM20GAX	0.001	ug/l	0	0.05	0.05	2979
CO2-Dissolved	SM4500CO2C	1000	ug/l	88250	395000	306750	348
Alkalinity	SM2320B	1000	ug/l	2125	136250	134125	6312
Sulfate	SM426C	5000	ug/l	6350	4550	-1800	-28
Sulfide	SM4500-S2D	100	ug/l	50	571.75	521.75	1044
Chloride	SM4500-CLB	5000	ug/l	141500	23500	-118000	-83
TOC	SM5310C	300	ug/l	2655	5052.5	2397.5	90
COD	HACH8000	20000	ug/l	10750	36000	25250	235
BOD	SM5210B	2000	ug/l	1000	8150	7150	715
Iron, Total	SM3111B	15.9	ug/l	2289.25	79550	77260.75	3375
Nitrate	EPA353.2	30	ug/l	2270	21.45	-2248.55	-99
Temperature	SM2550B	0.10	C	17.31	18.81	1.5	9
ORP	SM2580B	0.0	mV	239.4	-20.2	-259.6	-108
DO	SM4500OG	100	ug/l	972.5	1545	572.5	59
pH	SM4500HB	0.10	SU	4.51	5.57	1.06	23
Specific Conductance	SM2510B	1	ug/l	338.75	290.75	-48	-14
Turbidity	SM2130B	0.0	NTU	25.68	243.95	218.28	850

Notes:

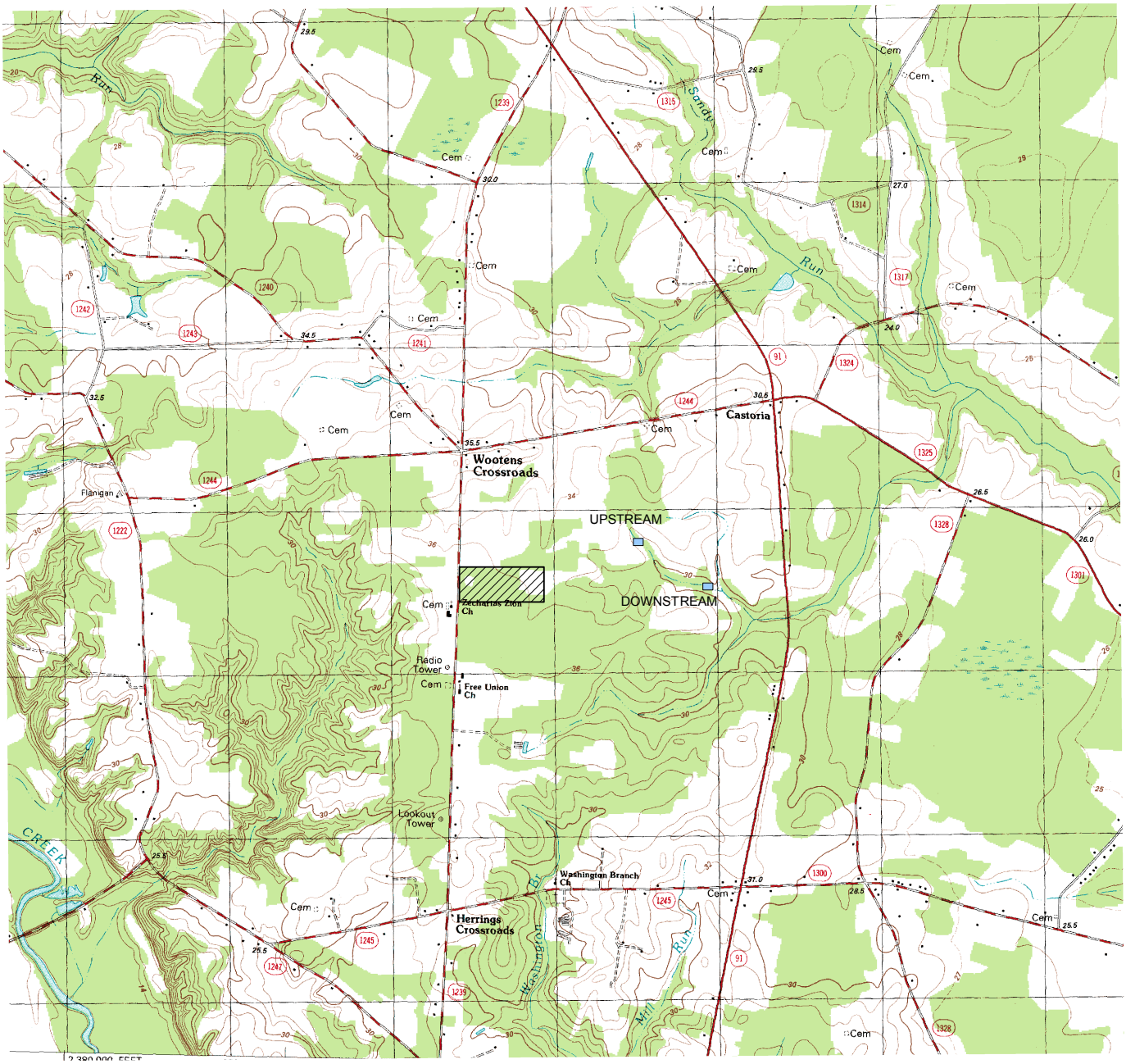
VFA = Volatile Fatty Acids

MDL* = lowest method detection limit for lab parameters or lowest field measurement possible

Non Detections represented at ½ MDL for statistical calculations

FIGURES

Topographic Map of Site and Vicinity
Greene County Active C&D over Closed MSWLF



105 Landfill Road (SR1257)
Walstonburg, NC
Lat:35-31-29.7520
Long:-77-41-49.4325
Northing:648520.2533
Easting:2387660.4409

0 ———— 3,334'

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

NOTE: Topographical map assembled from corresponding USGS 7.5-min. quadrangles of the subject region.

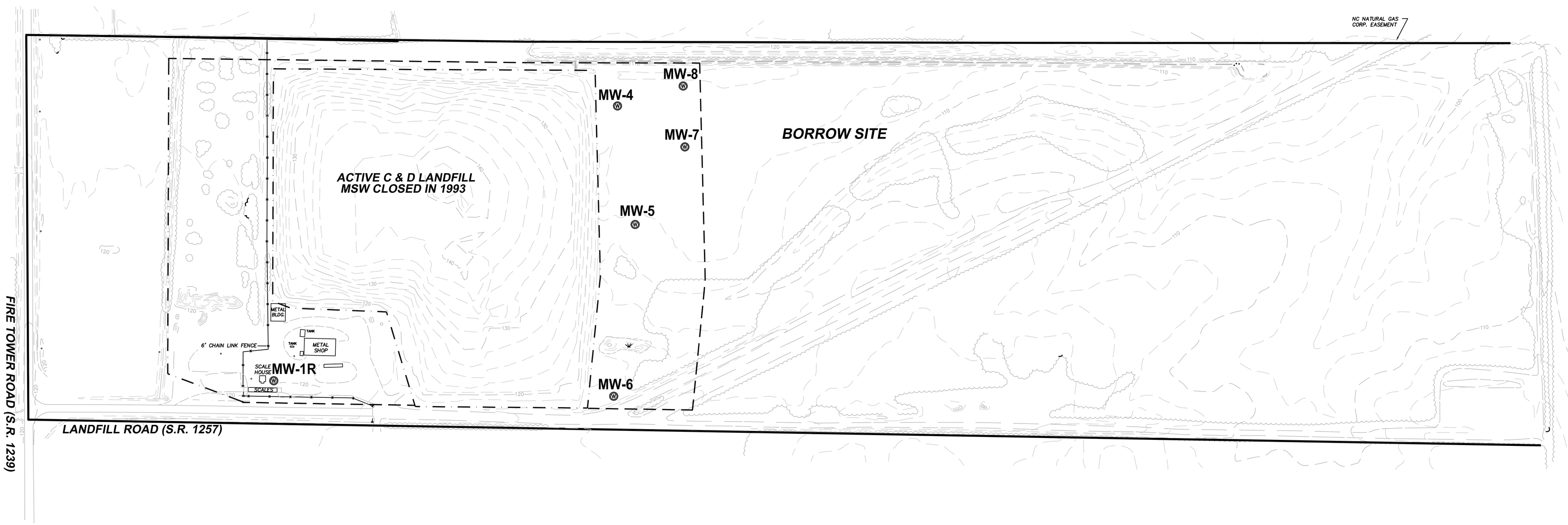
FIGURE 1

LEGEND

- RELEVANT COMPLIANCE BOUNDARY (250' FROM WASTE OR 50' FROM PROPERTY LINE)
- EXISTING EROSION CONTROL DIVERSION DITCH
- 120 EXISTING TOPOGRAPHIC CONTOURS
- PROPERTY LINE
- WASTE LIMIT OF UNLINED MSWLF
- MW-1R MONITORING WELL

NOTES

THIS MAP WAS GENERATED FROM AERIAL PHOTOS FLOWN ON 2-22-94 BY TRIANGLE AERIAL MAPPING, SUPPLEMENTED WITH SURVEYS BY MUNICIPAL ENGINEERING SERVICES CO., PA.



GRAPHIC SCALE

120 0 60 120 240 480

(IN FEET)
1 inch = 120 ft.

FIGURE 2A

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

ACTIVE C&D OVER CLOSED MSW LANDFILL FACILITY
GREENE COUNTY NORTH CAROLINA

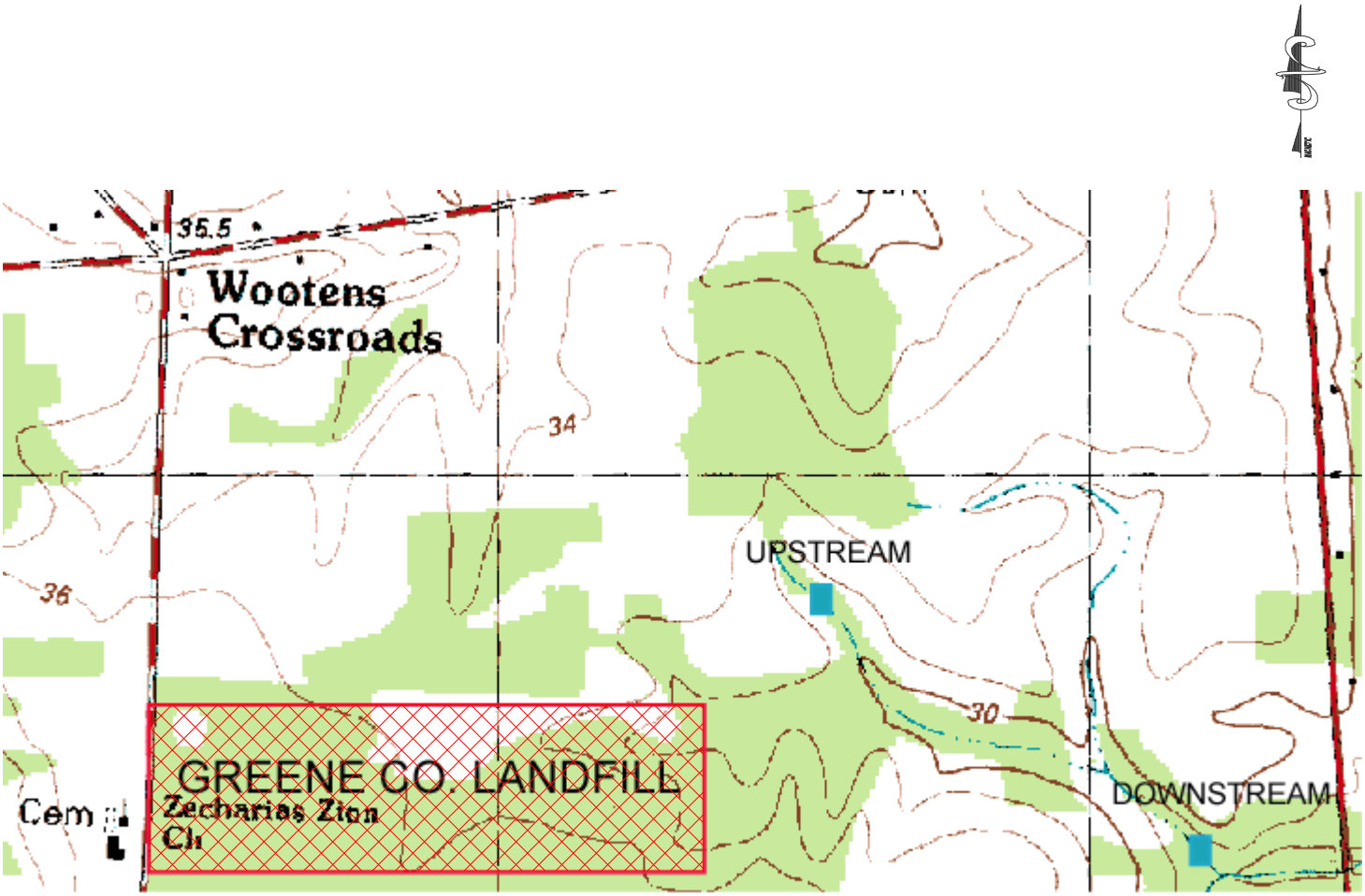
DATE	BY	REV.	DESCRIPTION

SITE MAP WITH SAMPLING LOCATIONS

SCALE:	1" = 120'
DATE:	9/19/12
DRWN. BY:	J. PFOHL
CHKD. BY:	M. DURWAY
PROJECT NUMBER	G11126.0
DRAWING NO.	FIGURE 2A
SHEET NO.	1 OF 1

Surface Water Monitoring Locations

Unnamed Tributary of Sandy Run (Class "C" Water body)
Greene County Active C&D over Closed MSWLF



SCALE 1:1200 FT

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

Municipal Services Engineering Company

Garner, NC Boone, NC

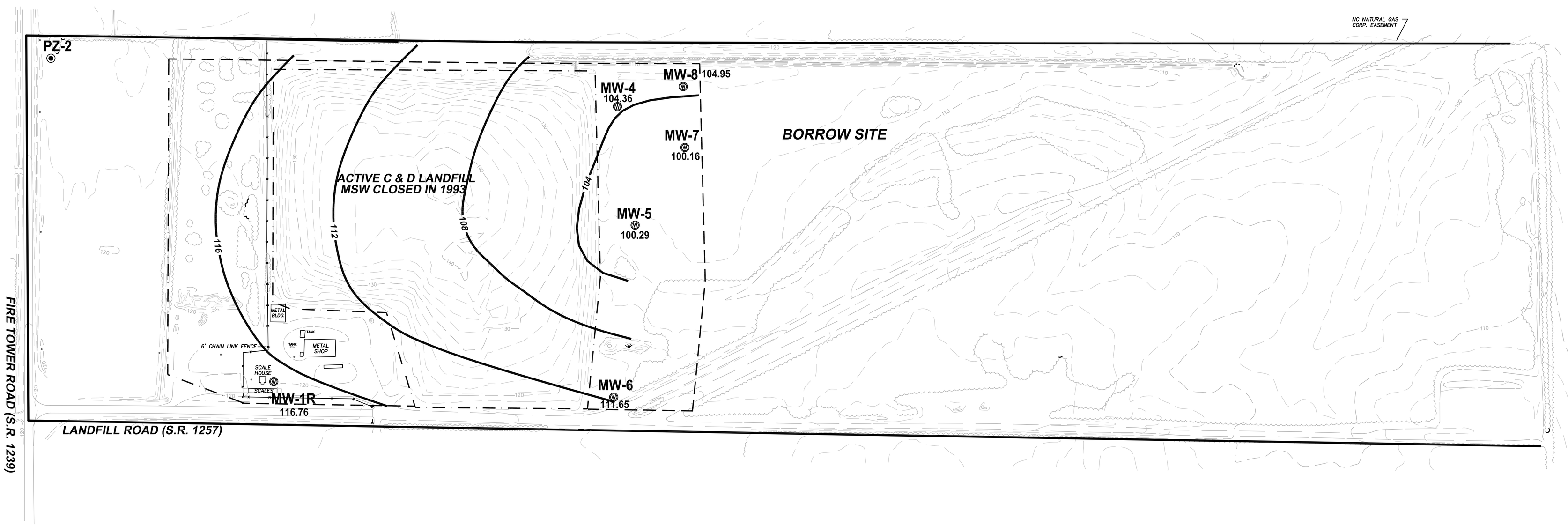
FIGURE 2B

LEGEND

- RELEVANT COMPLIANCE BOUNDARY (250' FROM WASTE OR 50' FROM PROPERTY LINE)
- EXISTING EROSION CONTROL DIVERSION DITCH
- 120 EXISTING TOPOGRAPHIC CONTOURS
- PROPERTY LINE
- WASTE LIMIT OF UNLINED MSWLF
- MW-1R MONITORING WELL
- PZ-2 PIEZOMETER
- 94.29 GROUNDWATER POTENTIOMETRIC ELEVATION
- 112 GROUNDWATER CONTOUR

NOTES

THIS MAP WAS GENERATED FROM AERIAL PHOTOS FLOWN ON 2-22-94 BY TRIANGLE AERIAL MAPPING, SUPPLEMENTED WITH SURVEYS BY MUNICIPAL ENGINEERING SERVICES CO., PA.



GRAPHIC SCALE

120 0 60 120 240 480

(IN FEET)
1 inch = 120 ft.

Groundwater Elevations
March 19, 2012

WELL ID	TOP OF PIPE CASING ELEVATION (FT AMSL)	DEPTH TO WATER (FT)	GROUND WATER ELEVATION (FT AMSL)
MW-1R	121.78	5.02	116.76
MW-4	117.89	13.53	104.36
MW-5	115.76	15.47	100.29
MW-6	117.41	5.76	111.65
MW-7	110.48	10.32	100.16
MW-8	111.36	6.41	104.95

FIGURE 3

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

ACTIVE C&D OVER CLOSED MSW LANDFILL FACILITY
GREENE COUNTY
NORTH CAROLINA

DATE	BY	REV.	DESCRIPTION

POTENTIOMETRIC SURFACE MAP
MARCH 19, 2012

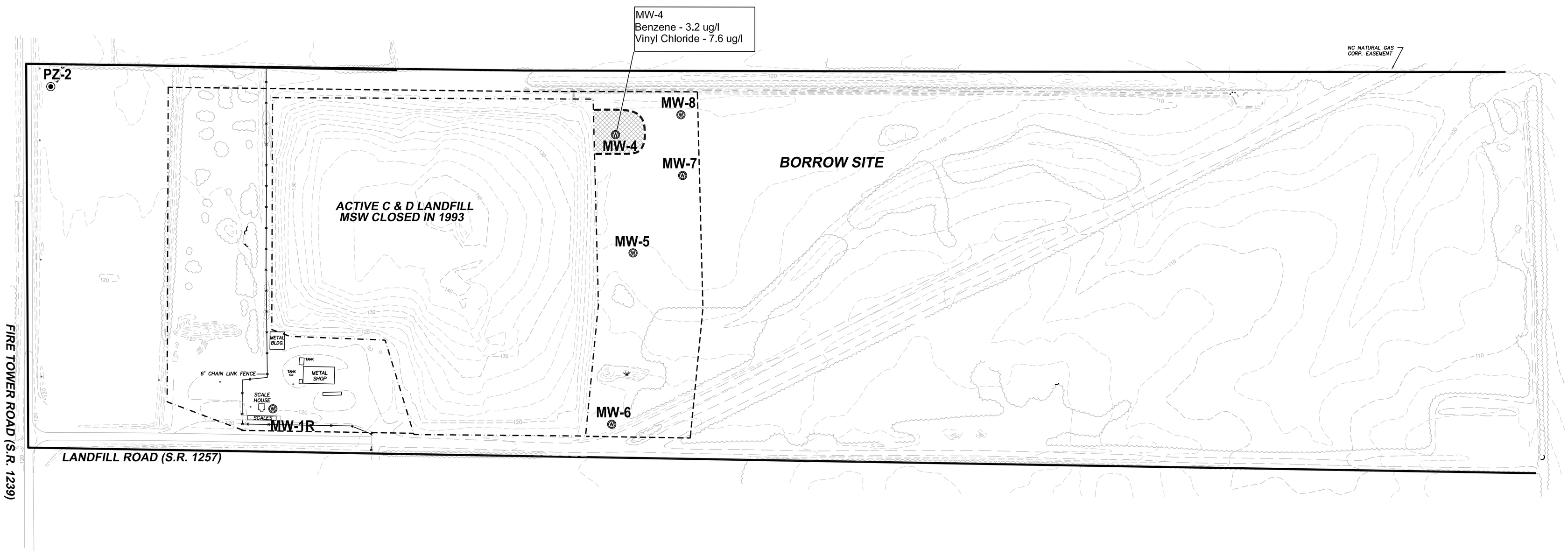
SCALE: 1" = 120'
DATE: 9/19/12
DRWN. BY: M. DURWAY
CHKD. BY: M. DURWAY
PROJECT NUMBER G11126.0
DRAWING NO. FIGURE 3
SHEET NO. 1 OF 1

LEGEND

- RELEVANT COMPLIANCE BOUNDARY (250' FROM WASTE OR 50' FROM PROPERTY LINE)
- EXISTING EROSION CONTROL DIVERSION DITCH
- 120 EXISTING TOPOGRAPHIC CONTOURS
- PROPERTY LINE
- WASTE LIMIT OF UNLINED MSWLF
- ESTIMATED 2L EXCEEDANCE EXTENT MARCH 19, 2012 (0.25 ACRES)
- MW-1R MONITORING WELL
- PZ-2 PIEZOMETER

NOTES

THIS MAP WAS GENERATED FROM AERIAL PHOTOS FLOWN ON 2-22-94 BY TRIANGLE AERIAL MAPPING, SUPPLEMENTED WITH SURVEYS BY MUNICIPAL ENGINEERING SERVICES CO., PA.



Contaminants Detected Above 2L Standards
March 19, 2012

WELL #	BENZENE (ug/l)	VINYL CHLORIDE (ug/l)
2L Standard	1.0	0.03
MW-1R		
MW-4	3.2	7.6
MW-5		
MW-6		
MW-7		
MW-8		

GRAPHIC SCALE

120 0 60 120 240 480

(IN FEET)
1 inch = 120 ft.

FIGURE 4

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

ACTIVE C&D OVER CLOSED MSW LANDFILL FACILITY
GREENE COUNTY
NORTH CAROLINA

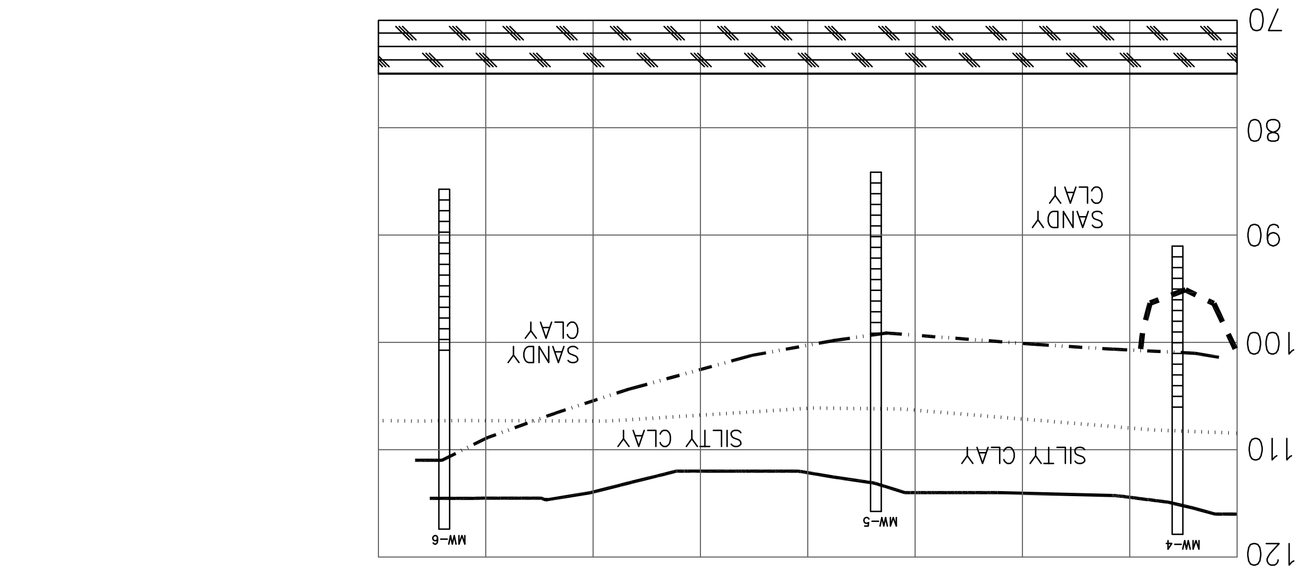
DATE	BY	REV.	DESCRIPTION

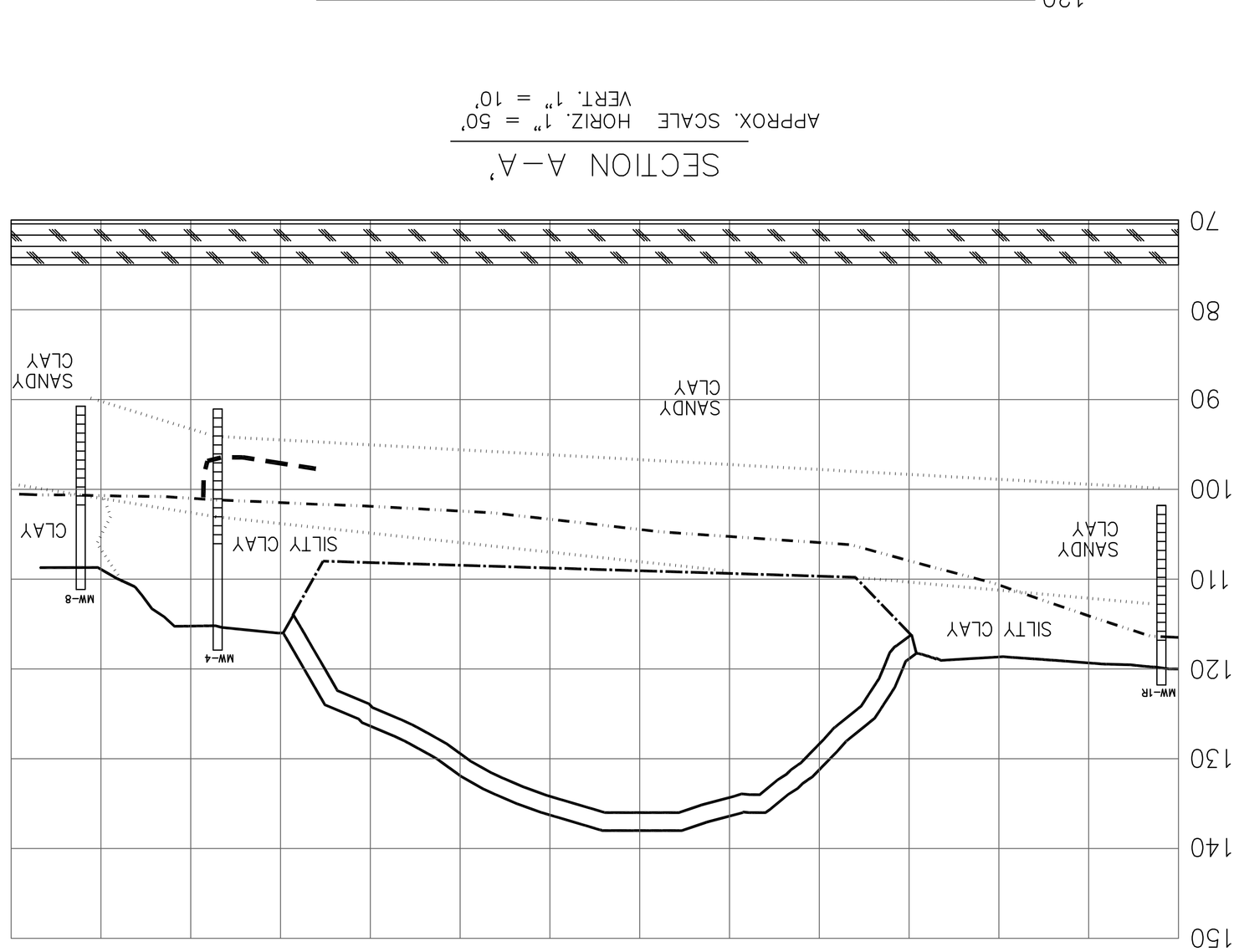
CONTAMINANT CONCENTRATIONS IN GROUNDWATER MARCH 19, 2012

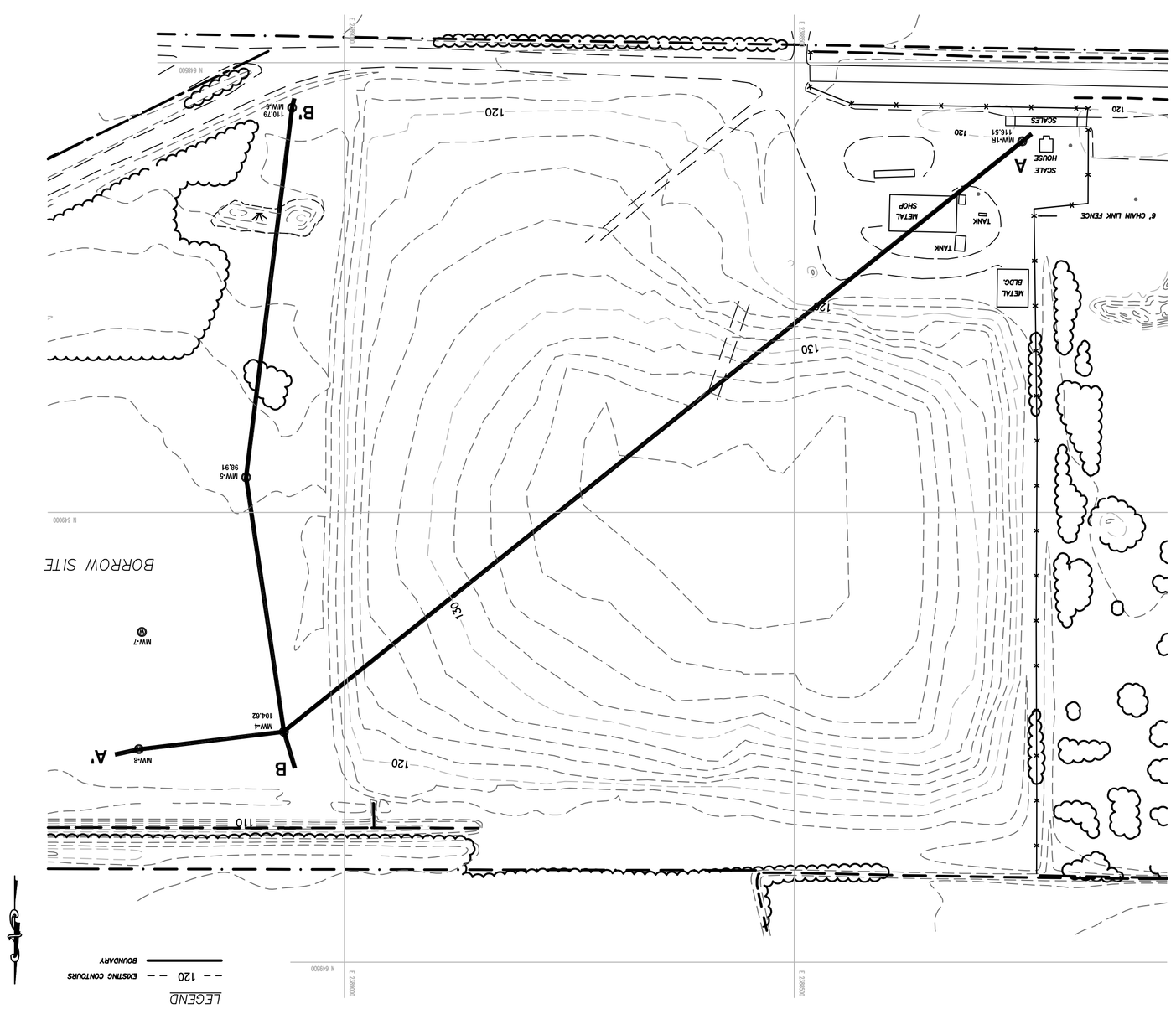
SCALE: 1" = 120'
DATE: 9/19/12
DRWN. BY: J. PFOHL
CHKD. BY: M. DURWAY
PROJECT NUMBER G11126.0
DRAWING NO. FIGURE 4
SHEET NO. 1 OF 1

FIGURE 5

NOTE:
- NUMBERS SHOWN IN THIS PLATE ARE IN UNITS OF FEET UNLESS INDICATED OTHERWISE.
- SOIL PROFILES SHOWN HEREIN ARE INTERPOLATED FROM AVAILABLE BORING RECORDS.
- SOIL PROFILE BOUNDARIES DO NOT NECESSARILY INDICATE ABRUPT CHANGE IN SOIL TEXTURES.







DRAWING NO.	SHEET NO.
FIGURE 5	1 OF 1

PROJECT NUMBER
G07061.0

CHKD. BY: E. CALDWELL
DRWN. BY: M. CLEMENT
DATE: 8/17/2007
SCALE: AS SHOWN

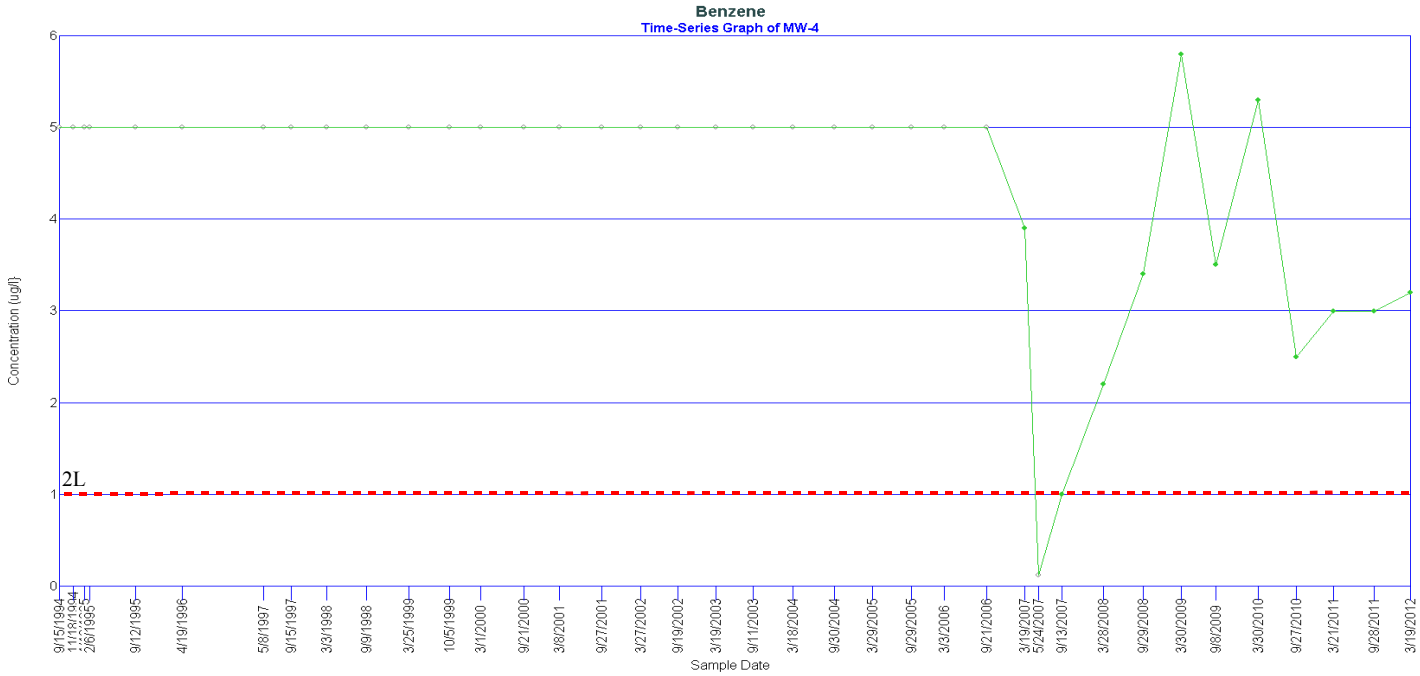
DESCRIPTION	REV.	BY	DATE

CROSS-SECTION

GREENE COUNTY
CONSTRUCTION & DEMOLITION
LANDFILL FACILITY REVISION
GREENE COUNTY, NORTH CAROLINA

Municipal Services Engineering Company, P.A.
P.O. BOX 97 GARNER, N.C. 27529 (919) 772-5393
P.O. BOX 349 BOONE, N.C. 28607 (828) 262-1767
P.O. BOX 278 MOREHEAD CITY, N.C. 28557 (252) 726-9481

Figure 6
Time-Series Graphs of VOCs Recently Detected Above 2L Standard
September 15, 1994 through March 19, 2012



Non-Detects represented at detection limit which decreased from PQL to MDL on March 19, 2007 event.
Benzene and Chloroethene in MW-4 were the only VOCs detected above 2L Standard since September 27, 2010.

APPENDICES

Appendix A

WELL LOGS

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT
DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION
P.O. BOX 27687 - RALEIGH, N.C. 27611, PHONE (919) 733-5083

FOR OFFICE USE ONLY

Quad. No. _____ Serial No. _____
Lat. _____ Long. _____ Pc _____
Minor Basin _____
Basin Code _____
Header Ent. _____ GW-1 Ent. _____

PZ-1
WELL CONSTRUCTION RECORD

DRILLING CONTRACTOR Law Engineering
DRILLER REGISTRATION NUMBER 332

STATE WELL CONSTRUCTION PERMIT NUMBER: _____

1. WELL LOCATION: (Show sketch of the location below)
Nearest Town: Snow Hill, N.C.
(Road, Community, or Subdivision and Lot No.)

County: Greene County

2. OWNER Greene County
ADDRESS P.O. Box 5 (Street or Route No.)
Snow Hill (City or Town) N.C. (State) 28580 (Zip Code)

3. DATE DRILLED Nov 19, 81 USE OF WELL Monitoring
4. TOTAL DEPTH 19.0' CUTTINGS COLLECTED ☐ Yes ☒ No
5. DOES WELL REPLACE EXISTING WELL? ☐ Yes ☒ No
6. STATIC WATER LEVEL: 11.0 FT. ☐ above ☒ below ground level TOP OF CASING.
TOP OF CASING IS _____ FT. ABOVE LAND SURFACE.
7. YIELD (gpm): - METHOD OF TEST -
8. W R ZONES (depth): 11.0 -
9. CHLORINATION: Type - Amount -
10. CASING:

	Depth From	To	Diameter	Wall Thickness or Weight/Ft.	Material
	0	9	2"	40 sch	PVC

11. GROUT:

	Depth From	To	Material	Method
	0	7	Type I	pump
	7	8	[illegible]	

12. SCREEN:

	Depth From	To	Diameter	Slot Size	Material
	9'	19'	2"	.010 in.	PVC

13. GRAVEL PACK:

	Depth From	To	Size	Material
	8'	19.0'	20-28	Torpedo sand

14. REMARKS: _____

DRILLING LOG

Depth From	To	Formation Description

If additional space is needed use back of form.

LOCATION SKETCH
(Show direction and distance from at least two State Roads, or other map reference points)

attached map

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15 NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Floyd C Cox — 9-21-89
SIGNATURE OF CONTRACTOR OR AGENT — DATE

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT
DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION
P.O. BOX 27687 - RALEIGH, N.C. 27611, PHONE (919) 733-5083

FOR OFFICE USE ONLY

Quad. No. _____ Serial No. _____
Lat. _____ Long. _____ Pc _____
Minor Basin _____
Basin Code _____
Header Ent. _____ GW-1 Ent. _____

PZ-2
WELL CONSTRUCTION RECORD

DRILLING CONTRACTOR Law Engineering
DRILLER REGISTRATION NUMBER 332

STATE WELL CONSTRUCTION PERMIT NUMBER: ?

1. WELL LOCATION: (Show sketch of the location below)
Nearest Town: Snow Hill, N.C.
(Road, Community, or Subdivision and Lot No.)

County: Greene County

2. OWNER Greene County
ADDRESS P.O. Box 5 (Street or Route No.)
Snow Hill (City or Town) N.C. (State) 28580 (Zip Code)

3. DATE DRILLED Nov 19, 81 USE OF WELL Monitoring
4. TOTAL DEPTH 20.0' CUTTINGS COLLECTED ☐ Yes ☒ No
5. DOES WELL REPLACE EXISTING WELL? ☐ Yes ☒ No
6. STATIC WATER LEVEL: 13 FT. ☐ above ☒ below TOP OF CASING. ground level
TOP OF CASING IS _____ FT. ABOVE LAND SURFACE.
7. YIELD (gpm): _____ METHOD OF TEST _____
8. WATER ZONES (depth): 13.0' —
9. CHLORINATION: Type _____ Amount _____

Depth From	Depth To	DRILLING LOG Formation Description

If additional space is needed use back of form.

10. CASING:

	Depth From	Depth To	Diameter	Wall Thickness or Weight/Ft.	Material
	0'	10.0 Ft.	2"	40 sch	PVC
		Ft.			
		Ft.			

11. GROUT:

	Depth From	Depth To	Material	Method
	0	7.0' Ft.	Type I	pump
	7	8 Ft.	Bentonite	

12. SCREEN:

	Depth From	Depth To	Diameter	Slot Size	Material
	10.0'	20.0' Ft.	2" in.	.010 in.	PVC
		Ft.	in.	in.	
		Ft.	in.	in.	

13. GRAVEL PACK:

	Depth From	Depth To	Size	Material
	8.0'	20.0' Ft.	20-28	Torpedo sand
		Ft.		

LOCATION SKETCH
(Show direction and distance from at least two State Roads, or other map reference points)

attached map

14. REMARKS:

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15 NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Floyd Clay — SIGNATURE OF CONTRACTOR OR AGENT
9-21-89 — DATE

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT
DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION
P.O. BOX 27687 - RALEIGH, N.C. 27611, PHONE (919) 733-5083

FOR OFFICE USE ONLY

Quad. No. _____ Serial No. _____
Lat. _____ Long. _____ Pc _____
Minor Basin _____
Basin Code _____
Header Ent. _____ GW-1 Ent. _____

PZ-3
WELL CONSTRUCTION RECORD

DRILLING CONTRACTOR Law Engineering
DRILLER REGISTRATION NUMBER 332

STATE WELL CONSTRUCTION PERMIT NUMBER: ?

1. WELL LOCATION: (Show sketch of the location below)
Nearest Town: Snow Hill, N.C. County: Greene County
(Road, Community, or Subdivision and Lot No.)

2. OWNER Greene County
ADDRESS P.O. Box 5 (Street or Route No.)
Snow Hill (City or Town) N.C. (State) 28580 (Zip Code)

3. DATE DRILLED Nov 19, 81 USE OF WELL Monitoring
4. TOTAL DEPTH 10.0' CUTTINGS COLLECTED ☐ Yes ☒ No
5. DOES WELL REPLACE EXISTING WELL? ☐ Yes ☒ No
6. STATIC WATER LEVEL: 3 FT. ☐ above ☒ below ground level TOP OF CASING.
TOP OF CASING IS _____ FT. ABOVE LAND SURFACE.
7. YIELD (gpm): - METHOD OF TEST -
8. WATER ZONES (depth): 6.0' -

Does not agree with field measurements. Well is ≈ 17' deep from top of riser.

9. CHLORINATION: Type - Amount -

10. CASING:

	Depth From	To	Diameter	Wall Thickness or Weight/Ft.	Material
	0	5.0	2"	40 sch	PVC

11. GROUT:

	Depth From	To	Material	Method
	0'	3	Type I	pump
	3	4	Bentonite	

12. SCREEN:

	Depth From	To	Diameter	Slot Size	Material
	5.0	10.0	2"	.010	PVC

13. GRAVEL PACK:

	Depth From	To	Size	Material
	4.0'	10.0	20-28	Torpedo sand

14. REMARKS:

DRILLING LOG

Depth From	To	Formation Description

If additional space is needed use back of form.

LOCATION SKETCH
(Show direction and distance from at least two State Roads, or other map reference points)

attached map

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15 NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

SIGNATURE OF CONTRACTOR OR AGENT DATE

North Carolina - Department of Environment, Health, and Natural Resources
Division of Environmental Management - Groundwater Section
P.O. Box 29535 - Raleigh, N.C. 27626-0535
Phone (919) 733-3221

FOR OFFICE USE ONLY
QUAD. NO. _____ SERIAL NO. _____
Lat. _____ Long. _____ RO _____
Minor Basin _____
Basin Code _____
Header Ent. _____ GW-1 Ent. _____

WELL CONSTRUCTION RECORD

DRILLING CONTRACTOR: GAI Consultants

DRILLER REGISTRATION NUMBER: 446

STATE WELL CONSTRUCTION PERMIT NUMBER: N/A

1. WELL LOCATION: (Show sketch of the location below)
Nearest Town: Wootens Crossroads County: Greene
SR 1239
(Road, Community, or Subdivision and Lot No.)

2. OWNER Greene County Attn: Jessie Tyndall
ADDRESS 229 Kingold Blvd
(Street or Route No.)
Snow Hill NC 28580
City or Town State Zip Code

3. DATE DRILLED 8-26-94 USE OF WELL Monitoring
4. TOTAL DEPTH 20.9'
5. CUTTINGS COLLECTED YES [X] NO [ ]
6. DOES WELL REPLACE EXISTING WELL? YES [X] NO [ ]
7. STATIC WATER LEVEL Below Top of Casing: 5.63 FT.
(Use "+" if Above Top of Casing)
8. TOP OF CASING IS 2.0 FT. Above Land Surface*
* Casing Terminated at/or below land surface is illegal unless a variance is issued in accordance with 15A NCAC 2C .0118
9. YIELD (gpm): N/A METHOD OF TEST _____
10. WATER ZONES (depth): N/A
11. CHLORINATION: Type N/A Amount _____
12. CASING:

	Depth From	Depth To	Diameter	Wall Thickness or Weight/Ft.	Material
	+2.0	3.2	2"	Sch 40	PVC

13. GROUT:

	Depth From	Depth To	Material	Method
	0	1.0	Cement	Grout
	1.0	2.0	Bentonite	Pellets

14. SCREEN:

	Depth From	Depth To	Diameter	Slot Size	Material
	3.2	18.2	2 in.	.010 in.	PVC
			in.	in.	
			in.	in.	

15. SAND/GRAVEL PACK:

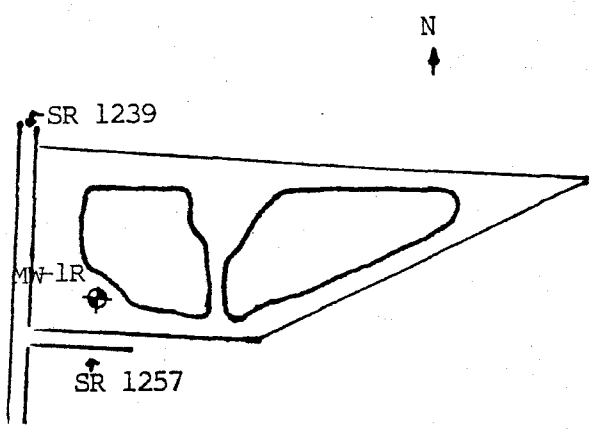
	Depth From	Depth To	Size	Material
	2.0	20.9		Silica

16. REMARKS: Replacement for Monitoring Well 1(Not abandoned) MW-1R 3.63' water level after 24 hours

DEPTH From	DEPTH To	DRILLING LOG Formation Description
3.5	5.5	Orange mottled gray clay down grades silty clay
8.5	10.5	Gray faintly mottled sandy clay down sand decreases
13.5	15.5	Red gray fine sandy clay
18.5	20.9	Faint or mottled gray sandy clay

If additional space is needed use back of form

LOCATION SKETCH
(Show direction and distance from at least two State Roads, or other map reference points)



I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Wendell W. Parks 8-26-94
SIGNATURE OF CONTRACTOR OR AGENT DATE

GW-1 REV 9/91
Submit original to Division of Environmental Management and copy to well owner

North Carolina - Department of Environment, Health, and Natural Resources
Division of Environmental Management - Groundwater Section
P.O. Box 29535 - Raleigh, N.C. 27626-0535
Phone (919) 733-3221

FOR OFFICE USE ONLY
QUAD. NO. _____ SERIAL NO. _____
Lat. _____ Long. _____ RO _____
Minor Basin _____
Basin Code _____
Header Ent. _____ GW-1 Ent. _____

WELL CONSTRUCTION RECORD

DRILLING CONTRACTOR: GAI Consultants

DRILLER REGISTRATION NUMBER: 446

STATE WELL CONSTRUCTION PERMIT NUMBER: N/A

1. WELL LOCATION: (Show sketch of the location below)
Nearest Town: Wootens Crossroads County: Greene
SR 1239
(Road, Community, or Subdivision and Lot No.)

2. OWNER Greene County Attn: Jessie Tyndall
ADDRESS 229 Kingold Blvd
(Street or Route No.)
Snow Hill NC 28580
City or Town State Zip Code

3. DATE DRILLED 8-26-94 USE OF WELL Monitoring
4. TOTAL DEPTH 26.0
5. CUTTINGS COLLECTED YES [X] NO [ ]
6. DOES WELL REPLACE EXISTING WELL? YES [ ] NO [X]
7. STATIC WATER LEVEL Below Top of Casing: 19.74 FT.
(Use "+" if Above Top of Casing)
8. TOP OF CASING IS 2.74 FT. Above Land Surface*
* Casing Terminated at/or below land surface is illegal unless a variance is issued in accordance with 15A NCAC 2C .0118
9. YIELD (gpm): N/A METHOD OF TEST _____
10. WATER ZONES (depth): _____
11. CHLORINATION: Type N/A Amount _____
12. CASING:

	Depth From	Depth To	Diameter	Wall Thickness or Weight/Ft.	Material
	+2.74	9.1	2"	Sch 40	PVC

13. GROUT:

	Depth From	Depth To	Material	Method
	0	6.3	Cement	Grout
	6.3	7.5	Bentonite	Pellet

14. SCREEN:

	Depth From	Depth To	Diameter	Slot Size	Material
	9.1	24.1	2"	.010	PVC

15. SAND/GRAVEL PACK:

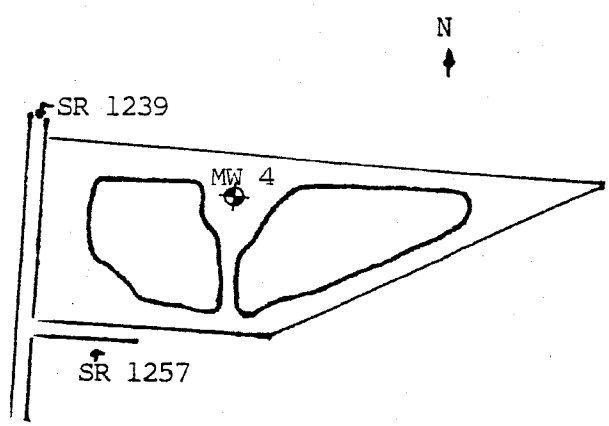
	Depth From	Depth To	Size	Material
	7.5	26.0		Silica

16. REMARKS: Monitoring Well 4 17.15' - water level after 24 hours

DEPTH From - To	DRILLING LOG Formation Description
3.5 - 5.5	Red orange mottled gray clay few f sand
8.5 - 10.5	Orange mot gr silty clay
13.5 - 15.5	Red sandy clay down thin seams of f sand
18.5 - 20.5	Red sandy clay down rd sand w/thin seams of clay
23.5 - 25.5	Orange gr silty clay w/few f sand down grades lt gr clay
26.0	Bottom of boring

If additional space is needed use back of form

LOCATION SKETCH
(Show direction and distance from at least two State Roads, or other map reference points)



I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Wendell W. Parker 10-6-94
SIGNATURE OF CONTRACTOR OR AGENT DATE

GW-1 REV 9/91
Submit original to Division of Environmental Management and copy to well owner

North Carolina - Department of Environment, Health, and Natural Resources
Division of Environmental Management - Groundwater Section
P.O. Box 29535 - Raleigh, N.C. 27626-0535
Phone (919) 733-3221

FOR OFFICE USE ONLY
QUAD. NO. _____ SERIAL NO. _____
Lat. _____ Long. _____ RO _____
Minor Basin _____
Basin Code _____
Header Ent. _____ GW-1 Ent. _____

WELL CONSTRUCTION RECORD

DRILLING CONTRACTOR: GAI Consultants

DRILLER REGISTRATION NUMBER: 446

STATE WELL CONSTRUCTION PERMIT NUMBER: N/A

1. WELL LOCATION: (Show sketch of the location below)
Nearest Town: Wootens Crossroads County: Greene
SR 1239
(Road, Community, or Subdivision and Lot No.)

2. OWNER Greene County Attn: Jessie Tyndall
ADDRESS 229 Kingold Blvd
(Street or Route No.)
Snow Hill NC 28580
City or Town State Zip Code

3. DATE DRILLED 8-28-94 USE OF WELL Monitoring
4. TOTAL DEPTH 30.4
5. CUTTINGS COLLECTED YES [X] NO [ ]
6. DOES WELL REPLACE EXISTING WELL? YES [ ] NO [X]
7. STATIC WATER LEVEL Below Top of Casing: 19.1 FT.
(Use "+" if Above Top of Casing)
8. TOP OF CASING IS 2.6 FT. Above Land Surface*

*Casing Terminated at/or below land surface is illegal unless a variance is issued in accordance with 15A NCAC 2C .0118

9. YIELD (gpm): N/A METHOD OF TEST _____
10. WATER ZONES (depth): _____
11. CHLORINATION: Type N/A Amount _____
12. CASING:

	Depth From	Depth To	Diameter	Wall Thickness or Weight/Ft.	Material
	+2.6	14	2"	Sch 40	PVC

13. GROUT:

	Depth From	Depth To	Material	Method
	0	11.5	Cement	Grout
	11.5	12.8	Bentonite	Pellets

14. SCREEN:

	Depth From	Depth To	Diameter	Slot Size	Material
	14	29.0	2 in.	.010 in.	PVC
			in.	in.	
			in.	in.	

15. SAND/GRAVEL PACK:

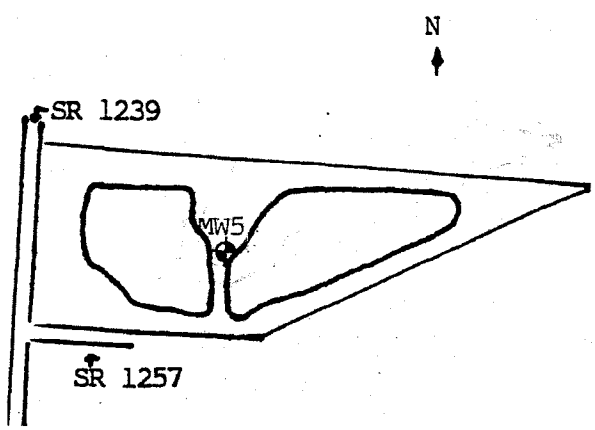
	Depth From	Depth To	Size	Material
	12.8	30.4		Silica

16. REMARKS: Monitoring Well 5 16.4' - water level after 24 hours

DEPTH From	DEPTH To	DRILLING LOG Formation Description
0	0.5	Tan silty clay
3.5	5.5	Faintly orange mot gr silty clay down abundan rd mot silty clay
8.5	10.5	Med gray f sandy clay
13.5	15.5	Red mot gr f sandy clay down abundant rd mot gr sandy clay
18.5	20.5	Red mot sandy clay down red sand
23.5	25.5	Orange sandy clay grades or sandy clay
28.5	30.4	Orange clayey sand down seams clay & clean sand

If additional space is needed use back of form

LOCATION SKETCH
(Show direction and distance from at least two State Roads, or other map reference points)



I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Wendell W. Park 8-28-94
SIGNATURE OF CONTRACTOR OR AGENT DATE

Submit original to Division of Environmental Management and copy to well owner

GW-1 REV. 9/91

North Carolina - Department of Environment, Health, and Natural Resources
Division of Environmental Management - Groundwater Section
P.O. Box 29535 - Raleigh, N.C. 27626-0535
Phone (919) 733-3221

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QUAD. NO. _____ SERIAL NO. _____
Lat. _____ Long. _____ RO _____
Minor Basin _____
Basin Code _____
Header Ent. _____ GW-1 Ent.

WELL CONSTRUCTION RECORD

DRILLING CONTRACTOR: GAI Consultants

DRILLER REGISTRATION NUMBER: 446

STATE WELL CONSTRUCTION PERMIT NUMBER: N/A

1. WELL LOCATION: (Show sketch of the location below)
Nearest Town: Wootens Crossroads County: Greene
SR 1239
(Road, Community, or Subdivision and Lot No.)

2. OWNER Greene County Attn: Jessie Tyndall
ADDRESS 229 Kingold Blvd
(Street or Route No.)
Snow Hill (City or Town) NC (State) 28580 (Zip Code)

3. DATE DRILLED 8-29-94 USE OF WELL Monitoring
4. TOTAL DEPTH 30.8
5. CUTTINGS COLLECTED YES [X] NO [ ]
6. DOES WELL REPLACE EXISTING WELL? YES [ ] NO [X]
7. STATIC WATER LEVEL Below Top of Casing: 9.37 FT.
(Use "+" if Above Top of Casing)
8. TOP OF CASING IS 2.87 FT. Above Land Surface*
* Casing Terminated at/or below land surface is illegal unless a variance is issued in accordance with 15A NCAC 2C .0118
9. YIELD (gpm): N/A METHOD OF TEST _____
10. WATER ZONES (depth): _____

DEPTH From - To	DRILLING LOG Formation Description
3.5 - 5.5	Orange mot gr silty clay w/f sand
8.5 - 10.5	Orange mot gr sandy clay down clay increase
13.5 - 15.5	Light gr f sandy clay down becomes mot clay content increases
18.5 - 20.5	Gray f sandy clay down few or mot
23.5 - 25.5	Med gr f sandy clay w/ thin seams f sand
28.5 - 30.8	Dark gray sandy clay

If additional space is needed use back of form

11. CHLORINATION: Type N/A Amount _____
12. CASING:

	Depth From	To	Ft.	Diameter	Wall Thickness or Weight/Ft.	Material
	+2.87	13.8		2"	Sch 40	PVC

13. GROUT:

	Depth From	To	Ft.	Material	Method
	0	10.5		Cement	Grout
	10.5	12.0		Bentonite	Pellet

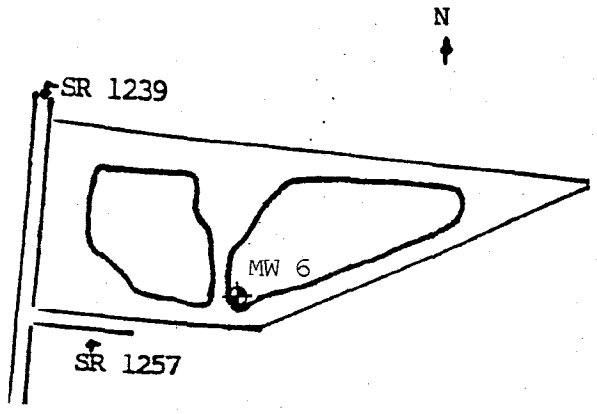
14. SCREEN:

	Depth From	To	Ft.	Diameter	Slot Size	Material
	13.8	28.8		2 in.	.010 in.	PVC

15. SAND/GRAVEL PACK:

	Depth From	To	Ft.	Size	Material
	12.0	30.8			Silica

LOCATION SKETCH
(Show direction and distance from at least two State Roads, or other map reference points)



16. REMARKS: Monitoring Well 6 6.48' - water level after 24 hours

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Wendell W. Parker 8-29-94
SIGNATURE OF CONTRACTOR OR AGENT DATE

Submit original to Division of Environmental Management and copy to well owner

GW-1 REV 9/91

MONITORING WELL 1R

PROJECT: Greene County Landfill
Wootens Crossroads, North Carolina
LOCATION: see Landfill Plans

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION	SPT VALUE
			Orange mottled gray silty clay	
5		X		7
			Gray fine sandy clay	
10		X		14
15		X	-grades red gray	13
20		X	-grades mottled gray	10
			End of Boring	
25				
30				
35				
40				
45				

COMPLETION DEPTH: 20.9 ft DATE: 8-26-94
DEPTH TO WATER: 1.1 ft while drilling, 3.63 ft after 24 hrs

MONITORING WELL 4

PROJECT: Greene County Landfill
Wootens Crossroads, North Carolina
LOCATION: see Landfill Plans

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION	SPT VALUE
			Red orange mottled gray clay, trace fine sand	
5		X		10
			Orange mottled gray silty clay	
10		X		9
			Red sandy clay, with thin fine sand seams	
15		X		7
20		X	-grades more sandy, with thin clay seams	14
			Orange gray silty clay, trace fine sand	
25		X	-grades light gray	4
			End of Boring	
30				
35				
40				
45				

COMPLETION DEPTH: 26.0 ft DATE: 8-26-94
DEPTH TO WATER: 17 ft while drilling, 17.15 ft after 24 hrs

MONITORING WELL 5

PROJECT: Greene County Landfill
Wootens Crossroads, North Carolina
LOCATION: see Landfill Plans

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION	SPT VALUE
			Tan silty clay	
5		X	-grades faintly orange mottled gray	8
			-grades red mottled	
			Gray fine sandy clay	
10		X		14
15		X	-grades red mottled gray	8
20		X	-with red sand seams	10
25		X	Orange clayey sand	8
30		X	-with seams of clay and fine sand	21
			End of Boring	
35				
40				
45				

COMPLETION DEPTH: 30.4 ft DATE: 8-28-94
DEPTH TO WATER: 16.5 ft while drilling, 16.4 ft after 24 hrs

MONITORING WELL 6

PROJECT: Greene County Landfill
Wootens Crossroads, North Carolina
LOCATION: see Landfill Plans

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION	SPT VALUE
			Orange mottled gray silty clay, trace fine sand	
5		X		9
			Orange mottled gray sandy clay	
10		X		12
15		X	-grades light gray	8
20		X	-grades gray	9
25		X	-grades with fine sand seams	6
30		X	-grades dark gray	5
			End of Boring	
35				
40				
45				

COMPLETION DEPTH: 30.8 ft DATE: 8-29-94
DEPTH TO WATER: 16 ft while drilling, 6.48 ft after 24 hrs

LOG OF BORING: MW-7

Greene County Closed Landfill **Project No. G07061.0**

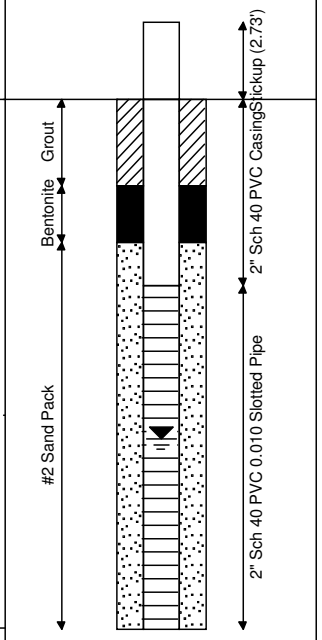
Drilling contractor: Derry's Well Drilling
Drill rig & method: 8" OD HSA w/SS
Logged by: J.Pfohl

Date started: 6/21/2007
Date ended: 6/21/2007
Completion depth: 18.50 ft
Stickup height: 2.73 ft

Surface elevation: 107.75 ft (MSL)
Top of pipe elevation: 110.48 ft (MSL)
Depth to water (TOB): 11.99 ft
Depth to water (24hrs): 11.88 ft

Depth (ft)	SPT (bpf)	Soil Type Symbol	Sample	Description of Material & Remarks
	14			Clay; gray, red-orange, mottled, extremely cohesive, moist
5	15			Clay; Same as above
10				Clay with Sand (CL) Brown, Gravel = 0.00%, Sand = 29.67%, Silt = 32.33%, Clay = 35%, LL = 35%, PL = 12%, PI = 23%
				Clay; transition from mottled to dark purple, red
	16			Clay; Dark purple red, very cohesive, uniform, moist
15				
20				Boring terminated at 18.5 feet
25				
30				
35				
40				
45				

Well Diagram



Municipal Engineering Services Company, P.A.
Operation/Construction Managers Civil/Sanitary EngineersEnvironmental Studies
PO Box 97, Garner, North Carolina 27529 (919) 772-5393PO Box 349, Boone, North Carolina 28607 (828) 262-1767

LOG OF BORING: MW-8

Greene County Closed Landfill **Project No. G07061.0**

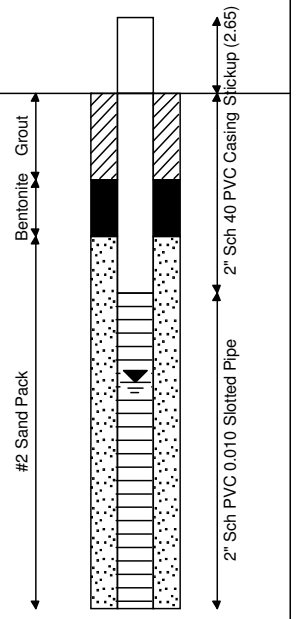
Drilling contractor: Derry's Well Drilling
Drill rig & method: 8" OD HSA w/ SS
Logged by: J. Pfohl

Date started: 6/21/2007
Date ended: 6/21/2007
Completion depth: 17.98 ft
Stickup height: 2.65 ft

Surface elevation: 108.71 ft (MSL)
Top of pipe elevation: 111.36 ft (MSL)
Depth to water (TOB): 10.15 ft
Depth to water (24hrs): 10.10 ft

Depth (ft)	SPT (bpf)	Soil Type Symbol	Sample	Description of Material & Remarks
	13			Clay; Gray, red-orange, mottled, cohesive, moist
5	12			Clay; Same as above, more gray, moist
				Clayey Sand (SC) Gray Orange, Gravel = 0.00%, Sand = 63.86%, Silt = 11.14%, Clay = 25%, LL = 32%, PL = 11%, PI = 21%
10	4			Clayey Sand; Orange, fine grained sand with few grey clay noduels, wet
15	3			Clayey Sand; Orange, fine grained sand, saturated
				Boring terminated at 18.0 feet
20				
25				
30				
35				
40				
45				

Well Diagram



Municipal Engineering Services Company, P.A.
Operation/Construction Managers Civil/Sanitary EngineersEnvironmental Studies
PO Box 97, Garner, North Carolina 27529 (919) 772-5393PO Box 349, Boone, North Carolina 28607 (828) 262-1767

Appendix B

RECEPTOR SURVEY

RECEPTOR SURVEY **GREENE COUNTY C & D LANDFILL - WALSTONBURG (40-02)**

Parcel ID	Owner	Taxed Acres	Street Address	Location Relative to Landfill	Use	Supply Wells / Water Intakes / Springs
200636	**GREENE COUNTY C & D LANDFILL**	**35**	**105 Landfill Rd**	**---**	**landfill**	**none observed or reported**
221550	Ham Farms	305	Fire Tower Rd	N, E	farming	none observed or reported
221635	Greene County	40	Landfill Rd	E	forest	none observed or reported
200400	Walston Farms	77	Fire Tower Rd	S	farming	none observed or reported
200016	Lewis, Evans, Becham	96	Fire Tower Rd	S	farming	none observed or reported
221549	Free Union Original FWB Church	1	Fire Tower Rd	S	church	none observed or reported
200635	Free Union Original FWB Church	1	Fire Tower Rd	S	church	none observed or reported
200628	Free Union Original FWB Church	0.5	Fire Tower Rd	S	church	none observed or reported
200629	Free Union Original FWB Church	1	Fire Tower Rd	S	cemetery	none observed or reported
200113	ND Beaver, D Dupuy	292	Fire Tower Rd	S	farming	none observed or reported
200025	Gertrude Beaman	10	Fire Tower Rd	S	forest, farming	none observed or reported
9005064	Tower Assets, Spectracite	1	Fire Tower Rd	S	tower	none observed or reported
200351	Ada Speight	52	Fire Tower Rd	SW	forest	none observed or reported
200089	Coley, Speight-Coley	50	Fire Tower Rd	SW	forest, farming	none observed or reported
203326	Bridgers, Cranz, Bridgers	333	Fire Tower Rd	SW, W *	forest, farming	none observed or reported
200625	Zachariah AME Zion Church	2	2244 Fire Tower Rd	SW	church	none observed or reported
200322	Jones	32	Fire Tower Rd	W	forest, farming	none observed or reported
200125	Ellis, Thompson	38	Fire Tower Rd	NW	forest, farming	none observed or reported
203331	Bynum	108	Fire Tower Rd	NW	forest, farming	none observed or reported
200420	Cunningham	56	Fire Tower Rd	NW, N *	farming	none observed or reported
200427	Betty Harrell	1	Fire Tower Rd	N	residence	none observed or reported
200160	Betty Harrell	1	Fire Tower Rd	N	residence	none observed or reported
204223	Ham Farms	14	Castoria Rd	N	farming	none observed or reported
200414	Relyea	23	Castoria Rd	N	farming	none observed or reported
223650	Ham Farms	62	Castoria Rd	NE	farming	none observed or reported
203330	Luther Beaman	100	Castoria Rd	NE	farming	none observed or reported

* comprised of two non-contiguous parcels

Subject area is located in Greene County, NC, between Walstonburg and Snow Hill. Entire area is serv

Prepared by Mark Durway/MESCO based on site visit, reconnaissance within 2000 ft radius of landfill, and interview with David Jones (Greene Co Public Works Director) on 9/21/12. According to David Jones, entire area within 2000 ft of landfill is served by South Greene Water Corportation.

MESCO Project: G11126.0

Appendix C

LAB REPORTS

AND

FIELD RECORDS

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#: 6005

GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL ,NC 28580

DATE COLLECTED: 09/29/08
DATE REPORTED : 10/22/08

REVIEWED BY:

PARAMETERS	MDL	SWSL	Upstream	Downstream	Well #4	Well #5	Well #6	Analysis Date	Analyst	Method Code
PH (field measurement), Units			5.7	5.7	5.6	4.7	4.9	09/29/08	BF	SM4500HB
Total Alkalinity, mg/l	1.0	1.0			114	14	3	09/30/08	TRB	SM2320B
Chloride, mg/l	5.0	5.0			9	8	7	10/01/08	MJN	SM4500-CLB
Total Dissolved Residue, mg/l	1.0	1.0			111	50	80	10/06/08	TRB	SM2540C
Sulfate, mg/l	5.0	250.0			11.6 J	--- U	11.6 J	10/07/08	TRB	SM4500-SO4
Antimony, ug/l	0.08	6.0	0.2 J	0.2 J	0.2 J	--- U	0.4 J	10/07/08	CMF	EPA200.8
Arsenic, ug/l	0.07	10.0	1.5 J	2.4 J	4.8 J	3.2 J	0.2 J	10/07/08	CMF	EPA200.8
Barium, ug/l	0.34	100.0	41.6 J	35.3 J	55.0 J	24.4 J	11.3 J	10/07/08	CMF	EPA200.8
Beryllium, ug/l	0.17	1.0	0.1 J	0.1 J	0.1 J	0.1 J	0.1 J	10/07/08	CMF	EPA200.8
Cadmium, ug/l	0.04	1.0	0.1 J	0.7 J	0.3 J	2	0.9 J	10/07/08	CMF	EPA200.8
Cobalt, ug/l	2.53	10.0	0.5 J	1.2 J	1.4 J	0.4 J	0.1 J	10/07/08	CMF	EPA200.8
Copper, ug/l	2.24	10.0	3.8 J	4.7 J	4.1 J	2.2 J	0.5 J	10/07/08	CMF	EPA200.8
Total Chromium, ug/l	1.38	10.0	2.7 J	2.8 J	0.7 J	0.2 J	0.2 J	10/07/08	CMF	EPA200.8
Iron, ug/l	14.0	300.0			21100	11055	658	10/10/08	ADD	SM3111B
Manganese, ug/l	0.50	50.0			171	32 J	9.2 J	09/30/08	LFJ	EPA200.7
Lead, ug/l	0.04	10.0	2.7 J	2.6 J	2.8 J	1.5 J	0.4 J	10/07/08	CMF	EPA200.8
Mercury, ug/l	0.13	0.20			0.11 J	0.09 J	0.05 J	10/07/08	CMF	EPA200.8
Nickel, ug/l	1.35	50.0	1.4 J	2.0 J	1.8 J	1.1 J	0.2 J	10/07/08	CMF	EPA200.8
Selenium, ug/l	0.14	10.0	0.3 J	0.7 J	1.1 J	0.2 J	--- U	10/07/08	CMF	EPA200.8
Silver, ug/l	2.32	10.0	--- U	--- U	0.1 J	0.1 J	0.1 J	10/07/08	CMF	EPA200.8
Thallium, ug/l	0.04	5.0	0.1 J	--- U	0.1 J	--- U	0.1 J	10/07/08	CMF	EPA200.8
Vanadium, ug/l	1.21	25.0	5.7 J	7.5 J	2.3 J	0.4 J	0.5 J	10/07/08	CMF	EPA200.8
Zinc, ug/l	1.86	10.0	19	45	4.0 J	6.3 J	8.2 J	10/07/08	CMF	EPA200.8
Conductivity (at 25c), uMhos	1.0	1.0	139	101	342	68	48	09/29/08	RJH	SM2510B
Temperature, °C			23	23	21	20	21	09/29/08	BF	SM2550B
Static Water Level, feet					20.95	20.48	9.40	09/29/08	BF	
Well Depth, feet					26.16	28.34	26.87	09/29/08	BF	

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#: 6005

GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL ,NC 28580

DATE COLLECTED: 09/29/08
DATE REPORTED : 10/22/08

REVIEWED BY:

PARAMETERS	MDL	SWSL	Well #7	Well #8	Well #1R	Piezometer #2	Trip Blank	Analysis Date	Analyst	Method Code
PH (field measurement), Units			4.6	4.3	4.5			09/29/08	BF	SM4500HB
Total Alkalinity, mg/l	1.0	1.0	--- U	--- U	1.0			09/30/08	TRB	SM2320B
Chloride, mg/l	5.0	5.0	5	6	103			10/01/08	MJN	SM4500-CLB
Total Dissolved Residue, mg/l	1.0	1.0	42	43	211			10/06/08	TRB	SM2540C
Sulfate, mg/l	5.0	250.0	6.3 J	--- U	10.9 J			10/07/08	TRB	SM4500-SO4
Antimony, ug/l	0.08	6.0	0.1 J	--- U				10/07/08	CMF	EPA200.8
Antimony, ug/l	0.08	6.0			--- U			10/03/08	LFJ	EPA200.8
Arsenic, ug/l	0.07	10.0	--- U	--- U				10/07/08	CMF	EPA200.8
Arsenic, ug/l	0.07	10.0			0.4 J			10/03/08	LFJ	EPA200.8
Barium, ug/l	0.34	100.0	43.6 J	40.5 J				10/07/08	CMF	EPA200.8
Barium, ug/l	0.34	100.0			124			10/03/08	LFJ	EPA200.8
Beryllium, ug/l	0.17	1.0	0.2 J	0.1 J				10/07/08	CMF	EPA200.8
Beryllium, ug/l	0.17	1.0			0.2 J			10/03/08	LFJ	EPA200.8
Cadmium, ug/l	0.04	1.0	0.5 J	0.8 J				10/07/08	CMF	EPA200.8
Cadmium, ug/l	0.04	1.0			0.3 J			10/03/08	LFJ	EPA200.8
Cobalt, ug/l	2.53	10.0	0.7 J	0.4 J				10/07/08	CMF	EPA200.8
Cobalt, ug/l	2.53	10.0			0.5 J			10/03/08	LFJ	EPA200.8
Copper, ug/l	2.24	10.0	1.0 J	2.3 J				10/07/08	CMF	EPA200.8
Copper, ug/l	2.24	10.0			2.3 J			10/03/08	LFJ	EPA200.8
Total Chromium, ug/l	1.38	10.0	0.4 J	0.2 J				10/07/08	CMF	EPA200.8
Total Chromium, ug/l	1.38	10.0			0.7 J			10/03/08	LFJ	EPA200.8
Iron, ug/l	14.0	300.0	--- U	91 J	502			10/10/08	ADD	SM3111B
Manganese, ug/l	0.50	50.0	6.0 J	2.3 J				09/30/08	LFJ	EPA200.7
Manganese, ug/l	0.50	50.0			24 J			10/03/08	LFJ	EPA200.8
Lead, ug/l	0.04	10.0	0.3 J	0.8 J				10/07/08	CMF	EPA200.8
Lead, ug/l	0.04	10.0			1.8 J			10/03/08	LFJ	EPA200.8
Mercury, ug/l	0.13	0.20	0.05 J	0.02 J				10/07/08	CMF	EPA200.8
Mercury, ug/l	0.13	0.20			0.04 J			10/03/08	LFJ	EPA200.8
Nickel, ug/l	1.35	50.0	1.0 J	0.9 J				10/07/08	CMF	EPA200.8
Nickel, ug/l	1.35	50.0			1.5 J			10/03/08	LFJ	EPA200.8
Selenium, ug/l	0.14	10.0	--- U	--- U				10/07/08	CMF	EPA200.8
Selenium, ug/l	0.14	10.0			0.5 J			10/03/08	LFJ	EPA200.8
Silver, ug/l	2.32	10.0	0.1 J	--- U				10/07/08	CMF	EPA200.8
Silver, ug/l	2.32	10.0			--- U			10/03/08	LFJ	EPA200.8
Thallium, ug/l	0.04	5.0	0.1 J	--- U				10/07/08	CMF	EPA200.8
Thallium, ug/l	0.04	5.0			0.2 J			10/03/08	LFJ	EPA200.8
Vanadium, ug/l	1.21	25.0	0.3 J	0.3 J				10/07/08	CMF	EPA200.8
Vanadium, ug/l	1.21	25.0			0.7 J			10/03/08	LFJ	EPA200.8
Zinc, ug/l	1.86	10.0	5.7 J	10				10/07/08	CMF	EPA200.8
Zinc, ug/l	1.86	10.0			7 J			10/03/08	LFJ	EPA200.8
Conductivity (at 25c), uMhos	1.0	1.0	55	42	416			09/29/08	RJH	SM2510B
Temperature, °C			21	20	22			09/29/08	BF	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

ID#: 6005

GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL ,NC 28580

DATE COLLECTED: 09/29/08
DATE REPORTED : 10/22/08

REVIEWED BY:

PARAMETERS	MDL	SWSL	Well #7	Well #8	Well #1R	Piezometer #2	Trip Blank	Analysis Date	Analyst	Method Code
Static Water Level, feet			15.65	13.83	4.38	18.63		09/29/08	BF	
Well Depth, feet			21.38	20.24	19.51			09/29/08	BF	

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

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Wastewater ID: 10

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PHONE (252) 756-6208
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ID#: 6005

GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL ,NC 28580

DATE COLLECTED: 09/29/08
DATE REPORTED : 10/22/08

REVIEWED BY:

PARAMETERS	MDL	SWSL	Equipment Blank		Analysis Date	Analyst	Method Code
Antimony, ug/l	0.08	6.0	---	U	10/07/08	CMF	EPA200.8
Arsenic, ug/l	0.07	10.0	---	U	10/07/08	CMF	EPA200.8
Barium, ug/l	0.11	100.0	---	U	10/07/08	CMF	EPA200.8
Beryllium, ug/l	0.06	1.0	---	U	10/07/08	CMF	EPA200.8
Cadmium, ug/l	0.04	1.0	---	U	10/07/08	CMF	EPA200.8
Cobalt, ug/l	0.03	10.0	---	U	10/07/08	CMF	EPA200.8
Copper, ug/l	0.05	10.0	0.3	J	10/07/08	CMF	EPA200.8
Total Chromium, ug/l	0.11	10.0	---	U	10/07/08	CMF	EPA200.8
Iron, ug/l	14.0	300.0	---	U	10/10/08	ADD	SM3111B
Manganese, ug/l	0.50	50.0	0.9	J	09/30/08	LFJ	EPA200.7
Lead, ug/l	0.04	10.0	0.1	J	10/07/08	CMF	EPA200.8
Mercury, ug/l	0.13	0.20	0.02	J	10/07/08	CMF	EPA200.8
Nickel, ug/l	1.35	50.0	---	U	10/07/08	CMF	EPA200.8
Selenium, ug/l	0.14	10.0	---	U	10/07/08	CMF	EPA200.8
Silver, ug/l	0.04	10.0	---	U	10/07/08	CMF	EPA200.8
Thallium, ug/l	0.04	5.0	---	U	10/07/08	CMF	EPA200.8
Vanadium, ug/l	1.21	25.0	0.1	J	10/07/08	CMF	EPA200.8
Zinc, ug/l	1.86	10.0	3.2	J	10/07/08	CMF	EPA200.8

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: GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL, NC 28580

CLIENT ID: 6005

ANALYST: MAO
DATE COLLECTED: 09/29/08
DATE ANALYZED: 10/09/08
DATE REPORTED: 10/22/08

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Upstream	Downstream	Well #4	Well #5	Well #6
1. Chloromethane	0.18	1.0	0.30 J	0.40 J	0.20 J	--- U	--- U
2. Vinyl Chloride	0.34	1.0	--- U	--- U	7.00	--- U	--- U
3. Bromomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.29	10.0	--- U	--- U	11.30	--- 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	4.50 J	11.50 J	103.00	2.90 J	1.90 J
8. Iodomethane	0.12	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.14	100.0	--- U	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.14	1.0	--- U	--- U	1.10	--- 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	1.20 J	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	--- U	--- U	11.60	0.40 J	--- U
15. 2-Butanone	0.85	100.0	1.80 J	4.10 J	7.20 J	--- U	1.00 J
16. Bromochloromethane	0.11	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.13	5.0	--- U	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.11	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.13	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.16	1.0	--- U	--- U	3.40	--- U	--- U
21. 1,2-Dichloroethane	0.12	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.13	1.0	--- U	--- U	0.50 J	--- U	--- U
23. 1,2-Dichloropropane	0.17	1.0	--- U	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.17	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	0.68	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.13	1.0	--- U	--- U	1.90	--- U	--- U
28. trans-1,3-Dichloropropene	0.14	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.20	1.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.00	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.14	3.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.13	3.0	--- U	--- U	1.50 J	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.14	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.16	1.0	--- U	--- U	0.20 J	--- U	--- U
37. Xylenes	0.48	5.0	--- U	--- U	--- U	--- U	--- U
38. Dibromomethane	0.17	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.16	1.0	--- U	0.20 J	--- U	--- U	--- U
40. Bromoform	0.11	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	3.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.06	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.21	1.0	--- U	--- U	5.90	--- U	--- U
44. 1,2-Dichlorobenzene	0.13	5.0	--- U	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.26	13.0	--- U	--- U	--- U	--- U	--- U
46. Acrylonitrile	1.49	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.0	--- U	--- U	--- U	--- U	--- U

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

Environment 1, 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: GREENE CO. LANDFILL
DAVID JONES
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SNOW HILL, NC 28580

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ANALYST: MAO
DATE COLLECTED: 09/29/08
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DATE REPORTED: 10/22/08

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Well #7	Well #8	Well #1R	Trip Blank	Equipment Blank
1. Chloromethane	0.18	1.0	0.30 J	--- U	0.20 J	--- 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	2.40 J	1.90 J	2.60 J	2.30 J	1.40 J
8. Iodomethane	0.12	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.14	100.0	--- U	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.14	1.0	--- U	--- U	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.13	5.0	--- U	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.16	5.0	--- U	--- U	--- U	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	--- U	--- U	--- U	--- U	--- U
15. 2-Butanone	0.85	100.0	1.20 J	--- U	1.60 J	--- U	--- U
16. Bromochloromethane	0.11	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.13	5.0	--- U	0.30 J	--- 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	--- U	--- U	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.14	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.20	1.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.00	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.14	3.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.13	3.0	--- U	--- 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	5.0	--- U	--- U	--- U	--- U	--- U
38. Dibromomethane	0.17	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.11	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	3.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.06	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.21	1.0	--- U	--- U	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.13	5.0	--- U	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.26	13.0	--- U	--- U	--- U	--- U	--- U
46. Acrylonitrile	1.49	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.0	--- U	--- U	--- U	--- U	--- U

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

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

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

CHAIN OF CUSTODY RECORD

CLIENT: 6005 **Week: 37**

GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL NC 28580

DISINFECTION: ☐ CHLORINE ☐ UV ☐ NONE ☐ _____

	Field pH	Alkalinity	Chloride	TDS	Sulfate	Metals	Conductivity	Temperature	Field Parameter	EPA 8260B	8260 Dup. 1	8260 Dup. 2				
CHLORINE NEUTRALIZED AT COLLECTION																
pH CHECK (LAB)						12				12	12	12				
CONTAINER TYPE, P/G	P	P	P	P	P	P	P	P		G	G	G				
CHEMICAL PRESERVATION	A	A	A	A	A	A	A	A		E	E	E				

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

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field pH	Alkalinity	Chloride	TDS	Sulfate	Metals	Conductivity	Temperature	Field Parameter	EPA 8260B	8260 Dup. 1	8260 Dup. 2
Upstream	9-29-08	1205		23	4	G					G	G	G		G	G	
Downstream	9-29-08	1150		23	4	G					G	G	G		G	G	
Well #4	9-29-08	0930		21	8	G	G	G	G	G	G	G	G	G	G	G	
Well #5	9-29-08	1020		20	8	G	G	G	G	G	G	G	G	G	G	G	
Well #6	9-29-08	1075		21	8	G	G	G	G	G	G	G	G	G	G	G	
Well #7	9-29-08	1105		21	8	G	G	G	G	G	G	G	G	G	G	G	
Well #8	9-29-08	0955		20	8	G	G	G	G	G	G	G	G	G	G	G	
Well #1R	9-29-08	1135		22	9	G	G	G	G	G	G	G	G	G	G	G	G
Piezometer #2	9-29-08	1145			1									G			
Trip Blank	9-29-08				2										G	G	
Equipment Blank	9-29-08				3						G				G	G	

PARAMETERS

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

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

SAMPLES COLLECTED BY: (Please Print) Bobby Fox

SAMPLES RECEIVED IN LAB AT 1.7 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bobby Fox	9-29-08 2:24	B [illegible]	9/29 2:24
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.

№ 167085

FORM #5

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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

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

ID#: 6005

GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL ,NC 28580

DATE COLLECTED: 03/30/09
DATE REPORTED : 04/21/09

REVIEWED BY:

PARAMETERS	MDL	SWSL	Upstream	Downstream	Well #4	Well #5	Well #6	Analysis Date	Analyst	Method Code
PH (field measurement), Units			5.9	6.0	5.6	5.0	4.8	03/30/09	RJH	SM4500HB
Total Alkalinity, mg/l	1.0	1.0			200	39	4	03/30/09	TRB	SM2320B
Chloride, mg/l	5.0	5.0			--- U	15	8	04/03/09	MJN	SM4500-CLB
Total Dissolved Residue, mg/l	1.0	1.0			234	84	70	03/31/09	TRB	SM2540C
Sulfate, mg/l	5.0	250.0			10.3 J	--- U	--- U	04/07/09	TRB	SM4500-SO4
Antimony, ug/l	0.06	6.0	--- U					04/01/09	CMF	EPA200.8
Antimony, ug/l	0.06	6.0		0.2 J	0.1 J	0.8 J	0.1 J	04/03/09	LFJ	EPA200.8
Arsenic, ug/l	0.17	10.0	0.4 J					04/01/09	CMF	EPA200.8
Arsenic, ug/l	0.17	10.0		1.2 J	4.2 J	1.3 J	--- U	04/03/09	RJH	EPA200.8
Barium, ug/l	0.04	100.0	20.7 J					04/01/09	CMF	EPA200.8
Barium, ug/l	0.04	100.0		32.1 J	56.1 J	34 J	15.1 J	04/03/09	LFJ	EPA200.8
Beryllium, ug/l	0.06	1.0	--- U					04/01/09	CMF	EPA200.8
Beryllium, ug/l	0.06	1.0		0.1 J	0.1 J	0.1 J	0.1 J	04/03/09	LFJ	EPA200.8
Cadmium, ug/l	0.04	1.0	0.1 J					04/01/09	CMF	EPA200.8
Cadmium, ug/l	0.04	1.0		0.1 J	0.2 J	0.1 J	--- U	04/03/09	LFJ	EPA200.8
Cobalt, ug/l	0.02	10.0	0.2 J					04/01/09	CMF	EPA200.8
Cobalt, ug/l	0.02	10.0		0.4 J	2.4 J	0.7 J	0.1 J	04/03/09	LFJ	EPA200.8
Copper, ug/l	0.04	10.0	1.2 J					04/01/09	CMF	EPA200.8
Copper, ug/l	0.04	10.0		5.9 J	2.3 J	0.4 J	0.3 J	04/03/09	LFJ	EPA200.8
Total Chromium, ug/l	0.10	10.0	1.0 J					04/01/09	CMF	EPA200.8
Total Chromium, ug/l	0.10	10.0		2.3 J	0.4 J	--- U	0.2 J	04/03/09	LFJ	EPA200.8
Iron, ug/l	14.0	300.0			84650	28175	908	04/06/09	ADD	SM3111B
Manganese, ug/l	0.50	50.0			167	19 J	10 J	04/03/09	LFJ	EPA200.7
Lead, ug/l	0.04	10.0	0.8 J					04/01/09	CMF	EPA200.8
Lead, ug/l	0.04	10.0		2.5 J	1.8 J	0.4 J	0.5 J	04/03/09	LFJ	EPA200.8
Mercury, ug/l	0.03	0.20			0.05 J	0.12 J	0.1 J	04/03/09	LFJ	EPA200.8
Nickel, ug/l	0.04	50.0	0.6 J					04/01/09	CMF	EPA200.8
Nickel, ug/l	0.04	50.0		1.9 J	2.3 J	0.9 J	0.2 J	04/03/09	LFJ	EPA200.8
Selenium, ug/l	0.12	10.0	--- U					04/01/09	CMF	EPA200.8
Selenium, ug/l	0.12	10.0		0.4 J	1.3 J	1.1 J	--- U	04/03/09	LFJ	EPA200.8
Silver, ug/l	0.04	10.0	--- U					04/01/09	CMF	EPA200.8
Silver, ug/l	0.04	10.0		0.1 J	0.1 J	0.1 J	--- U	04/03/09	LFJ	EPA200.8
Thallium, ug/l	0.03	5.0	--- U					04/01/09	CMF	EPA200.8
Thallium, ug/l	0.03	5.0		0.1 J	0.1 J	0.1 J	--- U	04/03/09	LFJ	EPA200.8
Vanadium, ug/l	0.28	25.0	1.8 J					04/01/09	CMF	EPA200.8
Vanadium, ug/l	0.28	25.0		5.1 J	4.3 J	1 J	1.6 J	04/03/09	LFJ	EPA200.8
Zinc, ug/l	0.14	10.0	10					04/01/09	CMF	EPA200.8
Zinc, ug/l	0.14	10.0		15	2.8 J	4.8 J	2.4 J	04/03/09	LFJ	EPA200.8
Conductivity (at 25c), uMhos	1.0	1.0	180	135	432	158	45	03/30/09	RJH	SM2510B
Temperature, °C			12	15	15	16	16	03/30/09	RJH	SM2550B
Static Water Level, feet					13.09	15.11	3.80	03/30/09	RJH	
Well Depth, feet					26.16	28.34	26.87	03/30/09	RJH	

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

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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

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

ID#: 6005

GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL ,NC 28580

DATE COLLECTED: 03/30/09
DATE REPORTED : 04/21/09

REVIEWED BY:

PARAMETERS	MDL	SWSL	Well #7	Well #8	Well #1R	Piezometer #2	Trip Blank	Analysis Date	Analyst	Method Code
PH (field measurement), Units			4.5	4.5	4.2			03/30/09	RJH	SM4500HB
Total Alkalinity, mg/l	1.0	1.0	--- U	--- U	--- U			03/30/09	TRB	SM2320B
Chloride, mg/l	5.0	5.0	5	--- U	210			04/03/09	MJN	SM4500-CLB
Total Dissolved Residue, mg/l	1.0	1.0	42	44	488			03/31/09	TRB	SM2540C
Sulfate, mg/l	5.0	250.0	--- U	--- U	--- U			04/07/09	TRB	SM4500-SO4
Antimony, ug/l	0.06	6.0	--- U	--- U	--- U			04/03/09	LFJ	EPA200.8
Arsenic, ug/l	0.17	10.0	--- U	--- U	--- U			04/03/09	RJH	EPA200.8
Barium, ug/l	0.04	100.0	39.5 J	38.3 J	327			04/03/09	LFJ	EPA200.8
Beryllium, ug/l	0.06	1.0	0.1 J	0.1 J	0.4 J			04/03/09	LFJ	EPA200.8
Cadmium, ug/l	0.04	1.0	--- U	--- U	0.2 J			04/03/09	LFJ	EPA200.8
Cobalt, ug/l	0.02	10.0	0.6 J	0.3 J	0.9 J			04/03/09	LFJ	EPA200.8
Copper, ug/l	0.04	10.0	0.5 J	0.3 J	1.9 J			04/03/09	LFJ	EPA200.8
Total Chromium, ug/l	0.10	10.0	--- U	--- U	0.2 J			04/03/09	LFJ	EPA200.8
Iron, ug/l	14.0	300.0	80 J	66 J	506			04/06/09	ADD	SM3111B
Manganese, ug/l	0.50	50.0	5 J					04/03/09	LFJ	EPA200.7
Manganese, ug/l	0.50	50.0		2 J	57			04/06/09	LFJ	EPA200.7
Lead, ug/l	0.04	10.0	0.3 J	0.5 J	2.5 J			04/03/09	LFJ	EPA200.8
Mercury, ug/l	0.03	0.20	0.03 J	--- U	--- U			04/03/09	LFJ	EPA200.8
Nickel, ug/l	0.04	50.0	0.8 J	0.4 J	2.4 J			04/03/09	LFJ	EPA200.8
Selenium, ug/l	0.12	10.0	--- U	--- U	0.2 J			04/03/09	LFJ	EPA200.8
Silver, ug/l	0.04	10.0	--- U	--- U	0.1 J			04/03/09	LFJ	EPA200.8
Thallium, ug/l	0.03	5.0	0.1 J	--- U	0.2 J			04/03/09	LFJ	EPA200.8
Vanadium, ug/l	0.28	25.0	1.1 J	0.7 J	1.2 J			04/03/09	LFJ	EPA200.8
Zinc, ug/l	0.14	10.0	4.2 J	2 J	9.6 J			04/03/09	LFJ	EPA200.8
Conductivity (at 25c), uMhos	1.0	1.0	48	37	770			03/30/09	RJH	SM2510B
Temperature, °C			20	26	32			03/30/09	RJH	SM2550B
Static Water Level, feet			10.56	6.74	3.33	10.20		03/30/09	RJH	
Well Depth, feet			21.38	20.24	19.51			03/30/09	RJH	

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

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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

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

ID#: 6005

GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL ,NC 28580

DATE COLLECTED: 03/30/09
DATE REPORTED : 04/21/09

REVIEWED BY:

PARAMETERS	MDL	SWSL	Equipment Blank	Analysis Date	Analyst	Method Code
Antimony, ug/l	0.06	6.0	1 J	04/03/09	LFJ	EPA200.8
Arsenic, ug/l	0.17	10.0	0.2 J	04/03/09	RJH	EPA200.8
Barium, ug/l	0.04	100.0	16 J	04/03/09	LFJ	EPA200.8
Beryllium, ug/l	0.06	1.0	--- U	04/03/09	LFJ	EPA200.8
Cadmium, ug/l	0.04	1.0	--- U	04/03/09	LFJ	EPA200.8
Cobalt, ug/l	0.02	10.0	0.1 J	04/03/09	LFJ	EPA200.8
Copper, ug/l	0.04	10.0	0.4 J	04/03/09	LFJ	EPA200.8
Total Chromium, ug/l	0.10	10.0	--- U	04/03/09	LFJ	EPA200.8
Iron, ug/l	14.0	300.0	--- U	04/06/09	ADD	SM3111B
Manganese, ug/l	0.50	50.0	1 J	04/06/09	LFJ	EPA200.7
Lead, ug/l	0.04	10.0	--- U	04/03/09	LFJ	EPA200.8
Mercury, ug/l	0.03	0.20	--- U	04/03/09	LFJ	EPA200.8
Nickel, ug/l	0.04	50.0	1.7 J	04/03/09	LFJ	EPA200.8
Selenium, ug/l	0.12	10.0	--- U	04/03/09	LFJ	EPA200.8
Silver, ug/l	0.04	10.0	--- U	04/03/09	LFJ	EPA200.8
Thallium, ug/l	0.03	5.0	--- U	04/03/09	LFJ	EPA200.8
Vanadium, ug/l	0.28	25.0	1 J	04/03/09	LFJ	EPA200.8
Zinc, ug/l	0.14	10.0	1.8 J	04/03/09	LFJ	EPA200.8

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: GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL, NC 28580

CLIENT ID: 6005

ANALYST: MAO
DATE COLLECTED: 03/30/09
DATE ANALYZED: 04/06/09
DATE REPORTED: 04/21/09

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Upstream	Downstream	Well #4	Well #5	Well #6
1. Chloromethane	0.18	1.0	--- U	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.34	1.0	--- U	--- U	10.20	2.30	--- U
3. Bromomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.29	10.0	--- U	--- U	18.30	4.40 J	--- U
5. Trichlorofluoromethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.14	5.0	--- U	--- U	--- U	--- U	--- U
7. Acetone	1.21	100.0	--- U	--- U	15.60 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	1.30	--- U	--- U
11. trans-1,2-Dichloroethene	0.13	5.0	--- U	--- U	0.20 J	--- U	--- U
12. 1,1-Dichloroethane	0.16	5.0	--- U	--- U	1.10 J	0.90 J	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	--- U	--- U	14.00	2.30 J	--- U
15. 2-Butanone	0.85	100.0	--- U	--- U	2.40 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	5.80	0.60 J	--- U
21. 1,2-Dichloroethane	0.12	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.13	1.0	--- U	--- U	0.80 J	--- U	--- U
23. 1,2-Dichloropropane	0.17	1.0	--- U	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.17	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	0.68	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.13	1.0	--- U	--- U	1.60	--- U	--- U
28. trans-1,3-Dichloropropene	0.14	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.20	1.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.00	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.14	3.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.13	3.0	--- U	--- U	2.20 J	0.30 J	--- U
35. 1,1,1,2-Tetrachloroethane	0.14	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.16	1.0	--- U	--- U	3.20	--- U	--- U
37. Xylenes	0.48	5.0	--- U	--- U	1.80 J	--- U	--- U
38. Dibromomethane	0.17	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.11	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	3.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.06	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.21	1.0	--- U	--- U	7.20	0.50 J	--- U
44. 1,2-Dichlorobenzene	0.13	5.0	--- U	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.26	13.0	--- U	--- U	--- U	--- U	--- U
46. Acrylonitrile	1.49	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.0	--- U	--- U	--- U	--- U	--- U

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

Environment 1, 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: GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL, NC 28580

CLIENT ID: 6005

ANALYST: MAO
DATE COLLECTED: 03/30/09
DATE ANALYZED: 04/06/09
DATE REPORTED: 04/21/09

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Well #7	Well #8	Well #1R	Trip Blank	Equipment Blank
1. Chloromethane	0.18	1.0	--- U	--- U	--- U	--- U	0.20 J
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	--- U	--- U	--- U	--- U	--- U
8. Iodomethane	0.12	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.14	100.0	--- U	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.14	1.0	--- U	--- U	--- U	--- 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	50.0	--- 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	--- U	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.11	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.13	5.0	--- U	0.30 J	--- 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	--- U	--- U	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.14	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.20	1.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.00	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.14	3.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.13	3.0	--- U	--- 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	5.0	--- U	--- U	--- U	--- U	--- U
38. Dibromomethane	0.17	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.11	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	3.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.06	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.21	1.0	--- U	--- U	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.13	5.0	--- U	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.26	13.0	--- U	--- U	--- U	--- U	--- U
46. Acrylonitrile	1.49	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.0	--- U	--- U	--- U	--- U	--- U

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

Environment 1, 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#: 6005

GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL ,NC 28580

DATE COLLECTED: 09/08/09
DATE REPORTED : 10/12/09

REVIEWED BY:

PARAMETERS	MDL	SWSL	Upstream	Downstream	Well #4	Well #5	Well #6	Analysis Date	Analyst	Method Code
PH (field measurement), Units			Missing	6.5	5.6	4.8	5.0	09/08/09	RJH	SM4500HB
Total Alkalinity, mg/l	1.0	1.0			136	6	3	09/09/09	TRB	SM2320B
Chloride, mg/l	5.0	5.0			8	10	7	09/10/09	MJN	SM4500-CLB
Total Dissolved Residue, mg/l	1.0	1.0			153	42	91	09/10/09	TRB	SM2540C
Sulfate, mg/l	5.0	250.0			10.8 J	11.0 J	10.3 J	09/14/09	TRB	SM426C
Antimony, ug/l	0.06	6.0	Missing	0.2 J	--- U	0.7 J	0.1 J	09/21/09	CMF	EPA200.8
Arsenic, ug/l	0.17	10.0	Missing	3.4 J	4.6 J	1.6 J	0.4 J	09/21/09	CMF	EPA200.8
Barium, ug/l	0.04	100.0	Missing	46.0 J	94.8 J	22.1 J	17.7 J	09/21/09	CMF	EPA200.8
Beryllium, ug/l	0.06	1.0	Missing	--- U	0.1 J	0.1 J	0.1 J	09/21/09	CMF	EPA200.8
Cadmium, ug/l	0.04	1.0	Missing	--- U	0.3 J	0.1 J	0.1 J	09/21/09	CMF	EPA200.8
Cobalt, ug/l	0.02	10.0	Missing	0.3 J	3.2 J	0.4 J	0.2 J	09/21/09	CMF	EPA200.8
Copper, ug/l	0.04	10.0	Missing	1.0 J	1.2 J	1.4 J	0.5 J	09/21/09	CMF	EPA200.8
Total Chromium, ug/l	0.10	10.0	Missing	1.1 J	0.3 J	--- U	0.8 J	09/21/09	CMF	EPA200.8
Iron, ug/l	14.0	300.0			60525	11585	2072	09/23/09	ADD	SM3111B
Manganese, ug/l	0.50	50.0			269	31 J	17 J	09/10/09	LFJ	EPA200.7
Lead, ug/l	0.04	10.0	Missing	3.6 J	1.2 J	1.2 J	1.2 J	09/21/09	CMF	EPA200.8
Mercury, ug/l	0.03	0.20			--- U	0.07 J	--- U	09/21/09	CMF	EPA200.8
Nickel, ug/l	0.04	50.0	Missing	0.6 J	1.7 J	0.6 J	0.8 J	09/21/09	CMF	EPA200.8
Selenium, ug/l	0.12	10.0	Missing	0.2 J	0.6 J	--- U	--- U	09/21/09	CMF	EPA200.8
Silver, ug/l	0.04	10.0	Missing	--- U	--- U	0.1 J	--- U	09/21/09	CMF	EPA200.8
Thallium, ug/l	0.03	5.0	Missing	--- U	0.1 J	0.1 J	--- U	09/21/09	CMF	EPA200.8
Vanadium, ug/l	0.28	25.0	Missing	4.7 J	3.5 J	0.5 J	1.9 J	09/21/09	CMF	EPA200.8
Zinc, ug/l	0.14	10.0	Missing	4.0 J	3.2 J	5.1 J	5.1 J	09/21/09	CMF	EPA200.8
Conductivity (at 25c), uMhos	1.0	1.0	Missing	228	308	74	50	09/08/09	RJH	SM2510B
Temperature, °C			Missing	23	21	19	20	09/08/09	RJH	SM2550B
Static Water Level, feet					20.63	20.08	12.32	09/08/09	RJH	
Well Depth, feet					26.16	28.34	26.87	09/08/09	RJH	
8260 (duplicate)			Missing							

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

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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

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

ID#: 6005

GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL ,NC 28580

DATE COLLECTED: 09/08/09
DATE REPORTED : 10/12/09

REVIEWED BY:

PARAMETERS	MDL	SWSL	Well #7	Well #8	Well #1R	Piezometer #2	Trip Blank	Analysis Date	Analyst	Method Code
PH (field measurement), Units			4.5	4.4	4.2			09/08/09	RJH	SM4500HB
Total Alkalinity, mg/l	1.0	1.0	--- U	--- U	--- U			09/09/09	TRB	SM2320B
Chloride, mg/l	5.0	5.0	7	6	117			09/10/09	MJN	SM4500-CLB
Total Dissolved Residue, mg/l	1.0	1.0	41	42	253			09/10/09	TRB	SM2540C
Sulfate, mg/l	5.0	250.0	10.5 J	10.8 J	10.2 J			09/14/09	TRB	SM426C
Antimony, ug/l	0.06	6.0	0.1 J	--- U				09/21/09	CMF	EPA200.8
Antimony, ug/l	0.06	6.0			0.1 J			09/10/09	LFJ	EPA200.8
Arsenic, ug/l	0.17	10.0	--- U	--- U				09/21/09	CMF	EPA200.8
Arsenic, ug/l	0.17	10.0			0.4 J			09/10/09	LFJ	EPA200.8
Barium, ug/l	0.04	100.0	40.9 J	33.6 J				09/21/09	CMF	EPA200.8
Barium, ug/l	0.04	100.0			138			09/10/09	LFJ	EPA200.8
Beryllium, ug/l	0.06	1.0	0.1 J	--- U				09/21/09	CMF	EPA200.8
Beryllium, ug/l	0.06	1.0			0.3 J			09/10/09	LFJ	EPA200.8
Cadmium, ug/l	0.04	1.0	0.1 J	--- U				09/21/09	CMF	EPA200.8
Cadmium, ug/l	0.04	1.0			0.1 J			09/10/09	LFJ	EPA200.8
Cobalt, ug/l	0.02	10.0	0.6 J	0.4 J				09/21/09	CMF	EPA200.8
Cobalt, ug/l	0.02	10.0			0.6 J			09/10/09	LFJ	EPA200.8
Copper, ug/l	0.04	10.0	0.6 J	0.3 J				09/21/09	CMF	EPA200.8
Copper, ug/l	0.04	10.0			1.2 J			09/10/09	CU	EPA200.8
Total Chromium, ug/l	0.10	10.0	0.2 J	--- U				09/21/09	CMF	EPA200.8
Total Chromium, ug/l	0.10	10.0			0.1 J			09/10/09	LFJ	EPA200.8
Iron, ug/l	14.0	300.0	140 J	79 J	153 J			09/23/09	ADD	SM3111B
Manganese, ug/l	0.50	50.0	6 J	3 J				09/10/09	LFJ	EPA200.7
Manganese, ug/l	0.50	50.0			28 J			09/17/09	LFJ	EPA200.7
Lead, ug/l	0.04	10.0	0.4 J	1.3 J				09/21/09	CMF	EPA200.8
Lead, ug/l	0.04	10.0			1.7 J			09/10/09	LFJ	EPA200.8
Mercury, ug/l	0.03	0.20	--- U	--- U				09/21/09	CMF	EPA200.8
Mercury, ug/l	0.03	0.20			0.04 J			09/10/09	LFJ	EPA200.8
Nickel, ug/l	0.04	50.0	0.9 J	0.5 J				09/21/09	CMF	EPA200.8
Nickel, ug/l	0.04	50.0			1.4 J			09/10/09	LFJ	EPA200.8
Selenium, ug/l	0.12	10.0	--- U	--- U				09/21/09	CMF	EPA200.8
Selenium, ug/l	0.12	10.0			0.5 J			09/10/09	LFJ	EPA200.8
Silver, ug/l	0.04	10.0	--- U	--- U				09/21/09	CMF	EPA200.8
Silver, ug/l	0.04	10.0			0.1 J			09/10/09	LFJ	EPA200.8
Thallium, ug/l	0.03	5.0	--- U	--- U				09/21/09	CMF	EPA200.8
Thallium, ug/l	0.03	5.0			0.3 J			09/10/09	LFJ	EPA200.8
Vanadium, ug/l	0.28	25.0	--- U	0.3 J				09/21/09	CMF	EPA200.8
Vanadium, ug/l	0.28	25.0			--- U			09/10/09	LFJ	EPA200.8
Zinc, ug/l	0.14	10.0	4.6 J	3.1 J				09/21/09	CMF	EPA200.8
Zinc, ug/l	0.14	10.0			7.1 J			09/10/09	LFJ	EPA200.8
Conductivity (at 25c), uMhos	1.0	1.0	51	41	463			09/08/09	RJH	SM2510B
Temperature, °C			20	20	21			09/08/09	RJH	SM2550B
Static Water Level, feet			15.30	13.67	7.17	19.73		09/08/09	RJH	
Well Depth, feet			21.38	20.24	19.51			09/08/09	RJH	

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

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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

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

ID#: 6005

GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL ,NC 28580

DATE COLLECTED: 09/08/09
DATE REPORTED : 10/12/09

REVIEWED BY:

PARAMETERS	MDL	SWSL	Equipment Blank		Analysis Date	Analyst	Method Code
Antimony, ug/l	0.06	6.0	---	U	09/21/09	CMF	EPA200.8
Arsenic, ug/l	0.17	10.0	---	U	09/21/09	CMF	EPA200.8
Barium, ug/l	0.04	100.0	0.1	J	09/21/09	CMF	EPA200.8
Beryllium, ug/l	0.06	1.0	---	U	09/21/09	CMF	EPA200.8
Cadmium, ug/l	0.04	1.0	---	U	09/21/09	CMF	EPA200.8
Cobalt, ug/l	0.02	10.0	---	U	09/21/09	CMF	EPA200.8
Copper, ug/l	0.04	10.0	0.1	J	09/21/09	CMF	EPA200.8
Total Chromium, ug/l	0.10	10.0	---	U	09/21/09	CMF	EPA200.8
Iron, ug/l	14.0	300.0	---	U	09/23/09	ADD	SM3111B
Manganese, ug/l	0.50	50.0	---	U	09/10/09	LFJ	EPA200.7
Lead, ug/l	0.04	10.0	---	U	09/21/09	CMF	EPA200.8
Mercury, ug/l	0.03	0.20	---	U	09/21/09	CMF	EPA200.8
Nickel, ug/l	0.04	50.0	---	U	09/21/09	CMF	EPA200.8
Selenium, ug/l	0.12	10.0	---	U	09/21/09	CMF	EPA200.8
Silver, ug/l	0.04	10.0	---	U	09/21/09	CMF	EPA200.8
Thallium, ug/l	0.03	5.0	---	U	09/21/09	CMF	EPA200.8
Vanadium, ug/l	0.28	25.0	---	U	09/21/09	CMF	EPA200.8
Zinc, ug/l	0.14	10.0	0.7	J	09/21/09	CMF	EPA200.8

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: GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL, NC 28580

CLIENT ID: 6005

ANALYST: MAO
DATE COLLECTED: 09/08/09
DATE ANALYZED: 09/17/09
DATE REPORTED: 10/12/09

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Downstream	Well #4	Well #5	Well #6	Well #7
1. Chloromethane	0.18	1.0	--- U	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.34	1.0	--- U	6.00	--- U	--- U	--- U
3. Bromomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.29	10.0	--- U	9.10 J	--- 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	1.30 J	--- U	--- U	--- U	--- U
8. Iodomethane	0.12	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.14	100.0	--- U	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.14	1.0	--- U	0.90 J	--- 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	1.80 J	--- U	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	--- U	9.10	0.70 J	--- U	--- U
15. 2-Butanone	0.85	100.0	--- U	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.11	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.13	5.0	--- U	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.11	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.13	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.16	1.0	--- U	3.50	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.12	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.13	1.0	--- U	0.30 J	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.17	1.0	--- U	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.17	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	0.68	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.13	1.0	--- U	2.80	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.14	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.20	1.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.00	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.14	3.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.13	3.0	--- U	1.30 J	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.14	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.16	1.0	--- U	0.20 J	--- U	--- U	--- U
37. Xylenes	0.48	5.0	--- U	--- U	--- U	--- U	--- U
38. Dibromomethane	0.17	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.11	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	3.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.06	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.21	1.0	--- U	4.50	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.13	5.0	--- U	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.26	13.0	--- U	--- U	--- U	--- U	--- U
46. Acrylonitrile	1.49	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.0	--- U	--- U	--- U	--- U	--- U

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

Environment 1, 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: GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL, NC 28580

CLIENT ID: 6005

ANALYST: MAO
DATE COLLECTED: 09/08/09
DATE ANALYZED: 09/17/09
DATE REPORTED: 10/12/09

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B

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

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

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

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

CHAIN OF CUSTODY RECORD

CLIENT: 6005 **Week:** 37

GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL NC 28580

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	TDS	Sulfate	Metals	Conductivity	Temperature	Field Parameter	EPA 8260B	8260 Dup. 1	8260 Dup. 2
CHLORINE NEUTRALIZED AT COLLECTION																	
pH CHECK (LAB)											<2				<2	<2	<2
CONTAINER TYPE, P/G						P	P	P	P	P	P	P	P		G	G	G
CHEMICAL PRESERVATION						A	A	A	A	A	A	A	A		E	E	E
Upstream					4	G					G	G	G		G	G	
Downstream	09 08 09	1100		23	4	G					G	G	G		G	G	
Well #4	09 08 09	0925		21	8	G	G	G	G	G	G	G	G	G	G	G	
Well #5	09 08 09	1000		19	8	G	G	G	G	G	G	G	G	G	G	G	
Well #6	09 08 09	1020		20	8	G	G	G	G	G	G	G	G	G	G	G	
Well #7	09 08 09	0940		20	8	G	G	G	G	G	G	G	G	G	G	G	
Well #8	09 08 09	0925		20	8	G	G	G	G	G	G	G	G	G	G	G	
Well #1R	09 08 09	1030		21	9	G	G	G	G	G	G	G	G	G	G	G	G
Piezometer #2	09 08 09				1									G			
Trip Blank					2										G	G	
Equipment Blank	09 08 09				3						G				G	G	

PARAMETERS

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

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

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

SAMPLES COLLECTED BY: (Please Print) [illegible]

SAMPLES RECEIVED IN LAB AT 0.3 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob Hoge	09 0809	[illegible]	9/8 1:05
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS: UPSTREAM 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.

№ 182031

FORM #5

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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

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

ID#: 6005

GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL ,NC 28580

DATE COLLECTED: 03/30/10
DATE REPORTED : 04/15/10

REVIEWED BY:

PARAMETERS	MDL	SWSL	Upstream	Downstream	Well #4	Well #5	Well #6	Analysis Date	Analyst	Method Code
PH (field measurement), Units			5.68	5.93	5.85	4.92	4.86	03/30/10	RJH	SM4500HB
Antimony, ug/l	0.22	6.0	--- U	0.5 J	--- U	--- U	--- U	04/07/10	CMF	EPA200.8
Arsenic, ug/l	0.04	10.0	0.2 J	0.9 J	0.2 J	0.5 J	0.2 J	04/07/10	CMF	EPA200.8
Barium, ug/l	0.03	100.0	16.5 J	23.7 J	193	34.9 J	19.8 J	04/07/10	CMF	EPA200.8
Beryllium, ug/l	0.02	1.0	--- U	0.1 J	0.2 J	0.1 J	0.1 J	04/07/10	CMF	EPA200.8
Cadmium, ug/l	0.02	1.0	--- U	0.1 J	0.2 J	0.1 J	--- U	04/07/10	CMF	EPA200.8
Cobalt, ug/l	0.10	10.0	0.1 J	0.3 J	0.6 J	0.6 J	0.2 J	04/07/10	CMF	EPA200.8
Copper, ug/l	0.03	10.0	1.2 J	5.4 J	2.1 J	0.3 J	0.1 J	04/07/10	CMF	EPA200.8
Total Chromium, ug/l	0.03	10.0	1.0 J	1.6 J	0.4 J	--- U	1.0 J	04/07/10	CMF	EPA200.8
Lead, ug/l	0.01	10.0	0.8 J	1.9 J	1.7 J	0.4 J	1.5 J	04/07/10	CMF	EPA200.8
Nickel, ug/l	0.05	50.0	0.2 J	1.2 J	1.3 J	0.6 J	--- U	04/07/10	CMF	EPA200.8
Selenium, ug/l	0.32	10.0	--- U	--- U	--- U	0.6 J	--- U	04/07/10	CMF	EPA200.8
Silver, ug/l	0.03	10.0	0.1 J	0.1 J	--- U	0.1 J	--- U	04/07/10	CMF	EPA200.8
Thallium, ug/l	0.05	5.0	--- U	--- U	--- U	--- U	--- U	04/07/10	CMF	EPA200.8
Vanadium, ug/l	0.03	25.0	1.7 J	3.1 J	0.6 J	--- U	1.8 J	04/07/10	CMF	EPA200.8
Zinc, ug/l	0.08	10.0	7.7 J	13	6.4 J	4.6 J	4.9 J	04/07/10	CMF	EPA200.8
Turbidity, NTU	1.0	1.0	27.5	29.9	13.1	31.0	65.5	03/30/10	RJH	SM2130B
Conductivity (at 25c), uMhos	1.0	1.0	68	116	393	106	42	03/30/10	RJH	SM2510B
Dissolved Oxygen, mg/l			2.05	8.54	0.57	0.98	0.91	03/30/10	RJH	SM4500OG
Temperature, °C			13.46	14.62	14.78	16.17	14.08	03/30/10	RJH	SM2550B
Static Water Level, feet					11.98	14.42	9.06	03/30/10	RJH	
Well Depth, feet					26.16	28.34	26.87	03/30/10	RJH	
ORP, mv			210.1	214.1	-30.2	115.8	209.8	03/30/10	RJH	SM2580B

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#: 6005

GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL ,NC 28580

DATE COLLECTED: 03/30/10
DATE REPORTED : 04/15/10

REVIEWED BY:

PARAMETERS	MDL	SWSL	Well #7	Well #8	Well #1R	Piezometer #2	Equipment Blank	Analysis Date	Analyst	Method Code
PH (field measurement), Units			4.40	4.32	4.72			03/30/10	RJH	SM4500HB
Antimony, ug/l	0.22	6.0	--- U	--- U	--- U		--- U	04/07/10	CMF	EPA200.8
Arsenic, ug/l	0.04	10.0	--- U	--- U	2.9 J		--- U	04/07/10	CMF	EPA200.8
Barium, ug/l	0.03	100.0	37.8 J	32.6 J	49.5 J		0.2 J	04/07/10	CMF	EPA200.8
Beryllium, ug/l	0.02	1.0	0.1 J	0.1 J	0.1 J		--- U	04/07/10	CMF	EPA200.8
Cadmium, ug/l	0.02	1.0	--- U	--- U	0.1 J		--- U	04/07/10	CMF	EPA200.8
Cobalt, ug/l	0.10	10.0	0.6 J	0.3 J	2.1 J		--- U	04/07/10	CMF	EPA200.8
Copper, ug/l	0.03	10.0	1.7 J	9.2 J	2.4 J		0.4 J	04/07/10	CMF	EPA200.8
Total Chromium, ug/l	0.03	10.0	0.2 J	--- U	0.4 J		0.1 J	04/07/10	CMF	EPA200.8
Lead, ug/l	0.01	10.0	0.5 J	1.2 J	1.5 J		--- U	04/07/10	CMF	EPA200.8
Mercury, ug/l	0.08	0.20					--- U	04/07/10	CMF	EPA200.8
Nickel, ug/l	0.05	50.0	0.6 J	24.0 J	1.3 J		--- U	04/07/10	CMF	EPA200.8
Selenium, ug/l	0.32	10.0	--- U	--- U	0.8 J		--- U	04/07/10	CMF	EPA200.8
Silver, ug/l	0.03	10.0	0.1 J	0.1 J	0.1 J		--- U	04/07/10	CMF	EPA200.8
Thallium, ug/l	0.05	5.0	--- U	0.1 J	--- U		--- U	04/07/10	CMF	EPA200.8
Vanadium, ug/l	0.03	25.0	--- U	--- U	1.8 J		--- U	04/07/10	CMF	EPA200.8
Zinc, ug/l	0.08	10.0	3.7 J	2.4 J	2.6 J		--- U	04/07/10	CMF	EPA200.8
Turbidity, NTU	1.0	1.0	2.66	1.95	5.26			03/30/10	RJH	SM2130B
Conductivity (at 25c), uMhos	1.0	1.0	44	32	578			03/30/10	RJH	SM2510B
Dissolved Oxygen, mg/l			7.24	8.50	1.66			03/30/10	RJH	SM45000G
Temperature, °C			15.24	16.35	13.22			03/30/10	RJH	SM2550B
Static Water Level, feet			9.72	6.16	3.01	9.21		03/30/10	RJH	
Well Depth, feet			21.38	20.24	19.51			03/30/10	RJH	
ORP, mv			314.0	322.4	252.0			03/30/10	RJH	SM2580B

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: GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL, NC 28580

CLIENT ID: 6005

ANALYST: MAO
DATE COLLECTED: 03/30/10
DATE REPORTED: 04/15/10

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	04/07/10 Upstream	04/07/10 Downstream	04/07/10 Well #4	04/07/10 Well #5	04/07/10 Well #6
	Date Analyzed:						
1. Chloromethane	0.77	1.0	--- U	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.63	1.0	--- U	--- U	10.30	2.90	--- U
3. Bromomethane	0.67	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.48	10.0	--- U	--- U	18.60	6.00 J	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U	--- U	--- U	--- U	--- U
7. Acetone	9.06	100.0	--- U	--- U	--- U	--- U	--- U
8. Iodomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.23	100.0	--- U	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.64	1.0	--- U	--- U	1.00	--- 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	1.60 J	0.90 J	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	--- U	--- U	13.70	2.10 J	--- 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	5.30	0.60 J	--- U
21. 1,2-Dichloroethane	0.27	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.23	1.0	--- U	--- U	0.60 J	--- 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	1.00	--- 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	1.80 J	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.21	1.0	--- U	--- U	4.10	--- U	--- U
37. Xylenes	0.68	5.0	--- U	--- U	2.10 J	--- 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	5.30	--- 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: GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL, NC 28580

CLIENT ID: 6005

ANALYST: MAO
DATE COLLECTED: 03/30/10
DATE REPORTED: 04/15/10

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	04/07/10 Well #7	04/07/10 Well #8	04/07/10 Well #1R	04/13/10 Equipment Blank	04/13/10 Trip Blank
	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	2.30 J	--- U	--- U	--- U
16. Bromochloromethane	0.27	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.25	5.0	--- U	0.40 J	--- 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, Inc.
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858

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

CHAIN OF CUSTODY RECORD

CLIENT: 6005 **Week: 10**

GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL NC 28580

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	DO	Temperature	Field Parameter	EPA 8260B	8260 Dup. 1	8260 Dup. 2	ORP
CHLORINE NEUTRALIZED AT COLLECTION																
pH CHECK (LAB)							L2						L2	L2	L2	
CONTAINER TYPE, P/G						P	P	P	P	P	P		G	G	G	P
CHEMICAL PRESERVATION						A	A	A	A	A	A		E	E	E	A
Upstream	03 30 10	1215		13.46	4	G	G	G	G	G	G		G	G		G
Downstream	03 30 10	1230		14.62	4	G	G	G	G	G	G		G	G		G
Well #4	03 30 10	1038		19.78	4	G	G	G	G	G	G	G	G	G		G
Well #5	03 30 10	1055		16.17	4	G	G	G	G	G	G	G	G	G		G
Well #6	03 30 10	1115		14.08	4	G	G	G	G	G	G	G	G	G		G
Well #7	03 30 10	0948		15.24	4	G	G	G	G	G	G	G	G	G		G
Well #8	03 30 10	0920		16.35	4	G	G	G	G	G	G	G	G	G		G
Well #1R	03 30 10	1200		13.22	5	G	G	G	G	G	G	G	G	G	G	G
Piezometer #2	03 30 10	1210			1							G				
Trip Blank					2								G	G		
Equipment Blank	03 30 10				3		G						G	G		

PARAMETERS

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

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

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

SAMPLES COLLECTED BY: (Please Print) Hope / Fox

SAMPLES RECEIVED IN LAB AT 0.2 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob Hope	03 30 10	B Quist	3/30 2:34
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

№ 200453

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#: 6005

GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL ,NC 28580

DATE COLLECTED: 09/27/10
DATE REPORTED : 10/22/10

REVIEWED BY:

PARAMETERS	MDL	SWSL	Upstream	Downstream	Well #4	Well #5	Well #6	Analysis Date	Analyst	Method Code
PH (field measurement), Units			Missing	6.22	5.69	4.81	4.90	09/27/10	RJH	SM4500HB
Chloride, mg/l	5.0	5.0			8	10	11	09/29/10	HLB	SM4500-CLB
Cyanide, ug/l	5.0	10.0			--- U	--- U	--- U	09/30/10	SEJ	SM4500 CN-
Antimony, ug/l	0.22	6.0	Missing	--- U	0.6 J	0.3 J	--- U	10/01/10	CMF	EPA200.8
Arsenic, ug/l	0.04	10.0	Missing	1.6 J		6.7 J		10/01/10	CMF	EPA200.8
Arsenic, ug/l	0.04	10.0			16		18	10/15/10	CMF	SM3113B
Barium, ug/l	0.03	100.0	Missing	34.1 J	803	25.0 J	532	10/01/10	CMF	EPA200.8
Beryllium, ug/l	0.02	1.0	Missing	0.1 J	8	0.1 J	4	10/01/10	CMF	EPA200.8
Cadmium, ug/l	0.02	1.0	Missing	0.1 J	3	0.4 J	0.8 J	10/01/10	CMF	EPA200.8
Cobalt, ug/l	0.10	10.0	Missing	0.4 J	4.7 J	0.4 J	3.6 J	10/01/10	CMF	EPA200.8
Copper, ug/l	0.03	10.0	Missing	3.3 J	9.2 J	3.8 J	3.6 J	10/01/10	CMF	EPA200.8
Total Chromium, ug/l	0.03	10.0	Missing	5.3 J	28	1.0 J	28	10/01/10	CMF	EPA200.8
Lead, ug/l	0.01	10.0	Missing	6.8 J	121	4.9 J	76	10/01/10	CMF	EPA200.8
Mercury, ug/l	0.08	0.20			0.15 J		--- U	10/01/10	CMF	EPA200.8
Mercury, ug/l	0.08	0.20				0.37		10/14/10	ADD	EPA245.1
Nickel, ug/l	0.05	50.0	Missing	1.6 J	7.2 J	0.8 J	6.1 J	10/01/10	CMF	EPA200.8
Selenium, ug/l	0.32	10.0	Missing	--- U	8.4 J	0.8 J	2.2 J	10/01/10	CMF	EPA200.8
Silver, ug/l	0.03	10.0	Missing	--- U	0.7 J	0.2 J	0.2 J	10/01/10	CMF	EPA200.8
Thallium, ug/l	0.05	5.5	Missing	--- U	1.0 J	--- U	0.5 J	10/01/10	CMF	EPA200.8
Tin, ug/l	0.11	100.0			2.1 J	0.5 J	1.8 J	10/01/10	CMF	EPA200.8
Vanadium, ug/l	0.03	25.0	Missing	10.8 J	74	2.8 J	36	10/01/10	CMF	EPA200.8
Zinc, ug/l	0.08	10.0	Missing	17	295	11	110	10/01/10	CMF	EPA200.8
Turbidity, NTU	1.0	1.0	Missing	280	877	234	159	09/27/10	RJH	SM2130B
Sulfide, ug/l	100	1000			--- U	--- U	--- U	09/30/10	LFJ	SM4500-S2D
Conductivity (at 25c), uMhos	1.0	1.0	Missing	104	275	64	43	09/27/10	RJH	SM2510B
Dissolved Oxygen, mg/l	0.1	0.1	Missing	5.70	0.50	1.62	2.33	09/27/10	RJH	SM4500OG
Temperature, °C			Missing	21.87	18.28	18.41	20.77	09/27/10	RJH	SM2550B
Static Water Level, feet					21.44	21.00	14.08	09/27/10	RJH	
Well Depth, feet					26.16	28.34	26.87	09/27/10	RJH	
ORP, mv			Missing	148.4	-71.2	161.6	274.8	09/27/10	RJH	SM2580B

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#: 6005

GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL ,NC 28580

DATE COLLECTED: 09/27/10
DATE REPORTED : 10/22/10

REVIEWED BY:

PARAMETERS	MDL	SWSL	Well #7	Well #8	Well #1R	Piezometer #2	Equipment Blank	Analysis Date	Analyst	Method Code
PH (field measurement), Units			4.53	4.40	4.45			09/27/10	RJH	SM4500HB
Chloride, mg/l	5.0	5.0	--- U	5	67		10	09/29/10	HLB	SM4500-CLB
Cyanide, ug/l	5.0	10.0	--- U	--- U	--- U		--- U	09/30/10	SEJ	SM4500 CN-
Antimony, ug/l	0.22	6.0	--- U	--- U	--- U		--- U	10/01/10	CMF	EPA200.8
Arsenic, ug/l	0.04	10.0	8.3 J	4.3 J	0.3 J		--- U	10/01/10	CMF	EPA200.8
Barium, ug/l	0.03	100.0	72.1 J	64.4 J	114		0.1 J	10/01/10	CMF	EPA200.8
Beryllium, ug/l	0.02	1.0	0.9 J	1	0.3 J		--- U	10/01/10	CMF	EPA200.8
Cadmium, ug/l	0.02	1.0	0.2 J	0.3 J	0.1 J		--- U	10/01/10	CMF	EPA200.8
Cobalt, ug/l	0.10	10.0	1.3 J	0.8 J	0.4 J		--- U	10/01/10	CMF	EPA200.8
Copper, ug/l	0.03	10.0	4.4 J	3.0 J	1.2 J		--- U	10/01/10	CMF	EPA200.8
Total Chromium, ug/l	0.03	10.0	21	13	0.3 J		--- U	10/01/10	CMF	EPA200.8
Lead, ug/l	0.01	10.0	13	28	1.6 J		0.1 J	10/01/10	CMF	EPA200.8
Mercury, ug/l	0.08	0.20	--- U	--- U	--- U		--- U	10/01/10	CMF	EPA200.8
Nickel, ug/l	0.05	50.0	2.7 J	1.7 J	1.1 J		--- U	10/01/10	CMF	EPA200.8
Selenium, ug/l	0.32	10.0	0.7 J	0.6 J	--- U		--- U	10/01/10	CMF	EPA200.8
Silver, ug/l	0.03	10.0	0.1 J	0.1 J	--- U		--- U	10/01/10	CMF	EPA200.8
Thallium, ug/l	0.05	5.5	0.1 J	0.1 J	0.1 J		--- U	10/01/10	CMF	EPA200.8
Tin, ug/l	0.11	100.0	1.4 J	1.9 J	0.4 J		0.3 J	10/01/10	CMF	EPA200.8
Vanadium, ug/l	0.03	25.0	26	40	0.6 J		0.3 J	10/01/10	CMF	EPA200.8
Zinc, ug/l	0.08	10.0	34	22	5.1 J		0.2 J	10/01/10	CMF	EPA200.8
Turbidity, NTU	1.0	1.0	535	255	13.7			09/27/10	RJH	SM2130B
Sulfide, ug/l	100	1000	--- U	--- U	--- U		--- U	09/30/10	LFJ	SM4500-S2D
Conductivity (at 25c), uMhos	1.0	1.0	50	35	259			09/27/10	RJH	SM2510B
Dissolved Oxygen, mg/l	0.1	0.1	5.82	6.63	1.47			09/27/10	RJH	SM4500OG
Temperature, °C			19.46	19.40	22.21			09/27/10	RJH	SM2550B
Static Water Level, feet			16.19	14.50	8.41	21.04		09/27/10	RJH	
Well Depth, feet			21.38	20.24	19.51			09/27/10	RJH	
ORP, mv			327.7	261.3	225.3			09/27/10	RJH	SM2580B

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: GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL, NC 28580

REVIEWED BY:

CLIENT ID: 6005

ANALYST: CHS
DATE COLLECTED: 09/27/10
DATE EXTRACTED: 09/29/10
DATE ANALYZED: 10/06/10
DATE REPORTED: 10/22/10

PESTICIDES AND PCB'S
EPA METHOD 8081B

PARAMETERS, ug/l	MDL	SWSL	Well #4	Well #5	Well #6	Well #7	Well #8
1. Aldrin	0.029	0.05	--- U	--- U	--- U	--- U	--- U
2. Alpha-BHC	0.032	0.05	--- U	--- U	--- U	--- U	--- U
3. Beta-BHC	0.031	0.05	--- U	--- U	--- U	--- U	--- U
4. Delta-BHC	0.030	0.05	--- U	--- U	--- U	--- U	--- U
5. Gamma-BHC (Lindane)	0.032	0.05	--- U	--- U	--- U	--- U	--- U
6. Chlordane	0.320	0.50	--- U	--- U	--- U	--- U	--- U
7. 4,4-DDD	0.051	0.10	--- U	--- U	--- U	--- U	--- U
8. 4,4-DDE	0.049	0.10	--- U	--- U	--- U	--- U	--- U
9. 4,4-DDT	0.052	0.10	--- U	--- U	--- U	--- U	--- U
10. Dieldrin	0.042	0.075	--- U	--- U	--- U	--- U	--- U
11. Endosulfan I	0.056	0.10	--- U	--- U	--- U	--- U	--- U
12. Endosulfan II	0.046	0.10	--- U	--- U	--- U	--- U	--- U
13. Endosulfan Sulfate	0.072	0.10	--- U	--- U	--- U	--- U	--- U
14. Endrin	0.053	0.10	--- U	--- U	--- U	--- U	--- U
15. Endrin Aldehyde	0.068	0.10	--- U	--- U	--- U	--- U	--- U
16. Heptachlor	0.039	0.05	--- U	--- U	--- U	--- U	--- U
17. Heptachlor Epoxide	0.042	0.075	--- U	--- U	--- U	--- U	--- U
18. Methoxychlor	0.530	1.00	--- U	--- U	--- U	--- U	--- U
19. Pcb's (Aroclors)	0.500	2.00	--- U	--- U	--- U	--- U	--- U
20. Toxaphene	0.690	1.50	--- 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: GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL, NC 28580

CLIENT ID: 6005

ANALYST: CHS
DATE COLLECTED: 09/27/10
DATE EXTRACTED: 09/29/10
DATE ANALYZED: 10/06/10
DATE REPORTED: 10/22/10

REVIEWED BY: _____

PESTICIDES AND PCB'S
EPA METHOD 8081B

PARAMETERS, ug/l	MDL	SWSL	Well #1R	Equipment Blank
1. Aldrin	0.029	0.05	--- U	--- U
2. Alpha-BHC	0.032	0.05	--- U	--- U
3. Beta-BHC	0.031	0.05	--- U	--- U
4. Delta-BHC	0.030	0.05	--- U	--- U
5. Gamma-BHC (Lindane)	0.032	0.05	--- U	--- U
6. Chlordane	0.320	0.50	--- U	--- U
7. 4,4-DDD	0.051	0.10	--- U	--- U
8. 4,4-DDE	0.049	0.10	--- U	--- U
9. 4,4-DDT	0.052	0.10	--- U	--- U
10. Dieldrin	0.042	0.075	--- U	--- U
11. Endosulfan I	0.056	0.10	--- U	--- U
12. Endosulfan II	0.046	0.10	--- U	--- U
13. Endosulfan Sulfate	0.072	0.10	--- U	--- U
14. Endrin	0.053	0.10	--- U	--- U
15. Endrin Aldehyde	0.068	0.10	--- U	--- U
16. Heptachlor	0.039	0.05	--- U	--- U
17. Heptachlor Epoxide	0.042	0.075	--- U	--- U
18. Methoxychlor	0.530	1.00	--- U	--- U
19. Pcb's (Aroclors)	0.500	2.00	--- U	--- U
20. Toxaphene	0.690	1.50	--- U	--- U

NOTE: Surrogate recovery for Wells 4,6,7,8 & 1R was not within control limits due to 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
FAX (252) 756-0633

CLIENT: GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL, NC 28580

CLIENT ID: 6005

ANALYST: CHS
DATE COLLECTED: 09/27/10
DATE EXTRACTED: 09/30/10
DATE ANALYZED: 09/30/10
DATE REPORTED: 10/22/10

REVIEWED BY: _____

LANDFILL APPENDIX II
EPA METHOD 8151A

PARAMETERS, ug/l	MDL	SWSL	Well #4	Well #5	Well #6	Well #7	Well #8
1. 2,4-D	0.36	2.0	--- U	--- U	--- U	--- U	--- U
2. Dinoseb	0.54	1.0	--- U	--- U	--- U	--- U	--- U
3. 2,4,5-TP	0.42	2.0	--- U	--- U	--- U	--- U	--- U
4. 2,4,5-T	0.47	2.0	--- U	--- U	--- U	--- U	--- U

NOTE: Surrogate recovery for well MW-7 was not within control limits due to 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
FAX (252) 756-0633

CLIENT: GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL, NC 28580

CLIENT ID: 6005

ANALYST: CHS
DATE COLLECTED: 09/27/10
DATE EXTRACTED: 09/30/10
DATE ANALYZED: 09/30/10
DATE REPORTED: 10/22/10

REVIEWED BY: _____

LANDFILL APPENDIX II
EPA METHOD 8151A

PARAMETERS, ug/l	MDL	SWSL	Well #1R	Equipment Blank
1. 2,4-D	0.36	2.0	--- U	--- U
2. Dinoseb	0.54	1.0	--- U	--- U
3. 2,4,5-TP	0.42	2.0	--- U	--- U
4. 2,4,5-T	0.47	2.0	--- 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: GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL, NC 28580

CLIENT ID: 6005

ANALYST: MAO
DATE COLLECTED: 09/27/10
DATE ANALYZED: 10/05/10
DATE REPORTED: 10/22/10

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Downstream
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, 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: GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL, NC 28580

CLIENT ID: 6005

ANALYST: CHS
DATE COLLECTED: 09/27/10
DATE EXTRACTED: 09/28/10
DATE ANALYZED: 09/28/10
DATE REPORTED: 10/22/10

REVIEWED BY: _____

SEMI-VOLATILE ORGANICS
EPA METHOD 8270C

PARAMETERS, ug/l	MDL	SWSL	Well #4	Well #5	Well #6	Well #7	Well #8
1. Acenaphthene	2.66	10.0	--- U	--- U	--- U	--- U	--- U
2. Acenaphthylene	2.60	10.0	--- U	--- U	--- U	--- U	--- U
3. Anthracene	2.97	10.0	--- U	--- U	--- U	--- U	--- U
4. Benzo[a]antrhacene	4.16	10.0	--- U	--- U	--- U	--- U	--- U
5. Benzo[b]fluoranthene	3.32	10.0	--- U	--- U	--- U	--- U	--- U
6. Benzo[k]fluoranthene	4.23	10.0	--- U	--- U	--- U	--- U	--- U
7. Benzo[g,h,i]perylene	2.61	10.0	--- U	--- U	--- U	--- U	--- U
8. Benzo[a]pyrene	3.27	10.0	--- U	--- U	--- U	--- U	--- U
9. 4-Bromophenyl Phenyl Ether	2.63	10.0	--- U	--- U	--- U	--- U	--- U
10. Butyl Benzyl Phthalate	5.78	10.0	--- U	--- U	--- U	--- U	--- U
11. Bis-(2-Chloroethoxy) Methane	3.14	10.0	--- U	--- U	--- U	--- U	--- U
12. Bis-(2-Chloroethyl) Ether	2.58	10.0	--- U	--- U	--- U	--- U	--- U
13. Bis-(2-Chloroisopropyl) Ether	2.58	10.0	--- U	--- U	--- U	--- U	--- U
14. 2-Chloronaphthalene	2.17	10.0	--- U	--- U	--- U	--- U	--- U
15. 4-Chlorophenyl Phenyl Ether	2.42	10.0	--- U	--- U	--- U	--- U	--- U
16. Chrysene	4.04	10.0	--- U	--- U	--- U	--- U	--- U
17. Dibenzo[a,h]anthracene	2.78	10.0	--- U	--- U	--- U	--- U	--- U
18. Di-N-Butyl Phthalate	3.09	10.0	--- U	--- U	--- U	--- U	--- U
19. Dimethyl Phthalate	3.78	10.0	--- U	--- U	--- U	--- U	--- U
20. Diethyl Phthalate	3.92	6000	--- U	--- U	--- U	--- U	--- U
21. 2,4-Dinitrotoluene	3.95	10.0	--- U	--- U	--- U	--- U	--- U
22. 2,6-Dinitrotoluene	3.88	10.0	--- U	--- U	--- U	--- U	--- U
23. Di-N-Octyl Phthalate	2.81	10.0	--- U	--- U	--- U	--- U	--- U
24. Bis-(2-Ethylhexyl) Phthalate	9.97	15.0	--- U	--- U	14.10 J	--- U	--- U
25. Fluoranthene	3.92	10.0	--- U	--- U	--- U	--- U	--- U
26. Fluorene	2.95	10.0	--- U	--- U	--- U	--- U	--- U
27. Hexachlorobenzene	2.61	10.0	--- U	--- U	--- U	--- U	--- U
28. Hexachlorocyclopentadiene	4.16	10.0	--- U	--- U	--- U	--- U	--- U
29. Indeno[1,2,3-Cd]pyrene	2.91	10.0	--- U	--- U	--- U	--- U	--- U
30. Isophorone	3.74	10.0	--- U	--- U	--- U	--- U	--- U
31. Nitrobenzene	2.85	10.0	--- U	--- U	--- U	--- U	--- U
32. N-Nitrosodimethylamine	4.25	10.0	--- U	--- U	--- U	--- U	--- U
33. N-Nitrosodiphenylamine	3.95	10.0	--- U	--- U	--- U	--- U	--- U
34. N-Nitrosodi-N-Propylamine	4.06	10.0	--- U	--- U	--- U	--- U	--- U
35. Phenanthrene	3.24	10.0	--- U	--- U	--- U	--- U	--- U
36. Pyrene	3.63	10.0	--- U	--- U	--- U	--- U	--- U
37. 4-Chloro-3-Methylphenol	3.79	20.0	--- U	--- U	--- U	--- U	--- U
38. 2-Chlorophenol	2.75	10.0	--- U	--- U	--- U	--- U	--- U
39. O-Cresol	3.68	10.0	--- U	--- U	--- U	--- U	--- U
40. P-Cresol	4.12	10.0	--- U	--- U	--- U	--- U	--- U
41. 2,4-Dichlorophenol	5.19	10.0	--- U	--- U	--- U	--- U	--- U
42. 2,6-Dichlorophenol	4.89	10.0	--- U	--- U	--- U	--- U	--- U
43. 2,4-Dimethylphenol	3.21	10.0	--- U	--- U	--- U	--- U	--- U
44. 4,6-Dinitro-2-Methylphenol	4.77	50.0	--- U	--- U	--- U	--- U	--- U
45. 2,4-Dinitrophenol	4.37	50.0	--- U	--- U	--- U	--- U	--- U
46. Ethyl Methanesulfonate	5.26	20.0	--- U	--- U	--- U	--- U	--- U
47. Methyl Methanesulfonate	4.92	10.0	--- U	--- U	--- U	--- U	--- U
48. 2-Nitrophenol	3.64	10.0	--- 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: GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL, NC 28580

CLIENT ID: 6005

ANALYST: CHS
DATE COLLECTED: 09/27/10
DATE EXTRACTED: 09/28/10
DATE ANALYZED: 09/28/10
DATE REPORTED: 10/22/10

REVIEWED BY:

SEMI-VOLATILE ORGANICS
EPA METHOD 8270C

PARAMETERS, ug/l	MDL	SWSL	Well #4	Well #5	Well #6	Well #7	Well #8
49. 4-Nitrophenol	3.17	50.0	--- U	--- U	--- U	--- U	--- U
50. Pentachlorophenol	5.33	25.0	--- U	--- U	--- U	--- U	--- U
51. Phenol	1.86	10.0	--- U	--- U	--- U	--- U	--- U
52. 2,3,4,6-Tetrachlorophenol	3.12	10.0	--- U	--- U	--- U	--- U	--- U
53. 2,4,5-Trichlorophenol	4.17	10.0	--- U	--- U	--- U	--- U	--- U
54. 2,4,6-Trichlorophenol	3.84	10.0	--- U	--- U	--- U	--- U	--- U
55. Acetophenone	2.89	10.0	--- U	--- U	--- U	--- U	--- U
56. 2-Acetylaminofluorene	3.98	20.0	--- U	--- U	--- U	--- U	--- U
57. 4-Aminobiphenyl	4.12	20.0	--- U	--- U	--- U	--- U	--- U
58. Benzyl Alcohol	4.47	20.0	--- U	--- U	--- U	--- U	--- U
59. 4-Chloroaniline	3.36	20.0	--- U	--- U	--- U	--- U	--- U
60. Chlorobenzilate	5.12	10.0	--- U	--- U	--- U	--- U	--- U
61. Diallate	2.98	10.0	--- U	--- U	--- U	--- U	--- U
62. Dibenzofuran	4.28	10.0	--- U	--- U	--- U	--- U	--- U
63. 3,3-Dichlorobenzidine	4.22	20.0	--- U	--- U	--- U	--- U	--- U
64. Dimethoate	3.98	20.0	--- U	--- U	--- U	--- U	--- U
65. P-Dimethylaminoazobenzene	2.89	10.0	--- U	--- U	--- U	--- U	--- U
66. 7,12-Dimethylbenz[a]anthracene	5.26	10.0	--- U	--- U	--- U	--- U	--- U
67. 3,3-Dimethylbenzadine	3.21	10.0	--- U	--- U	--- U	--- U	--- U
68. 1,3-Dinitrobenzene	2.89	20.0	--- U	--- U	--- U	--- U	--- U
69. Diphenylamine	5.10	10.0	--- U	--- U	--- U	--- U	--- U
70. Disulfoton	4.28	10.0	--- U	--- U	--- U	--- U	--- U
71. Famphur	3.98	20.0	--- U	--- U	--- U	--- U	--- U
72. Hexachloropropene	4.31	10.0	--- U	--- U	--- U	--- U	--- U
73. Isosafrole	2.88	10.0	--- U	--- U	--- U	--- U	--- U
74. Kepone	2.78	20.0	--- U	--- U	--- U	--- U	--- U
75. Methapyrilene	3.54	100.0	--- U	--- U	--- U	--- U	--- U
76. 3-Methylchloroanthrene	4.21	10.0	--- U	--- U	--- U	--- U	--- U
77. 2-Methylnaphthalene	3.79	10.0	--- U	--- U	--- U	--- U	--- U
78. Methyl Parathion	4.32	10.0	--- U	--- U	--- U	--- U	--- U
79. m-Cresol	3.81	10.0	--- U	--- U	--- U	--- U	--- U
80. 1,4-Naphthoquinone	4.00	10.0	--- U	--- U	--- U	--- U	--- U
81. 1-Naphthylamine	5.61	10.0	--- U	--- U	--- U	--- U	--- U
82. 2-Naphthylamine	4.62	10.0	--- U	--- U	--- U	--- U	--- U
83. 2-Nitroaniline	3.61	50.0	--- U	--- U	--- U	--- U	--- U
84. 3-Nitroaniline	4.81	50.0	--- U	--- U	--- U	--- U	--- U
85. 4-Nitroaniline	4.22	20.0	--- U	--- U	--- U	--- U	--- U
86. 5-Nitro-O-Toluidine	4.01	10.0	--- U	--- U	--- U	--- U	--- U
87. N-Nitrosodi-n-butylamine	3.63	10.0	--- U	--- U	--- U	--- U	--- U
88. N-Nitrosodiethylamine	3.83	20.0	--- U	--- U	--- U	--- U	--- U
89. N-Nitrosomethylethylamine	3.83	10.0	--- U	--- U	--- U	--- U	--- U
90. N-Nitrosopiperidine	5.19	20.0	--- U	--- U	--- U	--- U	--- U
91. N-Nitrosopyrrolidine	2.89	10.0	--- U	--- U	--- U	--- U	--- U
92. Parathion	3.12	10.0	--- U	--- U	--- U	--- U	--- U
93. Pentachlorobenzene	3.92	10.0	--- U	--- U	--- U	--- U	--- U
94. Pentachloronitrobenzene	3.71	20.0	--- U	--- U	--- U	--- U	--- U
95. Phenacetin	4.41	20.0	--- U	--- U	--- U	--- U	--- U
96. 1,4 Benzenediamine	2.99	10.0	--- 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: GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL, NC 28580

REVIEWED BY:

CLIENT ID: 6005

ANALYST: CHS
DATE COLLECTED: 09/27/10
DATE EXTRACTED: 09/28/10
DATE ANALYZED: 09/28/10
DATE REPORTED: 10/22/10

SEMI-VOLATILE ORGANICS
EPA METHOD 8270C

PARAMETERS, ug/l	MDL	SWSL	Well #4	Well #5	Well #6	Well #7	Well #8
97. Phorate	3.86	10.0	--- U	--- U	--- U	--- U	--- U
98. Pronamide	3.69	10.0	--- U	--- U	--- U	--- U	--- U
99. Safrole	4.12	10.0	--- U	--- U	--- U	--- U	--- U
100. 1,2,4,5-Tetrachlorobenzene	5.01	10.0	--- U	--- U	--- U	--- U	--- U
101. Thionazin	4.62	20.0	--- U	--- U	--- U	--- U	--- U
102. O-Toluidine	4.11	10.0	--- U	--- U	--- U	--- U	--- U
103. 1,3,5-Trinitrobenzene	3.98	10.0	--- U	--- U	--- U	--- U	--- U
104. 0,0,0-Triethyl Phosphorothioate	3.61	10.0	--- U	--- U	--- U	--- U	--- U
105. Hexachloroethane	1.49	10.0	--- U	--- U	--- U	--- U	--- U
106. Isodrin	3.11	20.0	--- U	--- U	--- U	--- U	--- U

NOTE: Surrogate recovery for wells MW-4 & MW-6 was not within control limits due to 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
FAX (252) 756-0633

CLIENT: GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL, NC 28580

CLIENT ID: 6005

ANALYST: CHS
DATE COLLECTED: 09/27/10
DATE EXTRACTED: 09/28/10
DATE ANALYZED: 09/28/10
DATE REPORTED: 10/22/10

REVIEWED BY: _____

SEMI-VOLATILE ORGANICS
EPA METHOD 8270C

PARAMETERS, ug/l	MDL	SWSL	Well #1R	Equipment Blank
1. Acenaphthene	2.66	10.0	--- U	--- U
2. Acenaphthylene	2.60	10.0	--- U	--- U
3. Anthracene	2.97	10.0	--- U	--- U
4. Benzo[a]antrhacene	4.16	10.0	--- U	--- U
5. Benzo[b]fluoranthene	3.32	10.0	--- U	--- U
6. Benzo[k]fluoranthene	4.23	10.0	--- U	--- U
7. Benzo[g,h,i]perylene	2.61	10.0	--- U	--- U
8. Benzo[a]pyrene	3.27	10.0	--- U	--- U
9. 4-Bromophenyl Phenyl Ether	2.63	10.0	--- U	--- U
10. Butyl Benzyl Phthalate	5.78	10.0	--- U	--- U
11. Bis-(2-Chloroethoxy) Methane	3.14	10.0	--- U	--- U
12. Bis-(2-Chloroethyl) Ether	2.58	10.0	--- U	--- U
13. Bis-(2-Chloroisopropyl) Ether	2.58	10.0	--- U	--- U
14. 2-Chloronaphthalene	2.17	10.0	--- U	--- U
15. 4-Chlorophenyl Phenyl Ether	2.42	10.0	--- U	--- U
16. Chrysene	4.04	10.0	--- U	--- U
17. Dibenzo[a,h]anthracene	2.78	10.0	--- U	--- U
18. Di-N-Butyl Phthalate	3.09	10.0	--- U	--- U
19. Dimethyl Phthalate	3.78	10.0	--- U	--- U
20. Diethyl Phthalate	3.92	6000	--- U	--- U
21. 2,4-Dinitrotoluene	3.95	10.0	--- U	--- U
22. 2,6-Dinitrotoluene	3.88	10.0	--- U	--- U
23. Di-N-Octyl Phthalate	2.81	10.0	--- U	--- U
24. Bis-(2-Ethylhexyl) Phthalate	9.97	15.0	--- U	--- U
25. Fluoranthene	3.92	10.0	--- U	--- U
26. Fluorene	2.95	10.0	--- U	--- U
27. Hexachlorobenzene	2.61	10.0	--- U	--- U
28. Hexachlorocyclopentadiene	4.16	10.0	--- U	--- U
29. Indeno[1,2,3-Cd]pyrene	2.91	10.0	--- U	--- U
30. Isophorone	3.74	10.0	--- U	--- U
31. Nitrobenzene	2.85	10.0	--- U	--- U
32. N-Nitrosodimethylamine	4.25	10.0	--- U	--- U
33. N-Nitrosodiphenylamine	3.95	10.0	--- U	--- U
34. N-Nitrosodi-N-Propylamine	4.06	10.0	--- U	--- U
35. Phenanthrene	3.24	10.0	--- U	--- U
36. Pyrene	3.63	10.0	--- U	--- U
37. 4-Chloro-3-Methylphenol	3.79	20.0	--- U	--- U
38. 2-Chlorophenol	2.75	10.0	--- U	--- U
39. O-Cresol	3.68	10.0	--- U	--- U
40. P-Cresol	4.12	10.0	--- U	--- U
41. 2,4-Dichlorophenol	5.19	10.0	--- U	--- U
42. 2,6-Dichlorophenol	4.89	10.0	--- U	--- U
43. 2,4-Dimethylphenol	3.21	10.0	--- U	--- U
44. 4,6-Dinitro-2-Methylphenol	4.77	50.0	--- U	--- U
45. 2,4-Dinitrophenol	4.37	50.0	--- U	--- U
46. Ethyl Methanesulfonate	5.26	20.0	--- U	--- U
47. Methyl Methanesulfonate	4.92	10.0	--- U	--- U
48. 2-Nitrophenol	3.64	10.0	--- 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: GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL, NC 28580

CLIENT ID: 6005

ANALYST: CHS
DATE COLLECTED: 09/27/10
DATE EXTRACTED: 09/28/10
DATE ANALYZED: 09/28/10
DATE REPORTED: 10/22/10

REVIEWED BY: _____

SEMI-VOLATILE ORGANICS
EPA METHOD 8270C

PARAMETERS, ug/l	MDL	SWSL	Well #1R	Equipment Blank
49. 4-Nitrophenol	3.17	50.0	--- U	--- U
50. Pentachlorophenol	5.33	25.0	--- U	--- U
51. Phenol	1.86	10.0	--- U	--- U
52. 2,3,4,6-Tetrachlorophenol	3.12	10.0	--- U	--- U
53. 2,4,5-Trichlorophenol	4.17	10.0	--- U	--- U
54. 2,4,6-Trichlorophenol	3.84	10.0	--- U	--- U
55. Acetophenone	2.89	10.0	--- U	--- U
56. 2-Acetylaminofluorene	3.98	20.0	--- U	--- U
57. 4-Aminobiphenyl	4.12	20.0	--- U	--- U
58. Benzyl Alcohol	4.47	20.0	--- U	--- U
59. 4-Chloroaniline	3.36	20.0	--- U	--- U
60. Chlorobenzilate	5.12	10.0	--- U	--- U
61. Diallate	2.98	10.0	--- U	--- U
62. Dibenzofuran	4.28	10.0	--- U	--- U
63. 3,3-Dichlorobenzidine	4.22	20.0	--- U	--- U
64. Dimethoate	3.98	20.0	--- U	--- U
65. P-Dimethylaminoazobenzene	2.89	10.0	--- U	--- U
66. 7,12-Dimethylbenz[a]anthracene	5.26	10.0	--- U	--- U
67. 3,3-Dimethylbenzadine	3.21	10.0	--- U	--- U
68. 1,3-Dinitrobenzene	2.89	20.0	--- U	--- U
69. Diphenylamine	5.10	10.0	--- U	--- U
70. Disulfoton	4.28	10.0	--- U	--- U
71. Famphur	3.98	20.0	--- U	--- U
72. Hexachloropropene	4.31	10.0	--- U	--- U
73. Isosafrole	2.88	10.0	--- U	--- U
74. Kepone	2.78	20.0	--- U	--- U
75. Methapyrilene	3.54	100.0	--- U	--- U
76. 3-Methylchloroanthrene	4.21	10.0	--- U	--- U
77. 2-Methylnaphthalene	3.79	10.0	--- U	--- U
78. Methyl Parathion	4.32	10.0	--- U	--- U
79. m-Cresol	3.81	10.0	--- U	--- U
80. 1,4-Naphthoquinone	4.00	10.0	--- U	--- U
81. 1-Naphthylamine	5.61	10.0	--- U	--- U
82. 2-Naphthylamine	4.62	10.0	--- U	--- U
83. 2-Nitroaniline	3.61	50.0	--- U	--- U
84. 3-Nitroaniline	4.81	50.0	--- U	--- U
85. 4-Nitroaniline	4.22	20.0	--- U	--- U
86. 5-Nitro-O-Toluidine	4.01	10.0	--- U	--- U
87. N-Nitrosodi-n-butylamine	3.63	10.0	--- U	--- U
88. N-Nitrosodiethylamine	3.83	20.0	--- U	--- U
89. N-Nitrosomethylethylamine	3.83	10.0	--- U	--- U
90. N-Nitrosopiperidine	5.19	20.0	--- U	--- U
91. N-Nitrosopyrrolidine	2.89	10.0	--- U	--- U
92. Parathion	3.12	10.0	--- U	--- U
93. Pentachlorobenzene	3.92	10.0	--- U	--- U
94. Pentachloronitrobenzene	3.71	20.0	--- U	--- U
95. Phenacetin	4.41	20.0	--- U	--- U
96. 1,4 Benzenediamine	2.99	10.0	--- 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: GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL, NC 28580

CLIENT ID: 6005

ANALYST: CHS
DATE COLLECTED: 09/27/10
DATE EXTRACTED: 09/28/10
DATE ANALYZED: 09/28/10
DATE REPORTED: 10/22/10

REVIEWED BY: _____

SEMI-VOLATILE ORGANICS
EPA METHOD 8270C

PARAMETERS, ug/l	MDL	SWSL	Well #1R	Equipment Blank
97. Phorate	3.86	10.0	--- U	--- U
98. Pronamide	3.69	10.0	--- U	--- U
99. Safrole	4.12	10.0	--- U	--- U
100. 1,2,4,5-Tetrachlorobenzene	5.01	10.0	--- U	--- U
101. Thionazin	4.62	20.0	--- U	--- U
102. O-Toluidine	4.11	10.0	--- U	--- U
103. 1,3,5-Trinitrobenzene	3.98	10.0	--- U	--- U
104. 0,0,0-Triethyl Phosphorothioate	3.61	10.0	--- U	--- U
105. Hexachloroethane	1.49	10.0	--- U	--- U
106. Isodrin	3.11	20.0	--- 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: GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL, NC 28580

CLIENT ID: 6005

ANALYST: MAO
DATE COLLECTED: 09/27/10
DATE ANALYZED: 10/05/10
DATE REPORTED: 10/22/10

REVIEWED BY: _____

LANDFILL APPENDIX II
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Well #4	Well #5	Well #6	Well #7	Well #8
1. Chloromethane	0.77	1.0	--- U	--- U	--- U	--- U	0.80 J
2. Vinyl Chloride	0.63	1.0	4.10	--- U	--- U	--- U	--- U
3. Bromomethane	0.67	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.48	10.0	8.50 J	--- 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	0.70 J	--- 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	1.70 J	--- 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	6.80	1.00 J	--- 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	0.30 J
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	2.50	--- U	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.21	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	1.00	--- 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	0.90 J	--- 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	3.00	--- 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
48. Acrolein	40.57	53.0	--- 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: GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL, NC 28580

CLIENT ID: 6005

ANALYST: MAO
DATE COLLECTED: 09/27/10
DATE ANALYZED: 10/05/10
DATE REPORTED: 10/22/10

REVIEWED BY: _____

LANDFILL APPENDIX II
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Well #4	Well #5	Well #6	Well #7	Well #8
49. Allyl Chloride	0.20	10.0	--- U	--- U	--- U	--- U	--- U
50. Chloroprene	0.21	20.0	--- U	--- U	--- U	--- U	--- U
51. 1,3-Dichlorobenzene	0.41	5.0	--- U	--- U	--- U	--- U	--- U
52. Dichlorodifluoromethane	0.51	5.0	--- U	--- U	--- U	--- U	--- U
53. 1,3-Dichloropropane	0.28	1.0	--- U	--- U	--- U	--- U	--- U
54. 2,2-Dichloropropane	0.17	15.0	--- U	--- U	--- U	--- U	--- U
55. 1,1-Dichloropropene	0.22	5.0	--- U	--- U	--- U	--- U	--- U
56. Ethyl Methacrylate	0.16	10.0	--- U	--- U	--- U	--- U	--- U
57. Hexachlorobutadiene	0.57	10.0	--- U	--- U	--- U	--- U	--- U
58. Isobutyl Alcohol	12.80	100.0	--- U	--- U	--- U	--- U	--- U
59. Methacrylonitrile	1.93	100.0	--- U	--- U	--- U	--- U	--- U
60. Methyl Methacrylate	0.25	30.0	--- U	--- U	--- U	--- U	--- U
61. Naphthalene	0.47	10.0	--- U	--- U	--- U	--- U	--- U
62. Propionitrile	3.26	150.0	--- U	--- U	--- U	--- U	--- U
63. 1,2,4-Trichlorobenzene	0.50	10.0	--- U	--- U	--- U	--- U	--- U
64. Acetonitrile	36.29	55.0	--- 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: GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL, NC 28580

CLIENT ID: 6005

ANALYST: MAO
DATE COLLECTED: 09/27/10
DATE ANALYZED: 10/05/10
DATE REPORTED: 10/22/10

REVIEWED BY: _____

LANDFILL APPENDIX II
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Well #1R	Equipment Blank	Trip Blank
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	0.21	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
48. Acrolein	40.57	53.0	--- 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: GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL, NC 28580

CLIENT ID: 6005

ANALYST: MAO
DATE COLLECTED: 09/27/10
DATE ANALYZED: 10/05/10
DATE REPORTED: 10/22/10

REVIEWED BY: _____

LANDFILL APPENDIX II
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Well #1R	Equipment Blank	Trip Blank
49. Allyl Chloride	0.20	10.0	--- U	--- U	--- U
50. Chloroprene	0.21	20.0	--- U	--- U	--- U
51. 1,3-Dichlorobenzene	0.41	5.0	--- U	--- U	--- U
52. Dichlorodifluoromethane	0.51	5.0	--- U	--- U	--- U
53. 1,3-Dichloropropane	0.28	1.0	--- U	--- U	--- U
54. 2,2-Dichloropropane	0.17	15.0	--- U	--- U	--- U
55. 1,1-Dichloropropene	0.22	5.0	--- U	--- U	--- U
56. Ethyl Methacrylate	0.16	10.0	--- U	--- U	--- U
57. Hexachlorobutadiene	0.57	10.0	--- U	--- U	--- U
58. Isobutyl Alcohol	12.80	100.0	--- U	--- U	--- U
59. Methacrylonitrile	1.93	100.0	--- U	--- U	--- U
60. Methyl Methacrylate	0.25	30.0	--- U	--- U	--- U
61. Naphthalene	0.47	10.0	--- U	--- U	--- U
62. Propionitrile	3.26	150.0	--- U	--- U	--- U
63. 1,2,4-Trichlorobenzene	0.50	10.0	--- U	--- U	--- U
64. Acetonitrile	36.29	55.0	--- 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: 6005 **Week:** 37

GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL NC 28580

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

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field pH	Chloride	Cyanide	Metals	Turbidity	Sulfide	Conductivity	DO	Temperature	Field Parameter	EPA 8260B	8260 Dup. 1	8260 Dup. 2	EPA 8270C	8270C Dup. 1	EPA 8081B
CHLORINE NEUTRALIZED AT COLLECTION																					
pH CHECK (LAB)								12			7					<2	<2	<2			
CONTAINER TYPE, P/G						P	P	P	P	P	P	P	P	P		G	G	G	G	G	G
CHEMICAL PRESERVATION						A	A	D	A	A	F D	A	A	A		E	E	E	A	A	A
~~Upstream~~					4	G			G	G		G	G	G		G	G				
Downstream	09 27 10	1555		21.87	4	G			G	G		G	G	G		G	G				
Well #4	09 27 10	1509 RJH ~~1000~~		18.26	11	G	G	G	G	G	G	G	G	G	G		G		G	G	G
Well #5	09 27 10	1105		18.41	12	G	G	G	G	G	G	G	G	G	G		G		G	G	G
Well #6	09 27 10	1310		20.77	12	G	G	G	G	G	G	G	G	G	G		G		G	G	G
Well #7	09 27 10	0940		19.46	12	G	G	G	G	G	G	G	G	G	G		G		G	G	G
Well #8	09 27 10	0920		19.40	12	G	G	G	G	G	G	G	G	G	G		G		G	G	G
Well #1R	09 27 10	1200		22.21	13	G	G	G	G	G	G	G	G	G	G		G	G	G	G	G
Piezometer #2	09 27 10	1540			1										G						
Equipment Blank	09 27 10	0905			6		G	G	G		G						G				
Trip Blank					2																

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)
H Lope Fox

SAMPLES RECEIVED IN LAB AT 1.6 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob H Lope	09 27 10 4:45PM	[signature]	9/27/10 4:45PM
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:
DP - 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

№ 209138

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: 6005 **Week: 37**

GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL NC 28580

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

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	8081B Duplicate	8260B App. II	8151A Landfill	ORP
CHLORINE NEUTRALIZED AT COLLECTION									
pH CHECK (LAB)									
CONTAINER TYPE, P/G						G	G	G	P
CHEMICAL PRESERVATION						A	E	A	A
Upstream	09 27 10				4				G
Downstream	09 27 10	1555		21.87	4				G
Well #4	09 27 10	1505		18.28	11	G	G	G	G
Well #5	09 27 10	1105		18.41	12	G	G	G	G
Well #6	09 27 10	1310		20.77	12	G	G	G	G
Well #7	09 27 10	0940		19.46	12	G	G	G	G
Well #8	09 27 10	0920		19.40	12	G	G	G	G
Well #1R	09 27 10	1200		22.21	13	G	G	G	G
Piezometer #2					1				
Equipment Blank	09 27 10	0905			6		G		
Trip Blank					2		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
- ☒ SOLID WASTE SECTION

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

SAMPLES COLLECTED BY: (Please Print)
H Hogge / EA

SAMPLES RECEIVED IN LAB AT 1.6 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob H Hogge	09 27 10 4:45PM	[illegible]	9/27/10 4:45PM
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.

№ 209137

FORM #5

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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

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

ID#: 6005 A

GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL ,NC 28580

DATE COLLECTED: 09/27/10
DATE REPORTED : 10/25/10

REVIEWED BY:

PARAMETERS	MDL	SWSL	Well #4	Well #1R	Equipment Blank	Trip Blank	Analysis Date	Analyst	Method Code
PH (field measurement), Units			5.69	4.45			09/27/10	RJH	SM4500HB
BOD, mg/l	2.0	2.0	2.4	--- U			09/28/10	TRB	SM5210B
COD, mg/l	10.0	10.0	29				09/28/10	TRB	HACH8000
COD, mg/l	10.0	10.0		16			10/05/10	TRB	HACH8000
Nitrate Nitrogen as N, mg/l	0.03	10.0	--- U	2.99 J			09/29/10	ANO	EPA353.2
Total Organic Carbon, mg/l	0.15	1.0	4.69	1.34			10/05/10	SEJ	SM5310C
Total Alkalinity, mg/l	1.0	1.0	132				09/28/10	TRB	SM2320B
Total Alkalinity, mg/l	1.0	1.0		--- U			09/27/10	TRB	SM2320B
Chloride, mg/l	5.0	5.0	67	67			09/29/10	HLB	SM4500-CLB
Cyanide, ug/l	5.0	10.0	--- U	--- U			09/30/10	SEJ	SM4500 CN-E
Sulfate, mg/l	5.0	250.0	5.1 J	--- U			10/04/10	TRB	SM426C
Antimony, ug/l	0.22	6.0	0.6 J	--- U	--- U		10/01/10	CMF	EPA200.8
Arsenic, ug/l	0.04	10.0	16				10/15/10	CMF	SM3113B
Arsenic, ug/l	0.04	10.0		0.3 J	--- U		10/01/10	CMF	EPA200.8
Barium, ug/l	0.03	100.0	803	114	0.1 J		10/01/10	CMF	EPA200.8
Beryllium, ug/l	0.02	1.0	8	0.3 J	--- U		10/01/10	CMF	EPA200.8
Cadmium, ug/l	0.02	1.0	3	0.1 J	--- U		10/01/10	CMF	EPA200.8
Cobalt, ug/l	0.10	10.0	4.7 J	0.4 J	--- U		10/01/10	CMF	EPA200.8
Copper, ug/l	0.03	10.0	9.2 J	1.2 J	--- U		10/01/10	CMF	EPA200.8
Total Chromium, ug/l	0.03	10.0	28	0.3 J	--- U		10/01/10	CMF	EPA200.8
Iron, ug/l	13.8	300.0	133700	708	70 J		10/12/10	ADD	SM3111B
Lead, ug/l	0.01	10.0	121	1.6 J	0.1 J		10/01/10	CMF	EPA200.8
Mercury, ug/l	0.08	0.20	0.15 J	--- U	--- U		10/01/10	CMF	EPA200.8
Nickel, ug/l	0.05	50.0	7.2 J	1.1 J	--- U		10/01/10	CMF	EPA200.8
Selenium, ug/l	0.32	10.0	8.4 J	--- U	--- U		10/01/10	CMF	EPA200.8
Silver, ug/l	0.03	10.0	0.7 J	--- U	--- U		10/01/10	CMF	EPA200.8
Thallium, ug/l	0.05	5.5	1.0 J	0.1 J	--- U		10/01/10	CMF	EPA200.8
Tin, ug/l	0.11	100.0	2.1 J	0.4 J	0.3 J		10/01/10	CMF	EPA200.8
Vanadium, ug/l	0.03	25.0	74	0.6 J	0.3 J		10/01/10	CMF	EPA200.8
Zinc, ug/l	0.08	10.0	295	5.1 J	0.2 J		10/01/10	CMF	EPA200.8
Turbidity, NTU	1.0	1.0	877	13.7			09/27/10	RJH	SM2130B
Sulfide, ug/l	100	1000	--- U				09/30/10	LFJ	SM4500-S2D
Sulfide, ug/l	100	1000		--- U			09/27/10	LFJ	SM4500-S2D
Conductivity (at 25c), uMhos	1.0	1.0	275	259			09/27/10	RJH	SM2510B
Dissolved Oxygen, mg/l	0.1	0.1	0.50	1.47			09/27/10	RJH	SM4500OG
Temperature, °C			18.28	22.21			09/27/10	RJH	SM2550B
Static Water Level, feet			21.44	8.41			09/27/10	RJH	
Carbon Dioxide, mg/l	1.0	1.0	318	102			09/28/10	TRB	SM4500CO2C
ORP, mv			-71.2	225.3			09/27/10	RJH	SM2580B

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: GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL, NC 28580

CLIENT ID: 6005 A

ANALYST: CHS
DATE COLLECTED: 09/27/10
DATE EXTRACTED: 09/29/10
DATE ANALYZED: 10/06/10
DATE REPORTED: 10/25/10

REVIEWED BY:

PESTICIDES AND PCB'S
EPA METHOD 8081B

PARAMETERS, ug/l	MDL	SWSL	Well #4	Well #1R
1. Aldrin	0.029	0.05	--- U	--- U
2. Alpha-BHC	0.032	0.05	--- U	--- U
3. Beta-BHC	0.031	0.05	--- U	--- U
4. Delta-BHC	0.030	0.05	--- U	--- U
5. Gamma-BHC (Lindane)	0.032	0.05	--- U	--- U
6. Chlordane	0.320	0.50	--- U	--- U
7. 4,4-DDD	0.051	0.10	--- U	--- U
8. 4,4-DDE	0.049	0.10	--- U	--- U
9. 4,4-DDT	0.052	0.10	--- U	--- U
10. Dieldrin	0.042	0.075	--- U	--- U
11. Endosulfan I	0.056	0.10	--- U	--- U
12. Endosulfan II	0.046	0.10	--- U	--- U
13. Endosulfan Sulfate	0.072	0.10	--- U	--- U
14. Endrin	0.053	0.10	--- U	--- U
15. Endrin Aldehyde	0.068	0.10	--- U	--- U
16. Heptachlor	0.039	0.05	--- U	--- U
17. Heptachlor Epoxide	0.042	0.075	--- U	--- U
18. Methoxychlor	0.530	1.00	--- U	--- U
19. Pcb's (Aroclors)	0.500	2.00	--- U	--- U
20. Toxaphene	0.690	1.50	--- U	--- U

NOTE: Surrogate recovery for wells 4 & 1R was outside control limits due to matrix interference

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

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Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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

PHONE (252) 756-6208
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CLIENT: GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL, NC 28580

REVIEWED BY:

CLIENT ID: 6005 A

ANALYST: CHS
DATE COLLECTED: 09/27/10
DATE EXTRACTED: 09/30/10
DATE ANALYZED: 09/30/10
DATE REPORTED: 10/25/10

LANDFILL APPENDIX II
EPA METHOD 8151A

PARAMETERS, ug/l	MDL	SWSL	Well #4	Well #1R
1. 2,4-D	0.36	2.0	--- U	--- U
2. Dinoseb	0.54	1.0	--- U	--- U
3. 2,4,5-TP	0.42	2.0	--- U	--- U
4. 2,4,5-T	0.47	2.0	--- 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: GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL, NC 28580

CLIENT ID: 6005 A

ANALYST: CHS
DATE COLLECTED: 09/27/10
DATE EXTRACTED: 09/28/10
DATE ANALYZED: 09/28/10
DATE REPORTED: 10/25/10

REVIEWED BY:

SEMI-VOLATILE ORGANICS
EPA METHOD 8270C

PARAMETERS, ug/l	MDL	SWSL	Well #4	Well #1R
1. Acenaphthene	2.66	10.0	--- U	--- U
2. Acenaphthylene	2.60	10.0	--- U	--- U
3. Anthracene	2.97	10.0	--- U	--- U
4. Benzo[a]antrhacene	4.16	10.0	--- U	--- U
5. Benzo[b]fluoranthene	3.32	10.0	--- U	--- U
6. Benzo[k]fluoranthene	4.23	10.0	--- U	--- U
7. Benzo[g,h,i]perylene	2.61	10.0	--- U	--- U
8. Benzo[a]pyrene	3.27	10.0	--- U	--- U
9. 4-Bromophenyl Phenyl Ether	2.63	10.0	--- U	--- U
10. Butyl Benzyl Phthalate	5.78	10.0	--- U	--- U
11. Bis-(2-Chloroethoxy) Methane	3.14	10.0	--- U	--- U
12. Bis-(2-Chloroethyl) Ether	2.58	10.0	--- U	--- U
13. Bis-(2-Chloroisopropyl) Ether	2.58	10.0	--- U	--- U
14. 2-Chloronaphthalene	2.17	10.0	--- U	--- U
15. 4-Chlorophenyl Phenyl Ether	2.42	10.0	--- U	--- U
16. Chrysene	4.04	10.0	--- U	--- U
17. Dibenzo[a,h]anthracene	2.78	10.0	--- U	--- U
18. Di-N-Butyl Phthalate	3.09	10.0	--- U	--- U
19. Dimethyl Phthalate	3.78	10.0	--- U	--- U
20. Diethyl Phthalate	3.92	6000	--- U	--- U
21. 2,4-Dinitrotoluene	3.95	10.0	--- U	--- U
22. 2,6-Dinitrotoluene	3.88	10.0	--- U	--- U
23. Di-N-Octyl Phthalate	2.81	10.0	--- U	--- U
24. Bis-(2-Ethylhexyl) Phthalate	9.97	15.0	--- U	--- U
25. Fluoranthene	3.92	10.0	--- U	--- U
26. Fluorene	2.95	10.0	--- U	--- U
27. Hexachlorobenzene	2.61	10.0	--- U	--- U
28. Hexachlorocyclopentadiene	4.16	10.0	--- U	--- U
29. Indeno[1,2,3-Cd]pyrene	2.91	10.0	--- U	--- U
30. Isophorone	3.74	10.0	--- U	--- U
31. Nitrobenzene	2.85	10.0	--- U	--- U
32. N-Nitrosodimethylamine	4.25	10.0	--- U	--- U
33. N-Nitrosodiphenylamine	3.95	10.0	--- U	--- U
34. N-Nitrosodi-N-Propylamine	4.06	10.0	--- U	--- U
35. Phenanthrene	3.24	10.0	--- U	--- U
36. Pyrene	3.63	10.0	--- U	--- U
37. 4-Chloro-3-Methylphenol	3.79	20.0	--- U	--- U
38. 2-Chlorophenol	2.75	10.0	--- U	--- U
39. O-Cresol	3.68	10.0	--- U	--- U
40. P-Cresol	4.12	10.0	--- U	--- U
41. 2,4-Dichlorophenol	5.19	10.0	--- U	--- U
42. 2,6-Dichlorophenol	4.89	10.0	--- U	--- U
43. 2,4-Dimethylphenol	3.21	10.0	--- U	--- U
44. 4,6-Dinitro-2-Methylphenol	4.77	50.0	--- U	--- U
45. 2,4-Dinitrophenol	4.37	50.0	--- U	--- U
46. Ethyl Methanesulfonate	5.26	20.0	--- U	--- U
47. Methyl Methanesulfonate	4.92	10.0	--- U	--- U
48. 2-Nitrophenol	3.64	10.0	--- 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: GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL, NC 28580

CLIENT ID: 6005 A

ANALYST: CHS
DATE COLLECTED: 09/27/10
DATE EXTRACTED: 09/28/10
DATE ANALYZED: 09/28/10
DATE REPORTED: 10/25/10

REVIEWED BY: _____

SEMI-VOLATILE ORGANICS
EPA METHOD 8270C

PARAMETERS, ug/l	MDL	SWSL	Well #4	Well #1R
49. 4-Nitrophenol	3.17	50.0	--- U	--- U
50. Pentachlorophenol	5.33	25.0	--- U	--- U
51. Phenol	1.86	10.0	--- U	--- U
52. 2,3,4,6-Tetrachlorophenol	3.12	10.0	--- U	--- U
53. 2,4,5-Trichlorophenol	4.17	10.0	--- U	--- U
54. 2,4,6-Trichlorophenol	3.84	10.0	--- U	--- U
55. Acetophenone	2.89	10.0	--- U	--- U
56. 2-Acetylaminofluorene	3.98	20.0	--- U	--- U
57. 4-Aminobiphenyl	4.12	20.0	--- U	--- U
58. Benzyl Alcohol	4.47	20.0	--- U	--- U
59. 4-Chloroaniline	3.36	20.0	--- U	--- U
60. Chlorobenzilate	5.12	10.0	--- U	--- U
61. Diallate	2.98	10.0	--- U	--- U
62. Dibenzofuran	4.28	10.0	--- U	--- U
63. 3,3-Dichlorobenzidine	4.22	20.0	--- U	--- U
64. Dimethoate	3.98	20.0	--- U	--- U
65. P-Dimethylaminoazobenzene	2.89	10.0	--- U	--- U
66. 7,12-Dimethylbenz[a]anthracene	5.26	10.0	--- U	--- U
67. 3,3-Dimethylbenzadine	3.21	10.0	--- U	--- U
68. 1,3-Dinitrobenzene	2.89	20.0	--- U	--- U
69. Diphenylamine	5.10	10.0	--- U	--- U
70. Disulfoton	4.28	10.0	--- U	--- U
71. Famphur	3.98	20.0	--- U	--- U
72. Hexachloropropene	4.31	10.0	--- U	--- U
73. Isosafrole	2.88	10.0	--- U	--- U
74. Kepone	2.78	20.0	--- U	--- U
75. Methapyrilene	3.54	100.0	--- U	--- U
76. 3-Methylchloroanthrene	4.21	10.0	--- U	--- U
77. 2-Methylnaphthalene	3.79	10.0	--- U	--- U
78. Methyl Parathion	4.32	10.0	--- U	--- U
79. m-Cresol	3.81	10.0	--- U	--- U
80. 1,4-Naphthoquinone	4.00	10.0	--- U	--- U
81. 1-Naphthylamine	5.61	10.0	--- U	--- U
82. 2-Naphthylamine	4.62	10.0	--- U	--- U
83. 2-Nitroaniline	3.61	50.0	--- U	--- U
84. 3-Nitroaniline	4.81	50.0	--- U	--- U
85. 4-Nitroaniline	4.22	20.0	--- U	--- U
86. 5-Nitro-O-Toluidine	4.01	10.0	--- U	--- U
87. N-Nitrosodi-n-butylamine	3.63	10.0	--- U	--- U
88. N-Nitrosodiethylamine	3.83	20.0	--- U	--- U
89. N-Nitrosomethylethylamine	3.83	10.0	--- U	--- U
90. N-Nitrosopiperidine	5.19	20.0	--- U	--- U
91. N-Nitrosopyrrolidine	2.89	10.0	--- U	--- U
92. Parathion	3.12	10.0	--- U	--- U
93. Pentachlorobenzene	3.92	10.0	--- U	--- U
94. Pentachloronitrobenzene	3.71	20.0	--- U	--- U
95. Phenacetin	4.41	20.0	--- U	--- U
96. 1,4 Benzenediamine	2.99	10.0	--- 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: GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL, NC 28580

CLIENT ID: 6005 A

ANALYST: CHS
DATE COLLECTED: 09/27/10
DATE EXTRACTED: 09/28/10
DATE ANALYZED: 09/28/10
DATE REPORTED: 10/25/10

REVIEWED BY: _____

SEMI-VOLATILE ORGANICS
EPA METHOD 8270C

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

NOTE: Surrogate recovery for well 4 was outside control limits due to 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
FAX (252) 756-0633

CLIENT: GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL, NC 28580

CLIENT ID: 6005 A

ANALYST: MAO
DATE COLLECTED: 09/27/10
DATE ANALYZED: 10/05/10
DATE REPORTED: 10/25/10

REVIEWED BY: _____

LANDFILL APPENDIX II
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Well #4	Well #1R	Equipment Blank	Trip Blank
1. Chloromethane	0.77	1.0	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.63	1.0	4.10	--- U	--- U	--- U
3. Bromomethane	0.67	10.0	--- U	--- U	--- U	--- U
4. Chloroethane	0.48	10.0	8.50 J	--- U	--- U	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U	--- U	--- U	--- U
7. Acetone	9.06	100.0	--- U	--- U	--- U	--- U
8. Iodomethane	0.26	10.0	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.23	100.0	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.64	1.0	0.70 J	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.20	5.0	1.70 J	--- U	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	6.80	--- U	--- U	--- U
15. 2-Butanone	2.21	100.0	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.27	3.0	--- U	--- U	--- U	--- U
17. Chloroform	0.25	5.0	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U	--- U	--- U	--- U
20. Benzene	0.24	1.0	2.50	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.21	1.0	--- U	--- U	--- U	--- U
22. Trichloroethene	0.23	1.0	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.21	1.0	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U	--- U	--- U	--- U
27. Toluene	0.23	1.0	1.00	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.17	1.0	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.57	50.0	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.24	3.0	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.30	3.0	0.90 J	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.21	1.0	--- U	--- U	--- U	--- U
37. Xylenes	0.68	5.0	--- U	--- U	--- U	--- U
38. Dibromomethane	0.28	10.0	--- U	--- U	--- U	--- U
39. Styrene	0.19	1.0	--- U	--- U	--- U	--- U
40. Bromoform	0.20	3.0	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	3.00	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U	--- U	--- U	--- U
46. Acrylonitrile	2.72	200.0	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U	--- U	--- U	--- U
48. Acrolein	40.57	53.0	--- U	--- U	--- U	--- U

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

<<< LABORATORY COPY >>>

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: GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL, NC 28580

CLIENT ID: 6005 A

ANALYST: MAO
DATE COLLECTED: 09/27/10
DATE ANALYZED: 10/05/10
DATE REPORTED: 10/25/10

REVIEWED BY: _____

LANDFILL APPENDIX II
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Well #4	Well #1R	Equipment Blank	Trip Blank
49. Allyl Chloride	0.20	10.0	--- U	--- U	--- U	--- U
50. Chloroprene	0.21	20.0	--- U	--- U	--- U	--- U
51. 1,3-Dichlorobenzene	0.41	5.0	--- U	--- U	--- U	--- U
52. Dichlorodifluoromethane	0.51	5.0	--- U	--- U	--- U	--- U
53. 1,3-Dichloropropane	0.28	1.0	--- U	--- U	--- U	--- U
54. 2,2-Dichloropropane	0.17	15.0	--- U	--- U	--- U	--- U
55. 1,1-Dichloropropene	0.22	5.0	--- U	--- U	--- U	--- U
56. Ethyl Methacrylate	0.16	10.0	--- U	--- U	--- U	--- U
57. Hexachlorobutadiene	0.57	10.0	--- U	--- U	--- U	--- U
58. Isobutyl Alcohol	12.80	100.0	--- U	--- U	--- U	--- U
59. Methacrylonitrile	1.93	100.0	--- U	--- U	--- U	--- U
60. Methyl Methacrylate	0.25	30.0	--- U	--- U	--- U	--- U
61. Naphthalene	0.47	10.0	--- U	--- U	--- U	--- U
62. Propionitrile	3.26	150.0	--- U	--- U	--- U	--- U
63. 1,2,4-Trichlorobenzene	0.50	10.0	--- U	--- U	--- U	--- U
64. Acetonitrile	36.29	55.0	--- U	--- U	--- U	--- U

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

<<< LABORATORY COPY >>>

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: 6005 A **Week:** 37

GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL NC 28580

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

CHLORINE NEUTRALIZED AT COLLECTION																		
pH CHECK (LAB)			<2		<2			>12					9					
CONTAINER TYPE, P/G	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
CHEMICAL PRESERVATION	A	A	C	A	C	A	A	D	A	A	A	F D	A	A	A			

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

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field pH	BOD	COD	Nitrate	TOC	Alkalinity	Chloride	Cyanide	Sulfate	Metals	Turbidity	Sulfide	Conductivity	DO	Temperature	Field Parameter
Well #4	09 27 10	1505		1828	18	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Well #1R	09 27 10	1200		2221	18	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Equipment Blank	09 27 10	0905			3										G						
Trip Blank					2																

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)
H Hogge / E Q

SAMPLES RECEIVED IN LAB AT 1.6 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob Hogge	09 27 10 4:45PM	[illegible]	9/27/10 4:45PM
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.

№ 209136

FORM #5

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: **6005 A** **Week: 37**

GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL NC 28580

DISINFECTION: ☐ CHLORINE ☐ UV ☐ NONE ☐ _____

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	8260 Dup. 1	EPA 8270C	8270C Dup. 1	EPA 8081B	8081B Duplicate	8260B App. II	8151A Landfill	CO2	ORP
CHLORINE NEUTRALIZED AT COLLECTION														
pH CHECK (LAB)														
CONTAINER TYPE, P/G						G	G	G	G	G	G	G	P	P
CHEMICAL PRESERVATION						E	A	A	A	A	E	A	A	A
Well #4	09 27 10	1505		18.28	18	G	G	G	G	G	G	G	G	G
Well #1R	09 27 10	1200		22.21	18	G	G	G	G	G	G	G	G	G
Equipment Blank	09 27 10	0905			3	G					G			
Trip Blank					2	G					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
☒ SOLID WASTE SECTION

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

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

SAMPLES RECEIVED IN LAB AT 1.6 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Rob H Jones	09 27 10 4:45pm	[illegible]	9/27/10 4:45pm
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

№ 209135

microseeps
from insight comes solutions

Client Name: Environment 1, Inc.
Contact: Steve Jones
Address: PO Box 7085
114 Oakmont Drive
Greenville, NC 27835

Page: Page 1 of 3
Lab Proj #: P1009447
Report Date: 10/12/10
Client Proj Name: Greene County
Client Proj #: Greene County

Laboratory Results

Total pages in data package: 4

Lab Sample #	Client Sample ID
P1009447-01	WL1R
P1009447-02	WEL 4

Microseeps test results meet all the requirements of the NELAC standards or provide reasons and/or justification if they do not.

Approved By: Heather Hauser ***Date:*** 10·12·10

Project Manager: Heather Hauser

The analytical results reported here are reliable and usable to the precision expressed in this report. As required by some regulating authorities, a full discussion of the uncertainty in our analytical results can be obtained at our web site or through customer service. Unless otherwise specified, all results are reported on a wet weight basis.

As a valued client we would appreciate your comments on our service.
Please call customer service at (412)826-5245 or email customerservice@microseeps.com.

Case Narrative:

Client Name: Environment 1, Inc.
Contact: Steve Jones
Address: PO Box 7085
114 Oakmont Drive
Greenville, NC 27835

Page: Page 2 of 3
Lab Proj #: P1009447
Report Date: 10/12/10
Client Proj Name: Greene County
Client Proj #: Greene County

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
WL1R	Vapor	P1009447-01	27 Sep. 10 12:00	29 Sep. 10 13:06

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
N Ethane	<0.010	0.010	ug/L	AM20GAX	10/8/10	sl
N Ethene	<0.010	0.010	ug/L	AM20GAX	10/8/10	sl
N Hydrogen	1.600	0.600	nM	AM20GAX	10/8/10	sl
N Methane	0.890	0.015	ug/L	AM20GAX	10/8/10	sl
SemiVolatiles						
N Acetic Acid	<0.070	0.070	mg/L	AM23G	10/5/10	kb
N Butyric Acid	<0.050	0.050	mg/L	AM23G	10/5/10	kb
N Hexanoic Acid	<0.050	0.050	mg/L	AM23G	10/5/10	kb
N i-Hexanoic Acid	<0.050	0.050	mg/L	AM23G	10/5/10	kb
N i-Pentanoic Acid	<0.150	0.150	mg/L	AM23G	10/5/10	kb
N Lactic Acid	<0.100	0.100	mg/L	AM23G	10/5/10	kb
N Pentanoic Acid	<0.070	0.070	mg/L	AM23G	10/5/10	kb
N Propionic Acid	<0.050	0.050	mg/L	AM23G	10/5/10	kb
N Pyruvic Acid	<0.150	0.150	mg/L	AM23G	10/5/10	kb

N - NELAC certified analysis
PA02-00538

Client Name: Environment 1, Inc.
Contact: Steve Jones
Address: PO Box 7085
114 Oakmont Drive
Greenville, NC 27835

Lab Proj #: P1009447
Report Date: 10/12/10
Client Proj Name: Greene County
Client Proj #: Greene County

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
WEL 4	Vapor	P1009447-02	27 Sep. 10 15:05	29 Sep. 10 13:06

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
N Ethane	<0.010	0.010	ug/L	AM20GAX	10/8/10	sl
N Ethene	0.080	0.010	ug/L	AM20GAX	10/8/10	sl
N Hydrogen	2.000	0.600	nM	AM20GAX	10/8/10	sl
N Methane	450.000	0.015	ug/L	AM20GAX	10/8/10	sl
SemiVolatiles						
N Acetic Acid	<0.070	0.070	mg/L	AM23G	10/5/10	kb
N Butyric Acid	<0.050	0.050	mg/L	AM23G	10/5/10	kb
N Hexanoic Acid	<0.050	0.050	mg/L	AM23G	10/5/10	kb
N i-Hexanoic Acid	<0.050	0.050	mg/L	AM23G	10/5/10	kb
N i-Pentanoic Acid	<0.150	0.150	mg/L	AM23G	10/5/10	kb
N Lactic Acid	<0.100	0.100	mg/L	AM23G	10/5/10	kb
N Pentanoic Acid	<0.070	0.070	mg/L	AM23G	10/5/10	kb
N Propionic Acid	<0.050	0.050	mg/L	AM23G	10/5/10	kb
N Pyruvic Acid	<0.150	0.150	mg/L	AM23G	10/5/10	kb

N - NELAC certified analysis
PA02-00538

Microseeps Lab. Proj. # _____

CHAIN - OF - CUSTODY RECORD

Microseeps COC cont. # 79

Phone: (412) 826-5245 | Microseeps, Inc. - 220 William Pitt Way - Pittsburgh, PA 15238 | Fax No. : (412) 826-3433

Company : ENVIRONMENT 1, INC

Co. Address : 114 OAKMONT DR, GREENVILLE, NC 27858

Phone # : 252-756-6208 Fax # : 252-756-0633

Proj. Manager : STEVE JONES

Proj. Name/Number : GREENE COUNTY LANDFILL

Sampler's signature : _____

Cooler Temp. 5°C

Results to : E1

Invoice to : E1

Sample ID	Sample Description	Sample Type: Water	Vapor	Solid	Date	Time	# bottles		ANAROBIC	LL VFA	METHANE/ETHANE/ETHENE								Remarks :
WL/R	WEL #1R	✓	✓		9/27/10	2000	4		✓	✓	✓								
WEL 4	WEL #4	✓	✓		9/27/10	1505	4		✓	✓	✓								

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
[signature]	ENVIRONMENT 1	9/28/10	9:15A				
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :

WHITE COPY : Accompany Samples YELLOW COPY : Laboratory File PINK COPY : Submitter

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#: 6005

GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL ,NC 28580

DATE COLLECTED: 03/21/11
DATE REPORTED : 04/26/11

REVIEWED BY:

PARAMETERS	MDL	SWSL	Upstream	Downstream	Well #4	Well #5	Well #6	Analysis Date	Analyst	Method Code
PH (field measurement), Units			Missing	5.30	5.53	4.52	4.74	03/21/11	RJH	SM4500HB
BOD, mg/l	2.0	2.0			4.2			03/22/11	TRB	SM5210B
COD, mg/l	10.0	10.0			40			03/22/11	TRB	HACH8000
Nitrate Nitrogen as N, mg/l	0.03	10.0			0.05 J			03/23/11	ANO	EPA353.2
Total Organic Carbon, mg/l	0.30	1.0			6.63			03/23/11	SEJ	SM5310C
Total Alkalinity, mg/l	1.0	1.0			121			03/21/11	TRB	SM2320B
Chloride, mg/l	5.0	5.0			10			03/24/11	HLB	SM4500-CLB
Sulfate, mg/l	5.0	250.0			--- U			03/28/11	TRB	SM426C
Antimony, ug/l	0.14	6.0	Missing	--- U	--- U	--- U	--- U	04/04/11	CMF	EPA200.8
Arsenic, ug/l	0.10	10.0	Missing	0.70 J	1.8 J	4.4 J	1.2 J	04/04/11	CMF	EPA200.8
Barium, ug/l	0.02	100.0	Missing	25.5 J	54.3 J	36.0 J	34.4 J	04/04/11	CMF	EPA200.8
Beryllium, ug/l	0.02	1.0	Missing	--- U	0.10 J	0.18 J	0.28 J	04/04/11	CMF	EPA200.8
Cadmium, ug/l	0.02	1.0	Missing	--- U	0.09 J	0.07 J	0.08 J	04/04/11	CMF	EPA200.8
Cobalt, ug/l	0.03	10.0	Missing	0.45 J	0.65 J	0.54 J	0.71 J	04/04/11	CMF	EPA200.8
Copper, ug/l	0.02	10.0	Missing	0.78 J	1.7 J	1.3 J	0.98 J	04/04/11	CMF	EPA200.8
Total Chromium, ug/l	0.04	10.0	Missing	0.77 J	1.1 J	0.85 J	5.9 J	04/04/11	CMF	EPA200.8
Iron, ug/l	15.9	300.0			56500			03/30/11	ADD	SM3111B
Lead, ug/l	0.02	10.0	Missing	0.74 J	2.0 J	3.5 J	5.5 J	04/04/11	CMF	EPA200.8
Mercury, ug/l	0.05	0.20			--- U	0.13 J		04/04/11	CMF	EPA200.8
Nickel, ug/l	0.04	50.0	Missing	0.52 J	0.86 J	0.90 J	1.1 J	04/04/11	CMF	EPA200.8
Selenium, ug/l	0.20	10.0	Missing	--- U	0.51 J	--- U	--- U	04/04/11	CMF	EPA200.8
Silver, ug/l	0.02	10.0	Missing	--- U	0.04 J	0.04 J	--- U	04/04/11	CMF	EPA200.8
Thallium, ug/l	0.02	5.5	Missing	0.03 J	0.15 J	0.06 J	0.10 J	04/04/11	CMF	EPA200.8
Tin, ug/l	0.16	100.0			0.52 J	0.44 J	0.46 J	04/04/11	CMF	EPA200.8
Vanadium, ug/l	0.14	25.0	Missing	1.9 J	4.8 J	2.1 J	8.0 J	04/04/11	CMF	EPA200.8
Zinc, ug/l	0.24	10.0	Missing	3.2 J	1.9 J	4.8 J	9.0 J	04/04/11	CMF	EPA200.8
Turbidity, NTU	1.0	1.0	Missing	11	85	119	39	03/21/11	RJH	SM2130B
Sulfide, ug/l	100	1000			386 J			03/28/11	LPJ	SM4500-S2D
Conductivity (at 25c), uMhos	1.0	1.0	Missing	84	270	66	39	03/21/11	RJH	SM2510B
Dissolved Oxygen, mg/l	0.1	0.1	Missing	4.28	2.15	3.06	2.02	03/21/11	RJH	SM4500OG
Temperature, °C			Missing	12.61	17.35	17.74	14.26	03/21/11	RJH	SM2550B
Static Water Level, feet					18.43	19.11	6.33	03/21/11	RJH	
Well Depth, feet					26.16	28.34	26.87	03/21/11	RJH	
8260 (duplicate)			Missing							
Carbon Dioxide, mg/l	1.0	1.0			326			03/21/11	TRB	SM4500CO2C
ORP, mv			Missing	283.3	-26.4	286.2	255.8	03/21/11	RJH	SM2580B

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#: 6005

GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL ,NC 28580

DATE COLLECTED: 03/21/11
DATE REPORTED : 04/26/11

REVIEWED BY:

PARAMETERS	MDL	SWSL	Well #7	Well #8	Well #1R	Piezometer #2	Equipment Blank	Analysis Date	Analyst	Method Code
PH (field measurement), Units			4.33	4.72	4.38			03/21/11	RJH	SM4500HB
BOD, mg/l	2.0	2.0			--- U			03/22/11	TRB	SM5210B
COD, mg/l	10.0	10.0			16			03/22/11	TRB	HACH8000
Nitrate Nitrogen as N, mg/l	0.03	10.0			3.17 J			03/23/11	ANO	EPA353.2
Total Organic Carbon, mg/l	0.30	1.0			--- U			03/23/11	SEJ	SM5310C
Total Alkalinity, mg/l	1.0	1.0			--- U			03/21/11	TRB	SM2320B
Chloride, mg/l	5.0	5.0			222			03/24/11	HLB	SM4500-CLB
Sulfate, mg/l	5.0	250.0			5.2 J			03/28/11	TRB	SM426C
Antimony, ug/l	0.14	6.0	--- U	--- U	--- U		--- U	04/04/11	CMF	EPA200.8
Arsenic, ug/l	0.10	10.0	0.76 J	1.6 J	0.17 J		--- U	04/04/11	CMF	EPA200.8
Barium, ug/l	0.02	100.0	37.3 J	49.8 J	252		0.07 J	04/04/11	CMF	EPA200.8
Beryllium, ug/l	0.02	1.0	0.17 J	0.54 J	0.29 J		--- U	04/04/11	CMF	EPA200.8
Cadmium, ug/l	0.02	1.0	0.04 J	0.12 J	0.19 J		--- U	04/04/11	CMF	EPA200.8
Cobalt, ug/l	0.03	10.0	0.65 J	0.61 J	0.91 J		--- U	04/04/11	CMF	EPA200.8
Copper, ug/l	0.02	10.0	0.85 J	2.0 J	1.2 J		0.05 J	04/04/11	CMF	EPA200.8
Total Chromium, ug/l	0.04	10.0	2.8 J	7.3 J	--- U		--- U	04/04/11	CMF	EPA200.8
Iron, ug/l	15.9	300.0			315			03/30/11	ADD	SM3111B
Lead, ug/l	0.02	10.0	1.3 J	15	2.0 J		--- U	04/04/11	CMF	EPA200.8
Mercury, ug/l	0.05	0.20			--- U		--- U	04/04/11	CMF	EPA200.8
Nickel, ug/l	0.04	50.0	0.76 J	0.98 J	1.8 J		--- U	04/04/11	CMF	EPA200.8
Selenium, ug/l	0.20	10.0	--- U	0.28 J	0.26 J		--- U	04/04/11	CMF	EPA200.8
Silver, ug/l	0.02	10.0	--- U	--- U	--- U		--- U	04/04/11	CMF	EPA200.8
Thallium, ug/l	0.02	5.5	0.11 J	0.09 J	0.30 J		--- U	04/04/11	CMF	EPA200.8
Tin, ug/l	0.16	100.0	0.43 J	0.67 J	0.41 J		--- U	04/04/11	CMF	EPA200.8
Vanadium, ug/l	0.14	25.0	3.4 J	21.6 J	--- U		--- U	04/04/11	CMF	EPA200.8
Zinc, ug/l	0.24	10.0	3.1 J	9.0 J	8.1 J		0.34 J	04/04/11	CMF	EPA200.8
Turbidity, NTU	1.0	1.0	107	459	2			03/21/11	RJH	SM2130B
Sulfide, ug/l	100	1000			--- U			03/28/11	LFJ	SM4500-S2D
Conductivity (at 25c), uMhos	1.0	1.0	46	34	75			03/21/11	RJH	SM2510B
Dissolved Oxygen, mg/l	0.1	0.1	6.47	7.07	1.78			03/21/11	RJH	SM4500OG
Temperature, °C			16.04	17.14	13.60			03/21/11	RJH	SM2550B
Static Water Level, feet			14.29	11.68	4.75	15.14		03/21/11	RJH	
Well Depth, feet			21.38	20.24	19.51			03/21/11	RJH	
Carbon Dioxide, mg/l	1.0	1.0			60			03/21/11	TRB	SM4500CO2C
ORP, mv			377.2	330.8	362.9			03/21/11	RJH	SM2580B

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#: 6005

GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL ,NC 28580

DATE COLLECTED: 03/21/11
DATE REPORTED : 04/26/11

REVIEWED BY:

PARAMETERS	MDL	SWSL	Trip Blank	Field Blank	Analysis Date	Analyst	Method Code
Antimony, ug/l	0.14	6.0	--- U	--- U	04/04/11	CMF	EPA200.8
Arsenic, ug/l	0.10	10.0	--- U	--- U	04/04/11	CMF	EPA200.8
Barium, ug/l	0.02	100.0	--- U	0.08 J	04/04/11	CMF	EPA200.8
Beryllium, ug/l	0.02	1.0	--- U	--- U	04/04/11	CMF	EPA200.8
Cadmium, ug/l	0.02	1.0	--- U	--- U	04/04/11	CMF	EPA200.8
Cobalt, ug/l	0.03	10.0	--- U	--- U	04/04/11	CMF	EPA200.8
Copper, ug/l	0.02	10.0	0.30 J	--- U	04/04/11	CMF	EPA200.8
Total Chromium, ug/l	0.04	10.0	--- U	--- U	04/04/11	CMF	EPA200.8
Lead, ug/l	0.02	10.0	--- U	--- U	04/04/11	CMF	EPA200.8
Nickel, ug/l	0.04	50.0	0.04 J	--- U	04/04/11	CMF	EPA200.8
Selenium, ug/l	0.20	10.0	--- U	--- U	04/04/11	CMF	EPA200.8
Silver, ug/l	0.02	10.0	--- U	--- U	04/04/11	CMF	EPA200.8
Thallium, ug/l	0.02	5.5	--- U	--- U	04/04/11	CMF	EPA200.8
Vanadium, ug/l	0.14	25.0	--- U	--- U	04/04/11	CMF	EPA200.8
Zinc, ug/l	0.24	10.0	--- U	--- U	04/04/11	CMF	EPA200.8

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: GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL, NC 28580

CLIENT ID: 6005

ANALYST: MAO
DATE COLLECTED: 03/21/11
DATE REPORTED: 04/26/11

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Date Analyzed: 03/31/11 Downstream	03/31/11 Well #4	04/01/11 Well #5	04/01/11 Well #6	04/01/11 Well #7
1. Chloromethane	0.77	1.0	--- U	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.63	1.0	--- U	5.40	--- U	--- U	--- U
3. Bromomethane	0.67	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.48	10.0	--- U	9.60 J	--- 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	0.80 J	--- 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	1.10 J	--- U	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	--- U	6.20	1.60 J	--- U	--- U
15. 2-Butanone	2.21	100.0	--- U	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.27	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.25	5.0	--- U	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.24	1.0	--- U	3.00	0.30 J	--- U	--- U
21. 1,2-Dichloroethane	0.27	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.23	1.0	--- U	0.30 J	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.23	1.0	0.60 J	0.30 J	--- 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	1.00 J	--- 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	0.30 J	--- 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	2.90	--- 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: GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL, NC 28580

CLIENT ID: 6005

ANALYST: MAO
DATE COLLECTED: 03/21/11
DATE REPORTED: 04/26/11

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	04/01/11 Well #8	04/01/11 Well #1R	04/01/11 Equipment Blank	04/01/11 Trip Blank	04/01/11 Field Blank
	Date Analyzed:						
1. Chloromethane	0.77	1.0	--- U	--- U	3.00	--- U	2.20
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	0.30 J	--- 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: GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL, NC 28580

CLIENT ID: 6005

ANALYST: CHS
DATE COLLECTED: 03/21/11
DATE EXTRACTED: 03/28/11
DATE ANALYZED: 04/07/11
DATE REPORTED: 04/26/11

REVIEWED BY:

SEMI-VOLATILE ORGANICS
EPA METHOD 8270C

PARAMETERS, ug/l	MDL	SWSL	Well #6	Well #1R	Equipment Blank
1. Acenaphthene	2.66	10.0	--- U	--- U	--- U
2. Acenaphthylene	2.60	10.0	--- U	--- U	--- U
3. Anthracene	2.97	10.0	--- U	--- U	--- U
4. Benzo[a]antrhacene	4.16	10.0	--- U	--- U	--- U
5. Benzo[b]fluoranthene	3.32	10.0	--- U	--- U	--- U
6. Benzo[k]fluoranthene	4.23	10.0	--- U	--- U	--- U
7. Benzo[g,h,i]perylene	2.61	10.0	--- U	--- U	--- U
8. Benzo[a]pyrene	3.27	10.0	--- U	--- U	--- U
9. 4-Bromophenyl Phenyl Ether	2.63	10.0	--- U	--- U	--- U
10. Butyl Benzyl Phthalate	5.78	10.0	--- U	--- U	--- U
11. Bis-(2-Chloroethoxy) Methane	3.14	10.0	--- U	--- U	--- U
12. Bis-(2-Chloroethyl) Ether	2.58	10.0	--- U	--- U	--- U
13. Bis-(2-Chloroisopropyl) Ether	2.58	10.0	--- U	--- U	--- U
14. 2-Chloronaphthalene	2.17	10.0	--- U	--- U	--- U
15. 4-Chlorophenyl Phenyl Ether	2.42	10.0	--- U	--- U	--- U
16. Chrysene	4.04	10.0	--- U	--- U	--- U
17. Dibenzo[a,h]anthracene	2.78	10.0	--- U	--- U	--- U
18. Di-N-Butyl Phthalate	3.09	10.0	--- U	--- U	--- U
19. Dimethyl Phthalate	3.78	10.0	--- U	--- U	--- U
20. Diethyl Phthalate	3.92	6000	--- U	--- U	--- U
21. 2,4-Dinitrotoluene	3.95	10.0	--- U	--- U	--- U
22. 2,6-Dinitrotoluene	3.88	10.0	--- U	--- U	--- U
23. Di-N-Octyl Phthalate	2.81	10.0	--- U	--- U	--- U
24. Bis-(2-Ethylhexyl) Phthalate	9.97	15.0	--- U	--- U	--- U
25. Fluoranthene	3.92	10.0	--- U	--- U	--- U
26. Fluorene	2.95	10.0	--- U	--- U	--- U
27. Hexachlorobenzene	2.61	10.0	--- U	--- U	--- U
28. Hexachlorocyclopentadiene	4.16	10.0	--- U	--- U	--- U
29. Indeno[1,2,3-Cd]pyrene	2.91	10.0	--- U	--- U	--- U
30. Isophorone	3.74	10.0	--- U	--- U	--- U
31. Nitrobenzene	2.85	10.0	--- U	--- U	--- U
32. N-Nitrosodimethylamine	4.25	10.0	--- U	--- U	--- U
33. N-Nitrosodiphenylamine	3.95	10.0	--- U	--- U	--- U
34. N-Nitrosodi-N-Propylamine	4.06	10.0	--- U	--- U	--- U
35. Phenanthrene	3.24	10.0	--- U	--- U	--- U
36. Pyrene	3.63	10.0	--- U	--- U	--- U
37. 4-Chloro-3-Methylphenol	3.79	20.0	--- U	--- U	--- U
38. 2-Chlorophenol	2.75	10.0	--- U	--- U	--- U
39. O-Cresol	3.68	10.0	--- U	--- U	--- U
40. P-Cresol	4.12	10.0	--- U	--- U	--- U
41. 2,4-Dichlorophenol	5.19	10.0	--- U	--- U	--- U
42. 2,6-Dichlorophenol	4.89	10.0	--- U	--- U	--- U
43. 2,4-Dimethylphenol	3.21	10.0	--- U	--- U	--- U
44. 4,6-Dinitro-2-Methylphenol	4.77	50.0	--- U	--- U	--- U
45. 2,4-Dinitrophenol	4.37	50.0	--- U	--- U	--- U
46. Ethyl Methanesulfonate	5.26	20.0	--- U	--- U	--- U
47. Methyl Methanesulfonate	4.92	10.0	--- U	--- U	--- U
48. 2-Nitrophenol	3.64	10.0	--- 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
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CLIENT: GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL, NC 28580

CLIENT ID: 6005

ANALYST: CHS
DATE COLLECTED: 03/21/11
DATE EXTRACTED: 03/28/11
DATE ANALYZED: 04/07/11
DATE REPORTED: 04/26/11

REVIEWED BY:

SEMI-VOLATILE ORGANICS
EPA METHOD 8270C

PARAMETERS, ug/l	MDL	SWSL	Well #6	Well #1R	Equipment Blank
49. 4-Nitrophenol	3.17	50.0	--- U	--- U	--- U
50. Pentachlorophenol	5.33	25.0	--- U	--- U	--- U
51. Phenol	1.86	10.0	--- U	--- U	--- U
52. 2,3,4,6-Tetrachlorophenol	3.12	10.0	--- U	--- U	--- U
53. 2,4,5-Trichlorophenol	4.17	10.0	--- U	--- U	--- U
54. 2,4,6-Trichlorophenol	3.84	10.0	--- U	--- U	--- U
55. Acetophenone	2.89	10.0	--- U	--- U	--- U
56. 2-Acetylaminofluorene	3.98	20.0	--- U	--- U	--- U
57. 4-Aminobiphenyl	4.12	20.0	--- U	--- U	--- U
58. Benzyl Alcohol	4.47	20.0	--- U	--- U	--- U
59. 4-Chloroaniline	3.36	20.0	--- U	--- U	--- U
60. Chlorobenzilate	5.12	10.0	--- U	--- U	--- U
61. Diallate	2.98	10.0	--- U	--- U	--- U
62. Dibenzofuran	4.28	10.0	--- U	--- U	--- U
63. 3,3-Dichlorobenzidine	4.22	20.0	--- U	--- U	--- U
64. Dimethoate	3.98	20.0	--- U	--- U	--- U
65. P-Dimethylaminoazobenzene	2.89	10.0	--- U	--- U	--- U
66. 7,12-Dimethylbenz(a)anthracene	5.26	10.0	--- U	--- U	--- U
67. 3,3-Dimethylbenzadine	3.21	10.0	--- U	--- U	--- U
68. 1,3-Dinitrobenzene	2.89	20.0	--- U	--- U	--- U
69. Diphenylamine	5.10	10.0	--- U	--- U	--- U
70. Disulfoton	4.28	10.0	--- U	--- U	--- U
71. Famphur	3.98	20.0	--- U	--- U	--- U
72. Hexachloropropene	4.31	10.0	--- U	--- U	--- U
73. Isosafrole	2.88	10.0	--- U	--- U	--- U
74. Kepone	2.78	20.0	--- U	--- U	--- U
75. Methapyrilene	3.54	100.0	--- U	--- U	--- U
76. 3-Methylchloroanthrene	4.21	10.0	--- U	--- U	--- U
77. 2-Methylnaphthalene	3.79	10.0	--- U	--- U	--- U
78. Methyl Parathion	4.32	10.0	--- U	--- U	--- U
79. m-Cresol	3.81	10.0	--- U	--- U	--- U
80. 1,4-Naphthoquinone	4.00	10.0	--- U	--- U	--- U
81. 1-Naphthylamine	5.61	10.0	--- U	--- U	--- U
82. 2-Naphthylamine	4.62	10.0	--- U	--- U	--- U
83. 2-Nitroaniline	3.61	50.0	--- U	--- U	--- U
84. 3-Nitroaniline	4.81	50.0	--- U	--- U	--- U
85. 4-Nitroaniline	4.22	20.0	--- U	--- U	--- U
86. 5-Nitro-O-Toluidine	4.01	10.0	--- U	--- U	--- U
87. N-Nitrosodi-n-butylamine	3.63	10.0	--- U	--- U	--- U
88. N-Nitrosodiethylamine	3.83	20.0	--- U	--- U	--- U
89. N-Nitrosomethylethylamine	3.83	10.0	--- U	--- U	--- U
90. N-Nitrosopiperidine	5.19	20.0	--- U	--- U	--- U
91. N-Nitrosopyrrolidine	2.89	10.0	--- U	--- U	--- U
92. Parathion	3.12	10.0	--- U	--- U	--- U
93. Pentachlorobenzene	3.92	10.0	--- U	--- U	--- U
94. Pentachloronitrobenzene	3.71	20.0	--- U	--- U	--- U
95. Phenacetin	4.41	20.0	--- U	--- U	--- U
96. 1,4 Benzenediamine	2.99	10.0	--- 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: GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL, NC 28580

CLIENT ID: 6005

ANALYST: CHS
DATE COLLECTED: 03/21/11
DATE EXTRACTED: 03/28/11
DATE ANALYZED: 04/07/11
DATE REPORTED: 04/26/11

REVIEWED BY:

SEMI-VOLATILE ORGANICS
EPA METHOD 8270C

PARAMETERS, ug/l	MDL	SWSL	Well #6	Well #1R	Equipment Blank
97. Phorate	3.86	10.0	--- U	--- U	--- U
98. Pronamide	3.69	10.0	--- U	--- U	--- U
99. Safrole	4.12	10.0	--- U	--- U	--- U
100. 1,2,4,5-Tetrachlorobenzene	5.01	10.0	--- U	--- U	--- U
101. Thionazin	4.62	20.0	--- U	--- U	--- U
102. O-Toluidine	4.11	10.0	--- U	--- U	--- U
103. 1,3,5-Trinitrobenzene	3.98	10.0	--- U	--- U	--- U
104. 0,0,0-Triethyl Phosphorothioate	3.61	10.0	--- U	--- U	--- U
105. Hexachloroethane	1.49	10.0	--- U	--- U	--- U
106. Isodrin	3.11	20.0	--- U	--- U	--- U

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

Environmen[illegible], Inc.
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858

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

CHAIN OF CUSTODY RECORD

CLIENT: 6005 **Week: 16**

GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL NC 28580

( ) 747-5720

DISINFECTION: ☐ CHLORINE ☐ UV ☐ NONE ☐ _____

	Field pH	BOD	COD	Nitrate	TOC	Alkalinity	Chloride	Sulfate	Metals	Turbidity	Sulfide	Conductivity	DO	Temperature	Field Parameter	EPA 8260B	
CHLORINE NEUTRALIZED AT COLLECTION																	
pH CHECK (LAB)			<2	<2					<2	>9						<2	
CONTAINER TYPE, P/G	P	P	P	P	P	P	P	P	P	P	P	P	P	P		G	
CHEMICAL PRESERVATION	A	A	C	A	C	A	A	A	A	A	F D	A	A	A		E	

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

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l OR ug/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field pH	BOD	COD	Nitrate	TOC	Alkalinity	Chloride	Sulfate	Metals	Turbidity	Sulfide	Conductivity	DO	Temperature	Field Parameter	EPA 8260B
~~Upstream~~					4																
Downstream	03 21 11	1405		12.6	4	G								G	G		G	G	G		G
Well #4	03 21 11	1248		17.35	13	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Well #5	03 21 11	1158		17.74	4	G								G	G		G	G	G	G	G
Well #6	03 21 11	1315		14.26	6	G								G	G		G	G	G	G	G
Well #7	03 21 11	1135		16.04	4	G								G	G		G	G	G	G	G
Well #8	03 21 11	1120		17.14	4	G								G	G		G	G	G	G	G
Well #1R	03 21 11	1340		13.60	15	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Piezometer #2	03 21 11				1															G	
Equipment Blank	03 21 11	0930			5									G							G
Trip Blank					3																

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 Page / Fat

SAMPLES RECEIVED IN LAB AT 0.2 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob Hagge	03 21 11	[illegible]	3 21 340
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS: UP - 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

№ 220841

Environment[illegible], Inc.
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858

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

CHAIN OF CUSTODY RECORD

CLIENT: 6005 **Week:** 16

GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL NC 28580

( ) 747-5720

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

CHLORINE NEUTRALIZED AT COLLECTION																			
pH CHECK (LAB)			<2	<2				<2		>9					<2				
CONTAINER TYPE, P/G	P	P	P	P	P	P	P	P	P	P	P	P	P	P		G			
CHEMICAL PRESERVATION	A	A	C	A	C	A	A	A	A	A	F D	A	A	A		E			
PARAMETERS	Field pH	BOD	COD	Nitrate	TOC	Alkalinity	Chloride	Sulfate	Metals	Turbidity	Sulfide	Conductivity	DO	Temperature	Field Parameter	EPA 8260B			

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

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l OR ug/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field pH	BOD	COD	Nitrate	TOC	Alkalinity	Chloride	Sulfate	Metals	Turbidity	Sulfide	Conductivity	DO	Temperature	Field Parameter	EPA 8260B
Field Blank 03	21 11	0930			3									G							G

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

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

SAMPLES COLLECTED BY: (Please Print) R Jone / FOT

SAMPLES RECEIVED IN LAB AT 02. °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob H Jone 03	21 11		3/21 1345
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.

№ 220840

FORM #5

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: 6005 **Week: 16**

GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL NC 28580

( ) 747-5720

DISINFECTION: ☐ CHLORINE ☐ UV ☐ NONE ☐ _____

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l OR ug/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	8260 Dup. 1	8260 Dup. 2	EPA 8270C	8270C Dup. 1	CO2	ORP
CHLORINE NEUTRALIZED AT COLLECTION											
pH CHECK (LAB)						12	12				
CONTAINER TYPE, P/G						G	G	G	G	P	P
CHEMICAL PRESERVATION						E	E	A	A	A	A
Upstream					4	G					G
Downstream	03/21/11	1405		12.6	4	G					G
Well #4	03/21/11	1240		17.35	13	G				G	G
Well #5	03/21/11	1150		17.74	4	G					G
Well #6	03/21/11	1315		14.26	6	G		G	G		G
Well #7	03/21/11	1135		16.64	4	G					G
Well #8	03/21/11	1120		17.14	4	G					G
Well #1R	03/21/11	1340		13.60	15	G	G	G	G	G	G
Piezometer #2	03/21/11				1						
Equipment Blank	03/21/11	0930			5	G		G	G		
Trip Blank					3	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
☒ SOLID WASTE SECTION

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

SAMPLES COLLECTED BY: (Please Print) H. Rogoe / FOT

SAMPLES RECEIVED IN LAB AT 0-2

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob H Rogoe	03/21/11	[signature]	3/21 1344
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS: UP - 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

№ 220839

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: 6005 **Week: 16**

GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL NC 28580

( ) 747-5720

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

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l OR ug/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	8260 Dup. 1	8260 Dup. 2	EPA 8270C	8270C Dup. 1	CO2	ORP
CHLORINE NEUTRALIZED AT COLLECTION											
pH CHECK (LAB)						12					
CONTAINER TYPE, P/G						G	G	G	G	P	P
CHEMICAL PRESERVATION						E	E	A	A	A	A
Field Blank	03/21/11	0930			3	G					

PARAMETERS

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

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

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

SAMPLES COLLECTED BY:
(Please Print)
B Hagoe / F Ot

SAMPLES RECEIVED IN LAB AT 02 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob Hagoe	03/21/11		3/21 345
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

№ 220838

microseeps
from insight comes solutions

Client Name: Environment 1, Inc.
Contact: Steve Jones
Address: PO Box 7085
114 Oakmont Drive
Greenville, NC 27835

Page: Page 1 of 3
Lab Proj #: P1103263
Report Date: 04/06/11
Client Proj Name: Greene County
Client Proj #: Greene County

Laboratory Results

Total pages in data package: 4

Lab Sample #	Client Sample ID
P1103263-01	MW1R
P1103263-02	MW4

Microseeps test results meet all the requirements of the NELAC standards or provide reasons and/or justification if they do not.

Approved By: Heather Hauser ***Date:*** 4.6.11

Project Manager: Heather Hauser

The analytical results reported here are reliable and usable to the precision expressed in this report. As required by some regulating authorities, a full discussion of the uncertainty in our analytical results can be obtained at our web site or through customer service. Unless otherwise specified, all results are reported on a wet weight basis.

As a valued client we would appreciate your comments on our service.
Please call customer service at (412)826-5245 or email customerservice@microseeps.com.

Case Narrative:

Client Name: Environment 1, Inc.
Contact: Steve Jones
Address: PO Box 7085
114 Oakmont Drive
Greenville, NC 27835

Lab Proj #: P1103263
Report Date: 04/06/11
Client Proj Name: Greene County
Client Proj #: Greene County

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
MW1R	Vapor	P1103263-01	21 Mar. 11 13:40	23 Mar. 11 9:58

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
N Ethane	<0.010	0.010	ug/L	AM20GAX	4/5/11	gt
N Ethene	<0.010	0.010	ug/L	AM20GAX	4/5/11	gt
N Hydrogen	0.800	0.600	nM	AM20GAX	4/5/11	gt
N Methane	520.000	0.015	ug/L	AM20GAX	4/5/11	gt
SemiVolatiles						
N Acetic Acid	<0.070	0.070	mg/L	AM23G	4/1/11	kb
N Butyric Acid	<0.050	0.050	mg/L	AM23G	4/1/11	kb
N Hexanoic Acid	<0.050	0.050	mg/L	AM23G	4/1/11	kb
N i-Hexanoic Acid	<0.050	0.050	mg/L	AM23G	4/1/11	kb
N i-Pentanoic Acid	<0.150	0.150	mg/L	AM23G	4/1/11	kb
N Lactic Acid	0.190	0.100	mg/L	AM23G	4/1/11	kb
N Pentanoic Acid	<0.070	0.070	mg/L	AM23G	4/1/11	kb
N Propionic Acid	<0.050	0.050	mg/L	AM23G	4/1/11	kb
N Pyruvic Acid	<0.150	0.150	mg/L	AM23G	4/1/11	kb

N - NELAC certified analysis
PA02-00538

Client Name: Environment 1, Inc.
Contact: Steve Jones
Address: PO Box 7085
114 Oakmont Drive
Greenville, NC 27835

Lab Proj #: P1103263
Report Date: 04/06/11
Client Proj Name: Greene County
Client Proj #: Greene County

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
MW4	Vapor	P1103263-02	21 Mar. 11 12:40	23 Mar. 11 9:58

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
N Ethane	<0.010	0.010	ug/L	AM20GAX	4/5/11	gt
N Ethene	0.130	0.010	ug/L	AM20GAX	4/5/11	gt
N Hydrogen	0.890	0.600	nM	AM20GAX	4/5/11	gt
N Methane	4100.000	0.015	ug/L	AM20GAX	4/5/11	gt
SemiVolatiles						
N Acetic Acid	0.082	0.070	mg/L	AM23G	4/1/11	kb
N Butyric Acid	<0.050	0.050	mg/L	AM23G	4/1/11	kb
N Hexanoic Acid	<0.050	0.050	mg/L	AM23G	4/1/11	kb
N i-Hexanoic Acid	<0.050	0.050	mg/L	AM23G	4/1/11	kb
N i-Pentanoic Acid	<0.150	0.150	mg/L	AM23G	4/1/11	kb
N Lactic Acid	0.330	0.100	mg/L	AM23G	4/1/11	kb
N Pentanoic Acid	<0.070	0.070	mg/L	AM23G	4/1/11	kb
N Propionic Acid	0.085	0.050	mg/L	AM23G	4/1/11	kb
N Pyruvic Acid	<0.150	0.150	mg/L	AM23G	4/1/11	kb

N - NELAC certified analysis
PA02-00538

Microseeps Lab. Proj. # P1103263

CHAIN - OF - CUSTODY RECORD

Microseeps COC cont. # 1 of

Phone: (412) 826-5245 | Microseeps, Inc. - 220 William Pitt Way - Pittsburgh, PA 15238 | Fax No. : (412) 826-3433

Company : ENVIRONMENT 1, INC

Co. Address : 114 OAKMONT DR, GREENVILLE, NC 27858

Phone # : 252-756-6208 Fax # : 252-756-0635

Proj. Manager : STEVE JONES

Proj. Name/Number : GREENE COUNTY (6005)

Sampler's signature : Bobby Fox

Cooler Temp. 4°C 11/3/23

Results to : SAME

Invoice to : SAME

Parameters Requested: HYDROGEN, LL VFA, ETHANE, ETHENE, METHANE

Sample ID	Sample Description	Sample Type: Water	Vapor	Solid	Date	Time	# Bottles	HYDROGEN	LL VFA	ETHANE, ETHENE, METHANE	Remarks :
MW1R	MONITORING WELL 1R	✓	✓		3/21/11	1:40P	5	X	X	X	
MW4	WELL #4	✓	✓		3/21/11	2:40P	5	X	X	X	
											FACILITY ID# 4002
											PLEASE INCLUDE FACILITY ID # IN EDD FILE REPORT

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
[signature]	ENVIRONMENT 1	3/22/11	9:AM	[signature]	[signature]	3/23	10AM
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :

WHITE COPY : Accompany Samples YELLOW COPY : Laboratory File PINK COPY : Submitter

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#: 6005

GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL ,NC 28580

DATE COLLECTED: 09/28/11
DATE REPORTED : 11/15/11

REVIEWED BY:

PARAMETERS	MDL	SWSL	Upstream	Downstream	Well #4	Well #5	Well #6	Analysis Date	Analyst	Method Code
PH (field measurement), Units			Missing	5.80	5.52	4.64	4.65	09/28/11	RJH	SM4500HB
BOD, mg/l	2.0	2.0			10			09/28/11	TRB	SM5210B
COD, mg/l	20.0	20.0			39			10/04/11	TRB	HACH8000
Nitrate Nitrogen as N, mg/l	0.03	10.0			--- U			09/30/11	MPH	EPA353.2
Total Organic Carbon, mg/l	0.30	1.0			7.29			09/28/11	SEJ	SM5310C
Total Alkalinity, mg/l	1.0	1.0			109			09/28/11	TRB	SM2320B
Chloride, mg/l	5.0	5.0			10			09/29/11	HLB	SM4500-CLB
Cyanide, ug/l	5.0	10.0			--- U	--- U	--- U	10/07/11	SEJ	SM4500 CN-
Sulfate, mg/l	5.0	250.0			9.6 J			09/30/11	TRB	SM426C
Antimony, ug/l	0.14	6.0	Missing	--- U	--- U	--- U	--- U	10/05/11	LFJ	EPA200.8
Arsenic, ug/l	0.10	10.0	Missing	2.7 J	3.4 J	0.42 J	0.28 J	10/05/11	LFJ	EPA200.8
Barium, ug/l	0.02	100.0	Missing	33.1 J	45.1 J	36.9 J	14.5 J	10/05/11	LFJ	EPA200.8
Beryllium, ug/l	0.02	1.0	Missing	--- U	--- U	0.14 J	0.07 J	10/05/11	LFJ	EPA200.8
Cadmium, ug/l	0.02	1.0	Missing	0.04 J	0.05 J	0.08 J	0.06 J	10/05/11	LFJ'	EPA200.8
Cobalt, ug/l	0.03	10.0	Missing	0.88 J	1.2 J	0.50 J	0.12 J	10/05/11	LFJ	EPA200.8
Copper, ug/l	0.02	10.0	Missing	2.7 J	0.57 J	0.51 J	0.36 J	10/05/11	LFJ	EPA200.8
Total Chromium, ug/l	0.04	10.0	Missing	1.8 J	0.28 J	--- U	0.28 J	10/05/11	LFJ	EPA200.8
Iron, ug/l	15.9	300.0			55025			11/03/11	ADD	SM3111B
Lead, ug/l	0.02	10.0	Missing	2.4 J	0.52 J	0.49 J	0.74 J	10/05/11	LFJ	EPA200.8
Mercury, ug/l	0.05	0.20		--- U	--- U	0.09 J	--- U	10/05/11	LFJ	EPA200.8
Nickel, ug/l	0.04	50.0	Missing	22.8 J	1.4 J	0.94 J	0.72 J	10/05/11	LFJ	EPA200.8
Selenium, ug/l	0.20	10.0	Missing	0.58 J	0.84 J	0.26 J	--- U	10/05/11	LFJ	EPA200.8
Silver, ug/l	0.02	10.0	Missing	--- U	--- U	--- U	--- U	10/05/11	LFJ	EPA200.8
Thallium, ug/l	0.02	5.5	Missing	0.04 J	0.03 J	--- U	--- U	10/05/11	LFJ	EPA200.8
Tin, ug/l	0.16	100.0		0.32 J	0.20 J	0.20 J	0.20 J	10/05/11	LFJ	EPA200.8
Vanadium, ug/l	0.14	25.0	Missing	4.3 J	2.7 J	0.58 J	1.4 J	10/05/11	LFJ	EPA200.8
Zinc, ug/l	0.24	10.0	Missing	6.6 J	6.5 J	3.7 J	2.9 J	10/05/11	LFJ	EPA200.8
Turbidity, NTU	1.0	1.0	Missing	34	9	18	47	09/28/11	RJH	SM2130B
Sulfide, ug/l	100	1000			787 J	--- U	--- U	10/05/11	LFJ	SM4500-S2D
Conductivity (at 25c), uMhos/cm	1.0	1.0	Missing	117	247	62	51	09/28/11	RJH	SM2510B
Dissolved Oxygen, mg/l	0.1	0.1	Missing	0.26	2.12	2.91	1.68	09/28/11	RJH	SM4500OG
Temperature, °C			Missing	21.96	19.46	19.10	18.58	09/28/11	RJH	SM2550B
Static Water Level, feet					16.60	18.03	8.78	09/28/11	RJH	
Well Depth, feet					26.16	28.34	26.87	09/28/11	RJH	
Carbon Dioxide, mg/l	1.0	1.0			181			09/28/11	TRB	SM4500CO2C
ORP, mv			Missing	218.4	5.8	263.5	262.6	09/28/11	RJH	SM2580B

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#: 6005

GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL ,NC 28580

DATE COLLECTED: 09/28/11
DATE REPORTED : 11/15/11

REVIEWED BY:

PARAMETERS	MDL	SWSL	Well #7	Well #8	Well #1R	Piezometer #2	Equipment Blank	Analysis Date	Analyst	Method Code
PH (field measurement), Units			4.57	4.49	4.25			09/28/11	RJH	SM4500HB
BOD, mg/l	2.0	2.0			--- U			09/28/11	TRB	SM5210B
COD, mg/l	20.0	20.0			--- U			10/04/11	TRB	HACH8000
Nitrate Nitrogen as N, mg/l	0.03	10.0			1.51 J			09/30/11	MPH	EPA353.2
Total Organic Carbon, mg/l	0.30	1.0			--- U			09/28/11	SEJ	SM5310C
Total Alkalinity, mg/l	1.0	1.0			--- U			09/28/11	TRB	SM2320B
Chloride, mg/l	5.0	5.0			172			09/29/11	HLB	SM4500-CLB
Cyanide, ug/l	5.0	10.0	--- U	--- U	--- U		--- U	10/07/11	SEJ	SM4500 CN-
Sulfate, mg/l	5.0	250.0			--- U			09/30/11	TRB	SM426C
Antimony, ug/l	0.14	6.0	--- U	--- U	--- U			10/05/11	LFJ	EPA200.8
Antimony, ug/l	0.14	6.0					--- U	10/17/11	LFJ	EPA200.8
Arsenic, ug/l	0.10	10.0	0.32 J	--- U	1.1 J			10/05/11	LFJ	EPA200.8
Arsenic, ug/l	0.10	10.0					--- U	10/17/11	LFJ	EPA200.8
Barium, ug/l	0.02	100.0	34.6 J	32.6 J	178			10/05/11	LFJ	EPA200.8
Barium, ug/l	0.02	100.0					0.09 J	10/17/11	LFJ	EPA200.8
Beryllium, ug/l	0.02	1.0	0.11 J	0.09 J	0.32 J			10/05/11	LFJ	EPA200.8
Beryllium, ug/l	0.02	1.0					--- U	10/17/11	LFJ	EPA200.8
Cadmium, ug/l	0.02	1.0	--- U	--- U	0.12 J			10/05/11	LFJ'	EPA200.8
Cadmium, ug/l	0.02	1.0					--- U	10/17/11	LFJ	EPA200.8
Cobalt, ug/l	0.03	10.0	0.52 J	0.31 J	0.79 J			10/05/11	LFJ	EPA200.8
Cobalt, ug/l	0.03	10.0					--- U	10/17/11	LFJ	EPA200.8
Copper, ug/l	0.02	10.0	0.44 J	0.56 J	1.9 J			10/05/11	LFJ	EPA200.8
Copper, ug/l	0.02	10.0					0.50 J	10/17/11	LFJ	EPA200.8
Total Chromium, ug/l	0.04	10.0	0.26 J	--- U	4.1 J			10/05/11	LFJ	EPA200.8
Total Chromium, ug/l	0.04	10.0					0.10 J	10/17/11	LFJ	EPA200.8
Iron, ug/l	15.9	300.0			7635			11/03/11	ADD	SM3111B
Lead, ug/l	0.02	10.0	0.34 J	0.62 J	4.6 J			10/05/11	LFJ	EPA200.8
Lead, ug/l	0.02	10.0					0.05 J	10/17/11	LFJ	EPA200.8
Mercury, ug/l	0.05	0.20	--- U	--- U	--- U			10/05/11	LFJ	EPA200.8
Mercury, ug/l	0.05	0.20					--- U	10/17/11	LFJ	EPA200.8
Nickel, ug/l	0.04	50.0	1.1 J	0.51 J	2.1 J			10/05/11	LFJ	EPA200.8
Nickel, ug/l	0.04	50.0					0.38 J	10/17/11	LFJ	EPA200.8
Selenium, ug/l	0.20	10.0	--- U	--- U	0.21 J			10/05/11	LFJ	EPA200.8
Selenium, ug/l	0.20	10.0					--- U	10/17/11	LFJ	EPA200.8
Silver, ug/l	0.02	10.0	--- U	--- U	--- U			10/05/11	LFJ	EPA200.8
Silver, ug/l	0.02	10.0					0.06 J	10/17/11	LFJ	EPA200.8
Thallium, ug/l	0.02	5.5	--- U	0.12 J	0.24 J			10/05/11	LFJ	EPA200.8
Thallium, ug/l	0.02	5.5					0.14 J	10/17/11	LFJ	EPA200.8
Tin, ug/l	0.16	100.0	--- U	0.24 J	0.39 J			10/05/11	LFJ	EPA200.8
Tin, ug/l	0.16	100.0					0.17 J	10/17/11	LFJ	EPA200.8
Vanadium, ug/l	0.14	25.0	0.97 J	0.66 J	6.5 J			10/05/11	LFJ	EPA200.8
Vanadium, ug/l	0.14	25.0					--- U	10/17/11	LFJ	EPA200.8
Zinc, ug/l	0.24	10.0	4.4 J	3.3 J	17			10/05/11	LFJ	EPA200.8
Zinc, ug/l	0.24	10.0					3.2 J	10/17/11	LFJ	EPA200.8
Turbidity, NTU	1.0	1.0	32	14	76			09/28/11	RJH	SM2130B
Sulfide, ug/l	100	1000	--- U	--- U	--- U		--- U	10/05/11	LFJ	SM4500-S2D
Conductivity (at 25c), uMhos/cm	1.0	1.0	46	32	577			09/28/11	RJH	SM2510B
Dissolved Oxygen, mg/l	0.1	0.1	5.11	6.78	0.34			09/28/11	RJH	SM4500OG
Temperature, °C			18.75	19.19	22.70			09/28/11	RJH	SM2550B
Static Water Level, feet			12.88	9.50	5.00	14.60		09/28/11	RJH	

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#: 6005

GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL ,NC 28580

DATE COLLECTED: 09/28/11
DATE REPORTED : 11/15/11

REVIEWED BY:

PARAMETERS	MDL	SWSL	Well #7	Well #8	Well #1R	Piezometer #2	Equipment Blank	Analysis Date	Analyst	Method Code
Well Depth, feet			21.38	20.24	19.51			09/28/11	RJH	
Carbon Dioxide, mg/l	1.0	1.0			96			09/28/11	TRB	SM4500CO2C
ORP, mv			275.1	312.5	364.6			09/28/11	RJH	SM2580B

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

Environment 1, Incorporated

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Wastewater ID: 10

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ID#: 6005

GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL ,NC 28580

DATE COLLECTED: 09/28/11
DATE REPORTED : 11/15/11

REVIEWED BY:

PARAMETERS	MDL	SWSL	Trip Blank	Field Blank		Analysis Date	Analyst	Method Code
Antimony, ug/l	0.14	6.0		---	U	10/17/11	LFJ	EPA200.8
Arsenic, ug/l	0.10	10.0		---	U	10/17/11	LFJ	EPA200.8
Barium, ug/l	0.02	100.0		---	U	10/17/11	LFJ	EPA200.8
Beryllium, ug/l	0.02	1.0		---	U	10/17/11	LFJ	EPA200.8
Cadmium, ug/l	0.02	1.0		---	U	10/17/11	LFJ	EPA200.8
Cobalt, ug/l	0.03	10.0		---	U	10/17/11	LFJ	EPA200.8
Copper, ug/l	0.02	10.0		0.22	J	10/17/11	LFJ	EPA200.8
Total Chromium, ug/l	0.04	10.0		---	U	10/17/11	LFJ	EPA200.8
Lead, ug/l	0.02	10.0		---	U	10/17/11	LFJ	EPA200.8
Mercury, ug/l	0.05	0.20		---	U	10/17/11	LFJ	EPA200.8
Nickel, ug/l	0.04	50.0		0.40	J	10/17/11	LFJ	EPA200.8
Selenium, ug/l	0.20	10.0		---	U	10/17/11	LFJ	EPA200.8
Silver, ug/l	0.02	10.0		---	U	10/17/11	LFJ	EPA200.8
Thallium, ug/l	0.02	5.5		0.04	J	10/17/11	LFJ	EPA200.8
Tin, ug/l	0.16	100.0		---	U	10/17/11	LFJ	EPA200.8
Vanadium, ug/l	0.14	25.0		---	U	10/17/11	LFJ	EPA200.8
Zinc, ug/l	0.24	10.0		1.4	J	10/17/11	LFJ	EPA200.8

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Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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CLIENT: GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL, NC 28580

REVIEWED BY:

CLIENT ID: 6005

ANALYST: CHS
DATE COLLECTED: 09/28/11
DATE EXTRACTED: 10/04/11
DATE ANALYZED: 10/21/11
DATE REPORTED: 11/15/11

PESTICIDES AND PCB'S
EPA METHOD 8081B

PARAMETERS, ug/l	MDL	SWSL	Well #4	Well #5	Well #6	Well #7	Well #8
1. Aldrin	0.029	0.05	--- U	--- U	--- U	--- U	--- U
2. Alpha-BHC	0.032	0.05	--- U	--- U	--- U	--- U	--- U
3. Beta-BHC	0.031	0.05	--- U	--- U	--- U	--- U	--- U
4. Delta-BHC	0.030	0.05	--- U	--- U	--- U	--- U	--- U
5. Gamma-BHC (Lindane)	0.032	0.05	--- U	--- U	--- U	--- U	--- U
6. Chlordane	0.320	0.50	--- U	--- U	--- U	--- U	--- U
7. 4,4-DDD	0.051	0.10	--- U	--- U	--- U	--- U	--- U
8. 4,4-DDE	0.049	0.10	--- U	--- U	--- U	--- U	--- U
9. 4,4-DDT	0.052	0.10	--- U	--- U	--- U	--- U	--- U
10. Dieldrin	0.042	0.075	--- U	--- U	--- U	--- U	--- U
11. Endosulfan I	0.056	0.10	--- U	--- U	--- U	--- U	--- U
12. Endosulfan II	0.046	0.10	--- U	--- U	--- U	--- U	--- U
13. Endosulfan Sulfate	0.072	0.10	--- U	--- U	--- U	--- U	--- U
14. Endrin	0.053	0.10	--- U	--- U	--- U	--- U	--- U
15. Endrin Aldehyde	0.068	0.10	--- U	--- U	--- U	--- U	--- U
16. Heptachlor	0.039	0.05	--- U	--- U	--- U	--- U	--- U
17. Heptachlor Epoxide	0.042	0.075	--- U	--- U	--- U	--- U	--- U
18. Methoxychlor	0.530	1.00	--- U	--- U	--- U	--- U	--- U
19. Pcb's (Aroclors)	0.500	2.00	--- U	--- U	--- U	--- U	--- U
20. Toxaphene	0.690	1.50	--- 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
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CLIENT: GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL, NC 28580

CLIENT ID: 6005

ANALYST: CHS
DATE COLLECTED: 09/28/11
DATE EXTRACTED: 10/04/11
DATE ANALYZED: 10/21/11
DATE REPORTED: 11/15/11

REVIEWED BY:

PESTICIDES AND PCB'S
EPA METHOD 8081B

PARAMETERS, ug/l	MDL	SWSL	Well #1R	Equipment Blank
1. Aldrin	0.029	0.05	--- U	--- U
2. Alpha-BHC	0.032	0.05	--- U	--- U
3. Beta-BHC	0.031	0.05	--- U	--- U
4. Delta-BHC	0.030	0.05	--- U	--- U
5. Gamma-BHC (Lindane)	0.032	0.05	--- U	--- U
6. Chlordane	0.320	0.50	--- U	--- U
7. 4,4-DDD	0.051	0.10	--- U	--- U
8. 4,4-DDE	0.049	0.10	--- U	--- U
9. 4,4-DDT	0.052	0.10	--- U	--- U
10. Dieldrin	0.042	0.075	--- U	--- U
11. Endosulfan I	0.056	0.10	--- U	--- U
12. Endosulfan II	0.046	0.10	--- U	--- U
13. Endosulfan Sulfate	0.072	0.10	--- U	--- U
14. Endrin	0.053	0.10	--- U	--- U
15. Endrin Aldehyde	0.068	0.10	--- U	--- U
16. Heptachlor	0.039	0.05	--- U	--- U
17. Heptachlor Epoxide	0.042	0.075	--- U	--- U
18. Methoxychlor	0.530	1.00	--- U	--- U
19. Pcb's (Aroclors)	0.500	2.00	--- U	--- U
20. Toxaphene	0.690	1.50	--- U	--- U

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

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Drinking Water ID: 37715
Wastewater ID: 10

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CLIENT: GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL, NC 28580

REVIEWED BY:

CLIENT ID: 6005

ANALYST: CHS
DATE COLLECTED: 09/28/11
DATE EXTRACTED: 10/05/11
DATE ANALYZED: 10/22/11
DATE REPORTED: 11/15/11

LANDFILL APPENDIX II
EPA METHOD 8151A

PARAMETERS, ug/l	MDL	SWSL	Well #4	Well #5	Well #6	Well #7	Well #8
1. 2,4-D	0.36	2.0	--- U	--- U	--- U	--- U	--- U
2. Dinoseb	0.54	1.0	--- U	--- U	--- U	--- U	--- U
3. 2,4,5-TP	0.42	2.0	--- U	--- U	--- U	--- U	--- U
4. 2,4,5-T	0.47	2.0	--- U	--- U	--- U	--- U	--- U

NOTE: Surrogate recovery for Wells 4 & 6 was outside control limits

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

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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CLIENT: GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL, NC 28580

REVIEWED BY:

CLIENT ID: 6005

ANALYST: CHS
DATE COLLECTED: 09/28/11
DATE EXTRACTED: 10/05/11
DATE ANALYZED: 10/22/11
DATE REPORTED: 11/15/11

LANDFILL APPENDIX II
EPA METHOD 8151A

PARAMETERS, ug/l	MDL	SWSL	Well #1R	Equipment Blank
1. 2,4-D	0.36	2.0	--- U	--- U
2. Dinoseb	0.54	1.0	--- U	--- U
3. 2,4,5-TP	0.42	2.0	--- U	--- U
4. 2,4,5-T	0.47	2.0	--- U	--- U

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

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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CLIENT: GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL, NC 28580

CLIENT ID: 6005

ANALYST: CHS
DATE COLLECTED: 09/28/11
DATE EXTRACTED: 10/03/11
DATE ANALYZED: 10/20/11
DATE REPORTED: 11/15/11

REVIEWED BY:

SEMI-VOLATILE ORGANICS
EPA METHOD 8270C

PARAMETERS, ug/l	MDL	SWSL	Well #4	Well #5	Well #6	Well #7	Well #8
1. Acenaphthene	2.66	10.0	--- U	--- U	--- U	--- U	--- U
2. Acenaphthylene	2.60	10.0	--- U	--- U	--- U	--- U	--- U
3. Anthracene	2.97	10.0	--- U	--- U	--- U	--- U	--- U
4. Benzo[a]antrhacene	4.16	10.0	--- U	--- U	--- U	--- U	--- U
5. Benzo[b]fluoranthene	3.32	10.0	--- U	--- U	--- U	--- U	--- U
6. Benzo[k]fluoranthene	4.23	10.0	--- U	--- U	--- U	--- U	--- U
7. Benzo[g,h,i]perylene	2.61	10.0	--- U	--- U	--- U	--- U	--- U
8. Benzo[a]pyrene	3.27	10.0	--- U	--- U	--- U	--- U	--- U
9. 4-Bromophenyl Phenyl Ether	2.63	10.0	--- U	--- U	--- U	--- U	--- U
10. Butyl Benzyl Phthalate	5.78	10.0	--- U	--- U	--- U	--- U	--- U
11. Bis-(2-Chloroethoxy) Methane	3.14	10.0	--- U	--- U	--- U	--- U	--- U
12. Bis-(2-Chloroethyl) Ether	2.58	10.0	--- U	--- U	--- U	--- U	--- U
13. Bis-(2-Chloroisopropyl) Ether	2.58	10.0	--- U	--- U	--- U	--- U	--- U
14. 2-Chloronaphthalene	2.17	10.0	--- U	--- U	--- U	--- U	--- U
15. 4-Chlorophenyl Phenyl Ether	2.42	10.0	--- U	--- U	--- U	--- U	--- U
16. Chrysene	4.04	10.0	--- U	--- U	--- U	--- U	--- U
17. Dibenzo[a,h]anthracene	2.78	10.0	--- U	--- U	--- U	--- U	--- U
18. Di-N-Butyl Phthalate	3.09	10.0	--- U	--- U	--- U	--- U	--- U
19. Dimethyl Phthalate	3.78	10.0	--- U	--- U	--- U	--- U	--- U
20. Diethyl Phthalate	3.92	6000	--- U	--- U	--- U	--- U	--- U
21. 2,4-Dinitrotoluene	3.95	10.0	--- U	--- U	--- U	--- U	--- U
22. 2,6-Dinitrotoluene	3.88	10.0	--- U	--- U	--- U	--- U	--- U
23. Di-N-Octyl Phthalate	2.81	10.0	--- U	--- U	--- U	--- U	--- U
24. Bis-(2-Ethylhexyl) Phthalate	9.97	15.0	--- U	--- U	--- U	--- U	--- U
25. Fluoranthene	3.92	10.0	--- U	--- U	--- U	--- U	--- U
26. Fluorene	2.95	10.0	--- U	--- U	--- U	--- U	--- U
27. Hexachlorobenzene	2.61	10.0	--- U	--- U	--- U	--- U	--- U
28. Hexachlorocyclopentadiene	4.16	10.0	--- U	--- U	--- U	--- U	--- U
29. Indeno[1,2,3-Cd]pyrene	2.91	10.0	--- U	--- U	--- U	--- U	--- U
30. Isophorone	3.74	10.0	--- U	--- U	--- U	--- U	--- U
31. Nitrobenzene	2.85	10.0	--- U	--- U	--- U	--- U	--- U
32. N-Nitrosodimethylamine	4.25	10.0	--- U	--- U	--- U	--- U	--- U
33. N-Nitrosodiphenylamine	3.95	10.0	--- U	--- U	--- U	--- U	--- U
34. N-Nitrosodi-N-Propylamine	4.06	10.0	--- U	--- U	--- U	--- U	--- U
35. Phenanthrene	3.24	10.0	--- U	--- U	--- U	--- U	--- U
36. Pyrene	3.63	10.0	--- U	--- U	--- U	--- U	--- U
37. 4-Chloro-3-Methylphenol	3.79	20.0	--- U	--- U	--- U	--- U	--- U
38. 2-Chlorophenol	2.75	10.0	--- U	--- U	--- U	--- U	--- U
39. O-Cresol	3.68	10.0	--- U	--- U	--- U	--- U	--- U
40. P-Cresol	4.12	10.0	--- U	--- U	--- U	--- U	--- U
41. 2,4-Dichlorophenol	5.19	10.0	--- U	--- U	--- U	--- U	--- U
42. 2,6-Dichlorophenol	4.89	10.0	--- U	--- U	--- U	--- U	--- U
43. 2,4-Dimethylphenol	3.21	10.0	--- U	--- U	--- U	--- U	--- U
44. 4,6-Dinitro-2-Methylphenol	4.77	50.0	--- U	--- U	--- U	--- U	--- U
45. 2,4-Dinitrophenol	4.37	50.0	--- U	--- U	--- U	--- U	--- U
46. Ethyl Methanesulfonate	5.26	20.0	--- U	--- U	--- U	--- U	--- U
47. Methyl Methanesulfonate	4.92	10.0	--- U	--- U	--- U	--- U	--- U
48. 2-Nitrophenol	3.64	10.0	--- U	--- U	--- U	--- U	--- U

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Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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

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CLIENT: GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL, NC 28580

CLIENT ID: 6005

ANALYST: CHS
DATE COLLECTED: 09/28/11
DATE EXTRACTED: 10/03/11
DATE ANALYZED: 10/20/11
DATE REPORTED: 11/15/11

REVIEWED BY:

SEMI-VOLATILE ORGANICS
EPA METHOD 8270C

PARAMETERS, ug/l	MDL	SWSL	Well #4	Well #5	Well #6	Well #7	Well #8
49. 4-Nitrophenol	3.17	50.0	--- U	--- U	--- U	--- U	--- U
50. Pentachlorophenol	5.33	25.0	--- U	--- U	--- U	--- U	--- U
51. Phenol	1.86	10.0	--- U	--- U	--- U	--- U	--- U
52. 2,3,4,6-Tetrachlorophenol	3.12	10.0	--- U	--- U	--- U	--- U	--- U
53. 2,4,5-Trichlorophenol	4.17	10.0	--- U	--- U	--- U	--- U	--- U
54. 2,4,6-Trichlorophenol	3.84	10.0	--- U	--- U	--- U	--- U	--- U
55. Acetophenone	2.89	10.0	--- U	--- U	--- U	--- U	--- U
56. 2-Acetylaminofluorene	3.98	20.0	--- U	--- U	--- U	--- U	--- U
57. 4-Aminobiphenyl	4.12	20.0	--- U	--- U	--- U	--- U	--- U
58. Benzyl Alcohol	4.47	20.0	--- U	--- U	--- U	--- U	--- U
59. 4-Chloroaniline	3.36	20.0	--- U	--- U	--- U	--- U	--- U
60. Chlorobenzilate	5.12	10.0	--- U	--- U	--- U	--- U	--- U
61. Diallate	2.98	10.0	--- U	--- U	--- U	--- U	--- U
62. Dibenzofuran	4.28	10.0	--- U	--- U	--- U	--- U	--- U
63. 3,3-Dichlorobenzidine	4.22	20.0	--- U	--- U	--- U	--- U	--- U
64. Dimethoate	3.98	20.0	--- U	--- U	--- U	--- U	--- U
65. P-Dimethylaminoazobenzene	2.89	10.0	--- U	--- U	--- U	--- U	--- U
66. 7,12-Dimethylbenz[a]anthracene	5.26	10.0	--- U	--- U	--- U	--- U	--- U
67. 3,3-Dimethylbenzadine	3.21	10.0	--- U	--- U	--- U	--- U	--- U
68. 1,3-Dinitrobenzene	2.89	20.0	--- U	--- U	--- U	--- U	--- U
69. Diphenylamine	5.10	10.0	--- U	--- U	--- U	--- U	--- U
70. Disulfoton	4.28	10.0	--- U	--- U	--- U	--- U	--- U
71. Famphur	3.98	20.0	--- U	--- U	--- U	--- U	--- U
72. Hexachloropropene	4.31	10.0	--- U	--- U	--- U	--- U	--- U
73. Isosafrole	2.88	10.0	--- U	--- U	--- U	--- U	--- U
74. Kepone	2.78	20.0	--- U	--- U	--- U	--- U	--- U
75. Methapyrilene	3.54	100.0	--- U	--- U	--- U	--- U	--- U
76. 3-Methylchloroanthrene	4.21	10.0	--- U	--- U	--- U	--- U	--- U
77. 2-Methylnaphthalene	3.79	10.0	--- U	--- U	--- U	--- U	--- U
78. Methyl Parathion	4.32	10.0	--- U	--- U	--- U	--- U	--- U
79. m-Cresol	3.81	10.0	--- U	--- U	--- U	--- U	--- U
80. 1,4-Naphthoquinone	4.00	10.0	--- U	--- U	--- U	--- U	--- U
81. 1-Naphthylamine	5.61	10.0	--- U	--- U	--- U	--- U	--- U
82. 2-Naphthylamine	4.62	10.0	--- U	--- U	--- U	--- U	--- U
83. 2-Nitroaniline	3.61	50.0	--- U	--- U	--- U	--- U	--- U
84. 3-Nitroaniline	4.81	50.0	--- U	--- U	--- U	--- U	--- U
85. 4-Nitroaniline	4.22	20.0	--- U	--- U	--- U	--- U	--- U
86. 5-Nitro-O-Toluidine	4.01	10.0	--- U	--- U	--- U	--- U	--- U
87. N-Nitrosodi-n-butylamine	3.63	10.0	--- U	--- U	--- U	--- U	--- U
88. N-Nitrosodiethylamine	3.83	20.0	--- U	--- U	--- U	--- U	--- U
89. N-Nitrosomethylethylamine	3.83	10.0	--- U	--- U	--- U	--- U	--- U
90. N-Nitrosopiperidine	5.19	20.0	--- U	--- U	--- U	--- U	--- U
91. N-Nitrosopyrrolidine	2.89	10.0	--- U	--- U	--- U	--- U	--- U
92. Parathion	3.12	10.0	--- U	--- U	--- U	--- U	--- U
93. Pentachlorobenzene	3.92	10.0	--- U	--- U	--- U	--- U	--- U
94. Pentachloronitrobenzene	3.71	20.0	--- U	--- U	--- U	--- U	--- U
95. Phenacetin	4.41	20.0	--- U	--- U	--- U	--- U	--- U
96. 1,4 Benzenediamine	2.99	10.0	--- 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: GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL, NC 28580

CLIENT ID: 6005

ANALYST: CHS
DATE COLLECTED: 09/28/11
DATE EXTRACTED: 10/03/11
DATE ANALYZED: 10/20/11
DATE REPORTED: 11/15/11

REVIEWED BY:

SEMI-VOLATILE ORGANICS
EPA METHOD 8270C

PARAMETERS, ug/l	MDL	SWSL	Well #4	Well #5	Well #6	Well #7	Well #8
97. Phorate	3.86	10.0	--- U	--- U	--- U	--- U	--- U
98. Pronamide	3.69	10.0	--- U	--- U	--- U	--- U	--- U
99. Safrole	4.12	10.0	--- U	--- U	--- U	--- U	--- U
100. 1,2,4,5-Tetrachlorobenzene	5.01	10.0	--- U	--- U	--- U	--- U	--- U
101. Thionazin	4.62	20.0	--- U	--- U	--- U	--- U	--- U
102. O-Toluidine	4.11	10.0	--- U	--- U	--- U	--- U	--- U
103. 1,3,5-Trinitrobenzene	3.98	10.0	--- U	--- U	--- U	--- U	--- U
104. 0,0,0-Triethyl Phosphorothioate	3.61	10.0	--- U	--- U	--- U	--- U	--- U
105. Hexachloroethane	1.49	10.0	--- U	--- U	--- U	--- U	--- U
106. Isodrin	3.11	20.0	--- 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
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CLIENT: GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL, NC 28580

CLIENT ID: 6005

ANALYST: CHS
DATE COLLECTED: 09/28/11
DATE EXTRACTED: 10/03/11
DATE ANALYZED: 10/20/11
DATE REPORTED: 11/15/11

REVIEWED BY:

SEMI-VOLATILE ORGANICS
EPA METHOD 8270C

PARAMETERS, ug/l	MDL	SWSL	Well #1R	Equipment Blank
1. Acenaphthene	2.66	10.0	--- U	--- U
2. Acenaphthylene	2.60	10.0	--- U	--- U
3. Anthracene	2.97	10.0	--- U	--- U
4. Benzo[a]antrhacene	4.16	10.0	--- U	--- U
5. Benzo[b]fluoranthene	3.32	10.0	--- U	--- U
6. Benzo[k]fluoranthene	4.23	10.0	--- U	--- U
7. Benzo[g,h,i]perylene	2.61	10.0	--- U	--- U
8. Benzo[a]pyrene	3.27	10.0	--- U	--- U
9. 4-Bromophenyl Phenyl Ether	2.63	10.0	--- U	--- U
10. Butyl Benzyl Phthalate	5.78	10.0	--- U	--- U
11. Bis-(2-Chloroethoxy) Methane	3.14	10.0	--- U	--- U
12. Bis-(2-Chloroethyl) Ether	2.58	10.0	--- U	--- U
13. Bis-(2-Chloroisopropyl) Ether	2.58	10.0	--- U	--- U
14. 2-Chloronaphthalene	2.17	10.0	--- U	--- U
15. 4-Chlorophenyl Phenyl Ether	2.42	10.0	--- U	--- U
16. Chrysene	4.04	10.0	--- U	--- U
17. Dibenzo[a,h]anthracene	2.78	10.0	--- U	--- U
18. Di-N-Butyl Phthalate	3.09	10.0	--- U	--- U
19. Dimethyl Phthalate	3.78	10.0	--- U	--- U
20. Diethyl Phthalate	3.92	6000	--- U	--- U
21. 2,4-Dinitrotoluene	3.95	10.0	--- U	--- U
22. 2,6-Dinitrotoluene	3.88	10.0	--- U	--- U
23. Di-N-Octyl Phthalate	2.81	10.0	--- U	--- U
24. Bis-(2-Ethylhexyl) Phthalate	9.97	15.0	--- U	--- U
25. Fluoranthene	3.92	10.0	--- U	--- U
26. Fluorene	2.95	10.0	--- U	--- U
27. Hexachlorobenzene	2.61	10.0	--- U	--- U
28. Hexachlorocyclopentadiene	4.16	10.0	--- U	--- U
29. Indeno[1,2,3-Cd]pyrene	2.91	10.0	--- U	--- U
30. Isophorone	3.74	10.0	--- U	--- U
31. Nitrobenzene	2.85	10.0	--- U	--- U
32. N-Nitrosodimethylamine	4.25	10.0	--- U	--- U
33. N-Nitrosodiphenylamine	3.95	10.0	--- U	--- U
34. N-Nitrosodi-N-Propylamine	4.06	10.0	--- U	--- U
35. Phenanthrene	3.24	10.0	--- U	--- U
36. Pyrene	3.63	10.0	--- U	--- U
37. 4-Chloro-3-Methylphenol	3.79	20.0	--- U	--- U
38. 2-Chlorophenol	2.75	10.0	--- U	--- U
39. O-Cresol	3.68	10.0	--- U	--- U
40. P-Cresol	4.12	10.0	--- U	--- U
41. 2,4-Dichlorophenol	5.19	10.0	--- U	--- U
42. 2,6-Dichlorophenol	4.89	10.0	--- U	--- U
43. 2,4-Dimethylphenol	3.21	10.0	--- U	--- U
44. 4,6-Dinitro-2-Methylphenol	4.77	50.0	--- U	--- U
45. 2,4-Dinitrophenol	4.37	50.0	--- U	--- U
46. Ethyl Methanesulfonate	5.26	20.0	--- U	--- U
47. Methyl Methanesulfonate	4.92	10.0	--- U	--- U
48. 2-Nitrophenol	3.64	10.0	--- 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: GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL, NC 28580

CLIENT ID: 6005

ANALYST: CHS
DATE COLLECTED: 09/28/11
DATE EXTRACTED: 10/03/11
DATE ANALYZED: 10/20/11
DATE REPORTED: 11/15/11

REVIEWED BY:

SEMI-VOLATILE ORGANICS
EPA METHOD 8270C

PARAMETERS, ug/l	MDL	SWSL	Well #1R	Equipment Blank
49. 4-Nitrophenol	3.17	50.0	--- U	--- U
50. Pentachlorophenol	5.33	25.0	--- U	--- U
51. Phenol	1.86	10.0	--- U	--- U
52. 2,3,4,6-Tetrachlorophenol	3.12	10.0	--- U	--- U
53. 2,4,5-Trichlorophenol	4.17	10.0	--- U	--- U
54. 2,4,6-Trichlorophenol	3.84	10.0	--- U	--- U
55. Acetophenone	2.89	10.0	--- U	--- U
56. 2-Acetylaminofluorene	3.98	20.0	--- U	--- U
57. 4-Aminobiphenyl	4.12	20.0	--- U	--- U
58. Benzyl Alcohol	4.47	20.0	--- U	--- U
59. 4-Chloroaniline	3.36	20.0	--- U	--- U
60. Chlorobenzilate	5.12	10.0	--- U	--- U
61. Diallate	2.98	10.0	--- U	--- U
62. Dibenzofuran	4.28	10.0	--- U	--- U
63. 3,3-Dichlorobenzidine	4.22	20.0	--- U	--- U
64. Dimethoate	3.98	20.0	--- U	--- U
65. P-Dimethylaminoazobenzene	2.89	10.0	--- U	--- U
66. 7,12-Dimethylbenz[a]anthracene	5.26	10.0	--- U	--- U
67. 3,3-Dimethylbenzadine	3.21	10.0	--- U	--- U
68. 1,3-Dinitrobenzene	2.89	20.0	--- U	--- U
69. Diphenylamine	5.10	10.0	--- U	--- U
70. Disulfoton	4.28	10.0	--- U	--- U
71. Famphur	3.98	20.0	--- U	--- U
72. Hexachloropropene	4.31	10.0	--- U	--- U
73. Isosafrole	2.88	10.0	--- U	--- U
74. Kepone	2.78	20.0	--- U	--- U
75. Methapyrilene	3.54	100.0	--- U	--- U
76. 3-Methylchloroanthrene	4.21	10.0	--- U	--- U
77. 2-Methylnaphthalene	3.79	10.0	--- U	--- U
78. Methyl Parathion	4.32	10.0	--- U	--- U
79. m-Cresol	3.81	10.0	--- U	--- U
80. 1,4-Naphthoquinone	4.00	10.0	--- U	--- U
81. 1-Naphthylamine	5.61	10.0	--- U	--- U
82. 2-Naphthylamine	4.62	10.0	--- U	--- U
83. 2-Nitroaniline	3.61	50.0	--- U	--- U
84. 3-Nitroaniline	4.81	50.0	--- U	--- U
85. 4-Nitroaniline	4.22	20.0	--- U	--- U
86. 5-Nitro-O-Toluidine	4.01	10.0	--- U	--- U
87. N-Nitrosodi-n-butylamine	3.63	10.0	--- U	--- U
88. N-Nitrosodiethylamine	3.83	20.0	--- U	--- U
89. N-Nitrosomethylethylamine	3.83	10.0	--- U	--- U
90. N-Nitrosopiperidine	5.19	20.0	--- U	--- U
91. N-Nitrosopyrrolidine	2.89	10.0	--- U	--- U
92. Parathion	3.12	10.0	--- U	--- U
93. Pentachlorobenzene	3.92	10.0	--- U	--- U
94. Pentachloronitrobenzene	3.71	20.0	--- U	--- U
95. Phenacetin	4.41	20.0	--- U	--- U
96. 1,4 Benzenediamine	2.99	10.0	--- 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: GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL, NC 28580

CLIENT ID: 6005

ANALYST: CHS
DATE COLLECTED: 09/28/11
DATE EXTRACTED: 10/03/11
DATE ANALYZED: 10/20/11
DATE REPORTED: 11/15/11

REVIEWED BY:

SEMI-VOLATILE ORGANICS
EPA METHOD 8270C

PARAMETERS, ug/l	MDL	SWSL	Well #1R	Equipment Blank
97. Phorate	3.86	10.0	--- U	--- U
98. Pronamide	3.69	10.0	--- U	--- U
99. Safrole	4.12	10.0	--- U	--- U
100. 1,2,4,5-Tetrachlorobenzene	5.01	10.0	--- U	--- U
101. Thionazin	4.62	20.0	--- U	--- U
102. O-Toluidine	4.11	10.0	--- U	--- U
103. 1,3,5-Trinitrobenzene	3.98	10.0	--- U	--- U
104. 0,0,0-Triethyl Phosphorothioate	3.61	10.0	--- U	--- U
105. Hexachloroethane	1.49	10.0	--- U	--- U
106. Isodrin	3.11	20.0	--- 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: GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL, NC 28580

CLIENT ID: 6005

ANALYST: MAO
DATE COLLECTED: 09/28/11
DATE ANALYZED: 10/10/11
DATE REPORTED: 11/15/11

REVIEWED BY:

LANDFILL APPENDIX II
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Downstream	Well #4	Well #5	Well #6	Well #7
1. Chloromethane	0.77	1.0	--- U	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.63	1.0	--- U	5.30	--- U	--- U	--- U
3. Bromomethane	0.67	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.48	10.0	--- U	6.50 J	0.70 J	--- 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	0.80 J	--- 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	1.50 J	0.30 J	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	--- U	7.00	3.00 J	--- U	--- U
15. 2-Butanone	2.21	100.0	--- U	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.27	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.25	5.0	--- U	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.24	1.0	--- U	3.00	0.50 J	--- U	--- U
21. 1,2-Dichloroethane	0.21	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	0.30 J	0.40 J	--- 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	1.20 J	--- 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	3.80	--- 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
48. Acrolein	40.57	53.0	--- U	--- U	--- U	--- U	--- U

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Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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

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

CLIENT: GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL, NC 28580

CLIENT ID: 6005

ANALYST: MAO
DATE COLLECTED: 09/28/11
DATE ANALYZED: 10/10/11
DATE REPORTED: 11/15/11

REVIEWED BY:

LANDFILL APPENDIX II
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Downstream	Well #4	Well #5	Well #6	Well #7
49. Allyl Chloride	0.20	10.0	--- U	--- U	--- U	--- U	--- U
50. Chloroprene	0.21	20.0	--- U	--- U	--- U	--- U	--- U
51. 1,3-Dichlorobenzene	0.41	5.0	--- U	--- U	--- U	--- U	--- U
52. Dichlorodifluoromethane	0.51	5.0	--- U	--- U	0.90 J	--- U	--- U
53. 1,3-Dichloropropane	0.28	1.0	--- U	--- U	--- U	--- U	--- U
54. 2,2-Dichloropropane	0.17	15.0	--- U	--- U	--- U	--- U	--- U
55. 1,1-Dichloropropene	0.22	5.0	--- U	--- U	--- U	--- U	--- U
56. Ethyl Methacrylate	0.16	10.0	--- U	--- U	--- U	--- U	--- U
57. Hexachlorobutadiene	0.57	10.0	--- U	--- U	--- U	--- U	--- U
58. Isobutyl Alcohol	12.80	100.0	--- U	--- U	--- U	--- U	--- U
59. Methacrylonitrile	1.93	100.0	--- U	--- U	--- U	--- U	--- U
60. Methyl Methacrylate	0.25	30.0	--- U	--- U	--- U	--- U	--- U
61. Naphthalene	0.47	10.0	--- U	--- U	--- U	--- U	--- U
62. Propionitrile	3.26	150.0	--- U	--- U	--- U	--- U	--- U
63. 1,2,4-Trichlorobenzene	0.50	10.0	--- U	--- U	--- U	--- U	--- U
64. Acetonitrile	36.29	55.0	--- U	--- U	--- U	--- U	--- U

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Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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

PHONE (252) 756-6208
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CLIENT: GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL, NC 28580

CLIENT ID: 6005

ANALYST: MAO
DATE COLLECTED: 09/28/11
DATE ANALYZED: 10/10/11
DATE REPORTED: 11/15/11

REVIEWED BY:

LANDFILL APPENDIX II
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Well #8	Well #1R	Equipment Blank	Trip Blank	Field Blank
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	12.90 J
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	0.21	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	0.30 J
28. trans-1,3-Dichloropropene	0.28	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.17	1.0	--- U	--- 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
48. Acrolein	40.57	53.0	--- 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: GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL, NC 28580

CLIENT ID: 6005

ANALYST: MAO
DATE COLLECTED: 09/28/11
DATE ANALYZED: 10/10/11
DATE REPORTED: 11/15/11

REVIEWED BY:

LANDFILL APPENDIX II
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Well #8	Well #1R	Equipment Blank	Trip Blank	Field Blank
49. Allyl Chloride	0.20	10.0	--- U	--- U	--- U	--- U	--- U
50. Chloroprene	0.21	20.0	--- U	--- U	--- U	--- U	--- U
51. 1,3-Dichlorobenzene	0.41	5.0	--- U	--- U	--- U	--- U	--- U
52. Dichlorodifluoromethane	0.51	5.0	--- U	--- U	--- U	--- U	--- U
53. 1,3-Dichloropropane	0.28	1.0	--- U	--- U	--- U	--- U	--- U
54. 2,2-Dichloropropane	0.17	15.0	--- U	--- U	--- U	--- U	--- U
55. 1,1-Dichloropropene	0.22	5.0	--- U	--- U	--- U	--- U	--- U
56. Ethyl Methacrylate	0.16	10.0	--- U	--- U	--- U	--- U	--- U
57. Hexachlorobutadiene	0.57	10.0	--- U	--- U	--- U	--- U	--- U
58. Isobutyl Alcohol	12.80	100.0	--- U	--- U	--- U	--- U	--- U
59. Methacrylonitrile	1.93	100.0	--- U	--- U	--- U	--- U	--- U
60. Methyl Methacrylate	0.25	30.0	--- U	--- U	--- U	--- U	--- U
61. Naphthalene	0.47	10.0	--- U	--- U	--- U	--- U	--- U
62. Propionitrile	3.26	150.0	--- U	--- U	--- U	--- U	--- U
63. 1,2,4-Trichlorobenzene	0.50	10.0	--- U	--- U	--- U	--- U	--- U
64. Acetonitrile	36.29	55.0	--- U	--- U	--- U	--- U	--- U

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

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

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

CHAIN OF CUSTODY RECORD

CLIENT: 6005 **Week:** 39

GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL NC 28580

( ) 747-5720

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

CHLORINE NEUTRALIZED AT COLLECTION																				
pH CHECK (LAB)			<2		<2			>12			12		9							
CONTAINER TYPE, P/G	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P				
CHEMICAL PRESERVATION	A	A	C	A	C	A	A	D	A	A	A	D	A	A	A					
SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field pH	BOD	COD	Nitrate	TOC	Alkalinity	Chloride	Cyanide	Sulfate	Metals	Turbidity	Sulfide	Conductivity	DO	Temperature	Field Parameter
Upstream					4	G									G	G		G	G	G	
Downstream	09 28 11	1235		21.96	4	G									G	G		G	G	G	
Well #4	09 28 11	1030		19.46	20	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Well #5	09 28 11	1105		19.10	11	G							G		G	G	G	G	G	G	G
Well #6	09 28 11	1135		18.58	11	G							G		G	G	G	G	G	G	G
Well #7	09 28 11	0920		18.75	11	G							G		G	G	G	G	G	G	G
Well #8	09 28 11	0950		19.19	11	G							G		G	G	G	G	G	G	G
Well #1R	09 28 11	1215		22.70	19	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Piezometer #2	09 28 11				1															G
Equipment Blank	09 28 11				10								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
- [X] SOLID WASTE SECTION

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

SAMPLES COLLECTED BY: (Please Print) N Lane / Fox

SAMPLES RECEIVED IN LAB AT 02 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
N Lane	09 28 11	B	9/28 215
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS: Upstream 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.

№ 231937

FORM #5

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: 6005 **Week:** 39

GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL NC 28580

( ) 747-5720

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

CHLORINE NEUTRALIZED AT COLLECTION																						
pH CHECK (LAB)			<2	<2			>12	<2	>9													
CONTAINER TYPE, P/G	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P							
CHEMICAL PRESERVATION	A	A	C	A	C	A	A	D	A	A	A	F D	A	A	A							
PARAMETERS	Field pH	BOD	COD	Nitrate	TOC	Alkalinity	Chloride	Cyanide	Sulfate	Metals	Turbidity	Sulfide	Conductivity	DO	Temperature	Field Parameter	TOTAL CHLORINE, mg/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	COLLECTION DATE	COLLECTION TIME	SAMPLE LOCATION
Field Blank										G									3	09/28/11	0900	

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

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

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

SAMPLES COLLECTED BY: (Please Print)
H Page / f ot

SAMPLES RECEIVED IN LAB AT 02 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob H Page	09/28/11	B	9/28 2:15
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.

№ 231933

FORM #5

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: 6005 **Week:** 39

GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL NC 28580

( ) 747-5720

DISINFECTION: ☐ CHLORINE ☐ UV ☐ NONE ☐ _____

CHLORINE NEUTRALIZED AT COLLECTION																				
pH CHECK (LAB)																				
CONTAINER TYPE, P/G																				
CHEMICAL PRESERVATION																				
PARAMETERS	8260 Dup. 1	EPA 8270C	8270C Dup. 1	EPA 8081B	8081B Duplicate	8260B App. II	8260 App. II 1	8260 App. II 2	8151A Landfill	CO2	ORP									
SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS															
~~Upstream~~					4															
Downstream	09 28 11	1235		21.9	4	C					C					C				
Well #4	09 28 11	1030		19.6	20		C	C	C	C	C	C	C	C	C	C				
Well #5	09 28 11	1105		19.0	11		C	C	C	C	C	C		C		C				
Well #6	09 28 11	1135		18.58	11		C	C	C	C	C	C		C		C				
Well #7	09 28 11	0920		18.75	11		C	C	C	C	C	C		C		C				
Well #8	09 28 11	0950		19.9	11		C	C	C	C	C	C		C		C				
Well #1R	09 28 11	1215		22.70	19		C	C	C	C	C	C		C	C	C				
Piezometer #2	09 28 11				1															
Equipment Blank	09 28 11				10		C	C	C	C	C	C		C						
Trip Blank					2															

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

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

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

SAMPLES COLLECTED BY: (Please Print) H Lagoe / F Ot

SAMPLES RECEIVED IN LAB AT 03 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob H Lagoe	09 28 11	[signature]	9/28 215
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS: Upstream 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

№ 231932

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: 6005 **Week:** 39

GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL NC 28580

( ) 747-5720

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

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	8260 Dup. 1	EPA 8270C	8270C Dup. 1	EPA 8081B	8081B Duplicate	8260B App. II	8260 App. II 1	8260 App. II 2	8151A Landfill	CO2	ORP					
																					CHLORINE NEUTRALIZED AT COLLECTION
											12	12									pH CHECK (LAB)
						G	G	G	G	G	G	G	G	G	P	P					CONTAINER TYPE, P/G
						E	A	A	A	A	E	E	E	A	A	A					CHEMICAL PRESERVATION
Field Blank	09 28 11	0900			3						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)
N Lage / Fox

SAMPLES RECEIVED IN LAB AT 02 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob N Lage	09 28 11		9/28 215
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

№ 231931

Microseeps, Inc
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

October 14, 2011

Steve Jones
Environment 1, Inc.
PO Box 7085
114 Oakmont Drive
Greenville, NC 27835

RE: **GREENE CO. (ID# 6005)**
Microseeps Workorder: 2711

Dear Steve Jones:

Enclosed are the analytical results for sample(s) received by the laboratory on Thursday, September 29, 2011. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Heather Hauser (HH) 10/18/11

Heather Hauser 10/14/2011
hhauser@microseeps.com

Enclosures

Total Number of Pages 9

CERTIFICATE OF ANALYSIS

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nelac

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Microseeps, Inc
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

SAMPLE SUMMARY

Workorder: 2711 GREENE CO. (ID# 6005)

Lab ID	Sample ID	Matrix	Date Collected	Date Received
27110001	WL1R	Bubble Strip	9/28/2011 12:15	9/29/2011 15:59
27110002	WL1R	Water	9/28/2011 12:15	9/29/2011 15:59
27110003	WEL4	Bubble Strip	9/28/2011 22:30	9/29/2011 15:59
27110004	WEL4	Water	9/28/2011 22:30	9/29/2011 15:59

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Microseeps, Inc
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

ANALYTICAL RESULTS

Workorder: 2711 GREENE CO. (ID# 6005)

Lab ID: 27110001 Date Received: 9/29/2011 15:59 Matrix: Bubble Strip
Sample ID: WL1R Date Collected: 9/28/2011 12:15

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual	RegLmt
RISK											
Analysis Desc: AM20GAX			Analytical Method: AM20GAX								
Methane	40	ug/l	0.015	0.0030	1			10/6/2011 14:05	GT		
Ethane	<0.010	ug/l	0.010	0.0010	1			10/6/2011 14:05	GT		
Ethene	0.014	ug/l	0.010	0.0020	1			10/6/2011 14:05	GT		
Hydrogen	1.1	nM	0.60	0.25	1			10/6/2011 14:05	GT		

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220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

ANALYTICAL RESULTS

Workorder: 2711 GREENE CO. (ID# 6005)

Lab ID: 27110002 Date Received: 9/29/2011 15:59 Matrix: Water
Sample ID: WL1R Date Collected: 9/28/2011 12:15

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual	RegLmt
EDonors											
Analysis Desc: AM23G			Analytical Method: AM23G								
Lactic Acid	0.24	mg/l	0.10	0.010	1			10/4/2011 18:25	KB		
Acetic Acid	<0.070	mg/l	0.070	0.0060	1			10/4/2011 18:25	KB		
Propionic Acid	<0.050	mg/l	0.050	0.0070	1			10/4/2011 18:25	KB		
Butyric Acid	<0.050	mg/l	0.050	0.0040	1			10/4/2011 18:25	KB		
Pyruvic Acid	<0.15	mg/l	0.15	0.033	1			10/4/2011 18:25	KB		
I-Pentanoic Acid	<0.15	mg/l	0.15	0.044	1			10/4/2011 18:25	KB		
Pentanoic Acid	<0.070	mg/l	0.070	0.012	1			10/4/2011 18:25	KB		
I-Hexanoic Acid	<0.050	mg/l	0.050	0.0060	1			10/4/2011 18:25	KB		
Hexanoic Acid	<0.050	mg/l	0.050	0.0060	1			10/4/2011 18:25	KB		

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Microseeps, Inc
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

ANALYTICAL RESULTS

Workorder: 2711 GREENE CO. (ID# 6005)

Lab ID: 27110003 Date Received: 9/29/2011 15:59 Matrix: Bubble Strip
Sample ID: WEL4 Date Collected: 9/28/2011 22:30

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual	RegLmt
RISK											
Analysis Desc: AM20GAX			Analytical Method: AM20GAX								
Methane	6000	ug/l	0.015	0.0030	1			10/6/2011 14:17	GT		
Ethane	<0.010	ug/l	0.010	0.0010	1			10/6/2011 14:17	GT		
Ethene	0.19	ug/l	0.010	0.0020	1			10/6/2011 14:17	GT		
Hydrogen	4.1	nM	0.60	0.25	1			10/6/2011 14:17	GT		

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Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

ANALYTICAL RESULTS

Workorder: 2711 GREENE CO. (ID# 6005)

Lab ID: 27110004 Date Received: 9/29/2011 15:59 Matrix: Water
Sample ID: WEL4 Date Collected: 9/28/2011 22:30

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual	RegLmt
EDonors											
Analysis Desc: AM23G			Analytical Method: AM23G								
Lactic Acid	0.15	mg/l	0.10	0.010	1			10/4/2011 19:07	KB		
Acetic Acid	0.16	mg/l	0.070	0.0060	1			10/4/2011 19:07	KB		
Propionic Acid	0.080	mg/l	0.050	0.0070	1			10/4/2011 19:07	KB		
Butyric Acid	<0.050	mg/l	0.050	0.0040	1			10/4/2011 19:07	KB		
Pyruvic Acid	<0.15	mg/l	0.15	0.033	1			10/4/2011 19:07	KB		
i-Pentanoic Acid	<0.15	mg/l	0.15	0.044	1			10/4/2011 19:07	KB		
Pentanoic Acid	<0.070	mg/l	0.070	0.012	1			10/4/2011 19:07	KB		
i-Hexanoic Acid	<0.050	mg/l	0.050	0.0060	1			10/4/2011 19:07	KB		
Hexanoic Acid	0.21	mg/l	0.050	0.0060	1			10/4/2011 19:07	KB		

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Microseeps, Inc
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

ANALYTICAL RESULTS QUALIFIERS

Workorder: 2711 GREENE CO. (ID# 6005)

PARAMETER QUALIFIERS

U Indicates the compound was analyzed for, but not detected.

J Estimated concentration greater than the set method detection limit (MDL) and less than the set reporting limit (RDL).

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Microseeps Lab. Proj. # 2711

CHAIN - OF - CUSTODY RECORD

Microseeps COC cont. # 2

Phone: (412) 826-5245 | Microseeps, Inc. - 220 William Pitt Way - Pittsburgh, PA 15238 | Fax No. : (412) 826-3433

Company : ENVIRONMENT 1

Co. Address : 114 OAKMONT DRIVE, GREENVILLE, NC 27858

Phone # : 252-756-6288 Fax # : 252-756-0633

Proj. Manager : STEVE JONES

Proj. Name/Number : GREENE CO. (ID# 6005)

Sampler's signature : Bob Hogge

Cooler Temp. 6°C

Results to : SAME

Invoice to : SAME

Sample ID	Sample Description	Sample Type Water	Vapor	Solid	Date	Time	# Bottles	HYDROCARBON	MOLAR/STANDARD/GASEOUS	LL UFA	Remarks
WL1R	WL1R	✓			9/28/11	12:15P	3	✓	✓	✓	
WEL4	WEL4	✓			9/28/11	10:30A	3	✓	✓	✓	
											FACILITY ID # 4002

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
[signature]	ENVIRONMENT 1	9/28/11	2:45P	Washlash	Microseeps	9/29/11	1123
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :

WHITE COPY : Accompany Samples YELLOW COPY : Laboratory File PINK COPY : Submitter

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#: 6005

GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL ,NC 28580

DATE COLLECTED: 03/19/12
DATE REPORTED : 04/09/12

REVIEWED BY:

PARAMETERS	MDL	SWSL	Upstream	Downstream	Well #4	Well #5	Well #6	Analysis Date	Analyst	Method Code
PH (field measurement), Units			Missing	6.20	5.55	4.38	4.85	03/19/12	RJH	SM4500HB
BOD, mg/l	2.0	2.0			16			03/19/12	TRB	SM5210B
COD, mg/l	20.0	20.0			36			03/22/12	TRB	HACH8000
Nitrate Nitrogen as N, mg/l	0.03	10.0			--- U			03/21/12	BJC	EPA353.2
Total Organic Carbon, mg/l	0.30	1.0			1.60			03/23/12	SEJ	SM5310C
Total Alkalinity, mg/l	1.0	1.0			183			03/19/12	TRB	SM2320B
Chloride, mg/l	5.0	5.0			7			03/22/12	HLB	SM4500-CLB
Sulfate, mg/l	5.0	250.0			8.1 J			03/23/12	TRB	SM426C
Antimony, ug/l	0.14	6.0	Missing	--- U	--- U	0.22 J	--- U	03/23/12	LFJ	EPA200.8
Arsenic, ug/l	0.10	10.0	Missing	2.1 J	2.4 J	4.7 J	1.2 J	03/23/12	LFJ	EPA200.8
Barium, ug/l	0.02	100.0	Missing	37.7 J	35.2 J	34.1 J	45.8 J	03/23/12	LFJ	EPA200.8
Beryllium, ug/l	0.02	1.0	Missing	--- U	--- U	0.16 J	0.30 J	03/23/12	LFJ	EPA200.8
Cadmium, ug/l	0.02	1.0	Missing	0.04 J	0.05 J	0.12 J	0.14 J	03/23/12	LFJ	EPA200.8
Cobalt, ug/l	0.03	10.0	Missing	0.87 J	1.6 J	0.53 J	0.72 J	03/23/12	LFJ	EPA200.8
Copper, ug/l	0.02	10.0	Missing	2.3 J	0.24 J	1.8 J	1.3 J	03/23/12	LFJ	EPA200.8
Total Chromium, ug/l	0.04	10.0	Missing	1.6 J	0.28 J	0.42 J	5.2 J	03/23/12	LFJ	EPA200.8
Iron, ug/l	15.9	300.0			72975			03/29/12	ADD	SM3111B
Lead, ug/l	0.02	10.0	Missing	2.1 J	0.22 J	2.3 J	5.2 J	03/23/12	LFJ	EPA200.8
Mercury, ug/l	0.05	0.20				0.18 J		03/23/12	LFJ	EPA200.8
Nickel, ug/l	0.04	50.0	Missing	0.95 J	2.7 J	0.73 J	1.2 J	03/23/12	LFJ	EPA200.8
Selenium, ug/l	0.20	10.0	Missing	--- U	0.41 J	--- U	--- U	03/23/12	LFJ	EPA200.8
Silver, ug/l	0.02	10.0	Missing	--- U	--- U	0.06 J	0.05 J	03/23/12	LFJ	EPA200.8
Thallium, ug/l	0.02	5.5	Missing	--- U	0.05 J	0.04 J	0.33 J	03/23/12	LFJ	EPA200.8
Tin, ug/l	0.16	100.0	Missing	0.18 J	--- U	--- U	0.23 J	03/23/12	LFJ	EPA200.8
Vanadium, ug/l	0.14	25.0	Missing	3.4 J	1.7 J	0.92 J	6.4 J	03/23/12	LFJ	EPA200.8
Zinc, ug/l	0.24	10.0	Missing	6.4 J	0.98 J	4.6 J	8.3 J	03/23/12	LFJ	EPA200.8
Turbidity, NTU	1.0	1.0	Missing	28.9	4.80	37.3	361	03/19/12	RJH	SM2130B
Sulfide, ug/l	100	1000			614 J			03/23/12	LFJ	SM4500-S2D
Conductivity (at 25c), uMhos/cm	1.0	1.0	Missing	211	371	67	43	03/19/12	RJH	SM2510B
Dissolved Oxygen, mg/l	0.1	0.1	Missing	2.02	1.41	0.93	1.56	03/19/12	RJH	SM4500OG
Temperature, °C			Missing	14.27	16.21	17.43	15.10	03/19/12	RJH	SM2550B
Static Water Level, feet					13.53	15.47	5.76	03/19/12	RJH	
Well Depth, feet					26.16	28.34	26.87	03/19/12	RJH	
Carbon Dioxide, mg/l	1.0	1.0			755			03/19/12	TRB	SM4500CO2C
ORP, mv			Missing	28.9	4.80	37.3	361	03/19/12	RJH	SM2580B

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#: 6005

GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL ,NC 28580

DATE COLLECTED: 03/19/12
DATE REPORTED : 04/09/12

REVIEWED BY:

PARAMETERS	MDL	SWSL	Well #7	Well #8	Well #1R	Piezometer #2	Equipment Blank	Analysis Date	Analyst	Method Code
PH (field measurement), Units			4.42	4.64	4.97			03/19/12	RJH	SM4500HB
BOD, mg/l	2.0	2.0			--- U			03/19/12	TRB	SM5210B
COD, mg/l	20.0	20.0			--- U			03/22/12	TRB	HACH8000
Nitrate Nitrogen as N, mg/l	0.03	10.0			1.41 J			03/21/12	BJC	EPA353.2
Total Organic Carbon, mg/l	0.30	1.0			8.98			03/23/12	SEJ	SM5310C
Total Alkalinity, mg/l	1.0	1.0			7			03/19/12	TRB	SM2320B
Chloride, mg/l	5.0	5.0			105			03/22/12	HLB	SM4500-CLB
Sulfate, mg/l	5.0	250.0			15.2 J			03/23/12	TRB	SM426C
Antimony, ug/l	0.14	6.0	--- U	--- U	--- U		--- U	03/23/12	LFJ	EPA200.8
Arsenic, ug/l	0.10	10.0	2.5 J	1.5 J	0.55 J		--- U	03/23/12	LFJ	EPA200.8
Barium, ug/l	0.02	100.0	51.4 J	49.2 J	120		8.0 J	03/23/12	LFJ	EPA200.8
Beryllium, ug/l	0.02	1.0	0.34 J	0.37 J	0.08 J		--- U	03/23/12	LFJ	EPA200.8
Cadmium, ug/l	0.02	1.0	0.06 J	0.27 J	0.10 J		--- U	03/23/12	LFJ	EPA200.8
Cobalt, ug/l	0.03	10.0	0.91 J	0.62 J	0.43 J		0.10 J	03/23/12	LFJ	EPA200.8
Copper, ug/l	0.02	10.0	2.3 J	2.0 J	3.0 J		0.83 J	03/23/12	LFJ	EPA200.8
Total Chromium, ug/l	0.04	10.0	8.5 J	6.9 J	0.38 J		--- U	03/23/12	LFJ	EPA200.8
Iron, ug/l	15.9	300.0			499			03/29/12	ADD	SM3111B
Lead, ug/l	0.02	10.0	3.7 J	12	0.69 J		--- U	03/23/12	LFJ	EPA200.8
Mercury, ug/l	0.05	0.20			0.07		0.05 J	03/23/12	LFJ	EPA200.8
Nickel, ug/l	0.04	50.0	1.6 J	1.2 J	1.3 J		0.29 J	03/23/12	LFJ	EPA200.8
Selenium, ug/l	0.20	10.0	0.32 J	--- U	0.76 J		--- U	03/23/12	LFJ	EPA200.8
Silver, ug/l	0.02	10.0	--- U	--- U	--- U		--- U	03/23/12	LFJ	EPA200.8
Thallium, ug/l	0.02	5.5	0.15 J	0.10 J	0.17 J		--- U	03/23/12	LFJ	EPA200.8
Tin, ug/l	0.16	100.0		0.57 J	--- U		--- U	03/23/12	LFJ	EPA200.8
Vanadium, ug/l	0.14	25.0	10.3 J	17.1 J	--- U		--- U	03/23/12	LFJ	EPA200.8
Zinc, ug/l	0.24	10.0	7.0 J	6.3 J	6.2 J		0.61 J	03/23/12	LFJ	EPA200.8
Turbidity, NTU	1.0	1.0	776	270	11.0			03/19/12	RJH	SM2130B
Sulfide, ug/l	100	1000			--- U			03/23/12	LFJ	SM4500-S2D
Conductivity (at 25c), uMhos/cm	1.0	1.0	47	32	444			03/19/12	RJH	SM2510B
Dissolved Oxygen, mg/l	0.1	0.1	4.74	6.76	0.30			03/19/12	RJH	SM45000G
Temperature, °C			16.76	16.49	14.66			03/19/12	RJH	SM2550B
Static Water Level, feet			10.32	6.41	5.02	10.45		03/19/12	RJH	
Well Depth, feet			21.38	20.24	19.51			03/19/12	RJH	
Carbon Dioxide, mg/l	1.0	1.0			95			03/19/12	TRB	SM4500CO2C
ORP, mv			776	270	11.0			03/19/12	RJH	SM2580B

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#: 6005

GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL ,NC 28580

DATE COLLECTED: 03/19/12
DATE REPORTED : 04/09/12

REVIEWED BY:

PARAMETERS	MDL	SWSL	Trip Blank	Field Blank	Analysis Date	Analyst	Method Code
Antimony, ug/l	0.14	6.0		--- U	03/23/12	LFJ	EPA200.8
Arsenic, ug/l	0.10	10.0		--- U	03/23/12	LFJ	EPA200.8
Barium, ug/l	0.02	100.0		0.08 J	03/23/12	LFJ	EPA200.8
Beryllium, ug/l	0.02	1.0		--- U	03/23/12	LFJ	EPA200.8
Cadmium, ug/l	0.02	1.0		--- U	03/23/12	LFJ	EPA200.8
Cobalt, ug/l	0.03	10.0		0.08 J	03/23/12	LFJ	EPA200.8
Copper, ug/l	0.02	10.0		0.32 J	03/23/12	LFJ	EPA200.8
Total Chromium, ug/l	0.04	10.0		--- U	03/23/12	LFJ	EPA200.8
Lead, ug/l	0.02	10.0		--- U	03/23/12	LFJ	EPA200.8
Mercury, ug/l	0.05	0.20		0.08 J	03/23/12	LFJ	EPA200.8
Nickel, ug/l	0.04	50.0		0.17 J	03/23/12	LFJ	EPA200.8
Selenium, ug/l	0.20	10.0		--- U	03/23/12	LFJ	EPA200.8
Silver, ug/l	0.02	10.0		--- U	03/23/12	LFJ	EPA200.8
Thallium, ug/l	0.02	5.5		--- U	03/23/12	LFJ	EPA200.8
Tin, ug/l	0.16	100.0		0.48 J	03/23/12	LFJ	EPA200.8
Vanadium, ug/l	0.14	25.0		--- U	03/23/12	LFJ	EPA200.8
Zinc, ug/l	0.24	10.0		--- U	03/23/12	LFJ	EPA200.8

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: GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL, NC 28580

CLIENT ID: 6005

ANALYST: MAO
DATE COLLECTED: 03/19/12
DATE REPORTED: 04/09/12

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Date Analyzed: 03/28/12 Downstream	03/28/12 Well #4	03/28/12 Well #5	03/29/12 Well #6	03/29/12 Well #7
1. Chloromethane	0.77	1.0	--- U	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.63	1.0	--- U	7.60	--- U	--- U	--- U
3. Bromomethane	0.67	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.48	10.0	--- U	9.70 J	0.60 J	--- 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	0.60 J	0.30 J	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	--- U	4.90 J	2.40 J	--- U	--- U
15. 2-Butanone	2.21	100.0	--- U	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.27	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.25	5.0	--- U	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.24	1.0	--- U	3.20	0.50 J	--- 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	0.50 J	--- U	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.17	1.0	--- 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	1.10 J	--- 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	0.30 J	--- 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	3.30	--- 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

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CLIENT: GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL, NC 28580

CLIENT ID: 6005

ANALYST: MAO
DATE COLLECTED: 03/19/12
DATE REPORTED: 04/09/12

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Date Analyzed: 03/29/12 Well #8	03/24/12 Well #1R	03/29/12 Equipment Blank	03/29/12 Trip Blank	03/29/12 Field Blank
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, Inc.
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858

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

CHAIN OF CUSTODY RECORD

CLIENT: 6005 **Week:** 13

GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL NC 28580

( ) 747-5720

DISINFECTION: ☐ CHLORINE ☐ UV ☐ NONE ☐ _____

CHLORINE NEUTRALIZED AT COLLECTION																				
pH CHECK (LAB)			<2		<2				12	9					12					
CONTAINER TYPE, P/G	P	P	P	P	P	P	P	P	P	P	P	P	P	P	G					
CHEMICAL PRESERVATION	A	A	C	A	C	A	A	A	A	A	F D	A	A	A	E					
SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field pH	BOD	COD	Nitrate	TOC	Alkalinity	Chloride	Sulfate	Metals	Turbidity	Sulfide	Conductivity	DO	Temperature	Field Parameter	EPA 8260B
Upstream					4	G								G	G		G	G	G		G
Downstream	03 19 12	1220		14.27	4	G								G	G		G	G	G		G
Well #4	03 19 12	1310		16.21	13	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Well #5	03 19 12	1020		17.43	4	G								G	G		G	G	G	G	G
Well #6	03 19 12	1030		15.70	4	G								G	G		G	G	G	G	G
Well #7	03 19 12	1000		16.76	4	G								G	G		G	G	G	G	G
Well #8	03 19 12	0935		16.49	4	G								G	G		G	G	G	G	G
Well #1R	03 19 12	1350		14.66	14	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Piezometer #2	03 19 12				1															G	
Equipment Blank	03 19 12	0930			3									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) [illegible]

SAMPLES RECEIVED IN LAB AT 0.2 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob Hagge 03	19 12	[illegible]	3/19 1243
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS: UPSTREAM - 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

№ 239354

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: 6005 **Week:** 13

GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL NC 28580

( ) 747-5720

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

CHLORINE NEUTRALIZED AT COLLECTION																						
pH CHECK (LAB)			<2		<2				22		>9					2						
CONTAINER TYPE, P/G			P	P	P	P	P	P	P	P	P	P	P	P	P		G					
CHEMICAL PRESERVATION			A	A	C	A	C	A	A	A	A	A	F D	A	A	A		E				
SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field pH	BOD	COD	Nitrate	TOC	Alkalinity	Chloride	Sulfate	Metals	Turbidity	Sulfide	Conductivity	DO	Temperature	Field Parameter	EPA 8260B	PARAMETERS
Field Blank 03	19 12	0930			3									G							G	

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)
Bob Hope

SAMPLES RECEIVED IN LAB AT 0 2 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob Hope 03	19 12	[illegible]	3/19 2 43
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

№ 239353

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Greenville, NC 27858

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

CHAIN OF CUSTODY RECORD

CLIENT: 6005 **Week:** 13

GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL NC 28580

( ) 747-5720

DISINFECTION: ☐ CHLORINE ☐ UV ☐ NONE ☐ _____

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	8260 Dup. 1	8260 Dup. 2	CO2	ORP
CHLORINE NEUTRALIZED AT COLLECTION									
pH CHECK (LAB)						12	12		
CONTAINER TYPE, P/G						G	G	P	P
CHEMICAL PRESERVATION						E	E	A	A
Upstream					4				
Downstream	03 19 12	1220		14.27	4	G			G
Well #4	03 19 12	1310		16.21	13	G		G	G
Well #5	03 19 12	1020		17.83	4	G			G
Well #6	03 19 12	1030		15.10	4	G			G
Well #7	03 19 12	1000		16.76	4	G			G
Well #8	03 19 12	0935		16.49	4	G			G
Well #1R	03 19 12	1350		14.66	14	G	G	G	G
Piezometer #2					1				
Equipment Blank	03 19 12	0938			3	G			
Trip Blank					2				

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 Page

SAMPLES RECEIVED IN LAB AT 02 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob H Page	03 19 12	B	3/19/2013
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS: UPSTREAM - 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

№ 239352

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: 6005 **Week: 13**

GREENE CO. LANDFILL
DAVID JONES
P.O. BOX 543
SNOW HILL NC 28580

( ) 747-5720

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

CHLORINE NEUTRALIZED AT COLLECTION

pH CHECK (LAB): 02

CONTAINER TYPE, P/G: G G P P

CHEMICAL PRESERVATION: E E A A

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

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	8260 Dup. 1	8260 Dup. 2	CO2	ORP
Field Blank 03	19 12	1930			3	C			

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 Rose

SAMPLES RECEIVED IN LAB AT 02 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob H Rose 03	19 12	B	3/19 1243
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

№ 239351

Microseeps, Inc
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

March 30, 2012

Steve Jones
Environment 1, Inc.
PO Box 7085
114 Oakmont Drive
Greenville, NC 27835

RE: **GREENE CO. (6005)**
Microseeps Workorder: 4559

Dear Steve Jones:

Enclosed are the analytical results for sample(s) received by the laboratory on Tuesday, March 20, 2012. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Julianne C. Sproull

Julianne Sproull 03/30/2012
jsproull@microseeps.com

Enclosures

As a valued client we would appreciate your comments on our service.
Please email info@microseeps.com.

Total Number of Pages 11

CERTIFICATE OF ANALYSIS

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Phone: (412) 826-5245
Fax: (412) 826-3433

LABORATORY ACCREDITATIONS & CERTIFICATIONS

Accreditor:	Pennsylvania Department of Environmental Protection, Bureau of Laboratories
Accreditation ID:	02-00538
Scope:	NELAP Non-Potable Water and Solid & Hazardous Waste
Accreditor:	NELAP: State of Florida, Department of Health, Bureau of Laboratories
Accreditation ID:	E87832
Scope:	Clean Water Act (CWA) Resource Conservation and Recovery Act (RCRA)
Accreditor:	South Carolina Department of Health and Environmental Control, Office of Environmental Laboratory Certification
Accreditation ID:	89009003
Scope:	Clean Water Act (CWA); Resource Conservation and Recovery Act (RCRA)
Accreditor:	NELAP: State of Louisiana, Department of Environmental Quality
Accreditation ID:	04104
Scope:	Solid and Chemical Materials; Non-Potable Water
Accreditor:	NELAP: New Jersey, Department of Environmental Protection
Accreditation ID:	PA026
Scope:	Non-Potable Water; Solid and Chemical Materials
Accreditor:	NELAP: New York, Department of Health Wadsworth Center
Accreditation ID:	11815
Scope:	Non-Potable Water; Solid and Hazardous Waste
Accreditor:	State of Connecticut, Department of Public Health, Division of Environmental Health
Accreditation ID:	PH-0263
Scope:	Clean Water Act (CWA) Resource Conservation and Recovery Act (RCRA)
Accreditor:	NELAP: Texas, Commission on Environmental Quality
Accreditation ID:	T104704453-09-TX
Scope:	Non-Potable Water
Accreditor:	State of New Hampshire
Accreditation ID:	299409
Scope:	Non-potable water
Accreditor:	State of Georgia
Accreditation ID:	Chapter 391-3-26
Scope:	As per the Georgia EPD Rules and Regulations for Commercial Laboratories, Microseeps is accredited by the Pennsylvania Department of Environmental Protection Bureau of Laboratories under the National Environmental Laboratory Approval Program (NELAC).

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Fax: (412) 826-3433

SAMPLE SUMMARY

Workorder: 4559 GREENE CO. (6005)

Lab ID	Sample ID	Matrix	Date Collected	Date Received
45590001	WL1R	Water	3/19/2012 13:50	3/20/2012 15:06
45590002	WL1R	Bubble Strip	3/19/2012 13:50	3/20/2012 15:06
45590003	WEL4	Water	3/19/2012 13:10	3/20/2012 15:06
45590004	WEL4	Bubble Strip	3/19/2012 13:10	3/20/2012 15:06

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Pittsburgh, PA 15238
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Fax: (412) 826-3433

PROJECT SUMMARY

Workorder: 4559 GREENE CO. (6005)

Batch Comments

Batch: EDON/1334 - Low Level Volatile Fatty Acids

The percent recovery for the laboratory control sample was below laboratory control limits. Analytes: Hexanoic acid. Results associated to the analytes in samples may be bias low.

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3004.1.0.0

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Pittsburgh, PA 15238
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Fax: (412) 826-3433

ANALYTICAL RESULTS

Workorder: 4559 GREENE CO. (6005)

Lab ID: 45590001 Date Received: 3/20/2012 16:06 Matrix: Water
Sample ID: WL1R Date Collected: 3/19/2012 13:50

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	<0.10	mg/l	0.10	0.010	1			3/28/2012 00:54	KB	
Acetic Acid	<0.070	mg/l	0.070	0.0060	1			3/28/2012 00:54	KB	
Propionic Acid	<0.050	mg/l	0.050	0.0070	1			3/28/2012 00:54	KB	
Butyric Acid	<0.050	mg/l	0.050	0.0040	1			3/28/2012 00:54	KB	
Pyruvic Acid	<0.15	mg/l	0.15	0.033	1			3/28/2012 00:54	KB	
i-Pentanoic Acid	<0.15	mg/l	0.15	0.044	1			3/28/2012 00:54	KB	
Pentanoic Acid	<0.070	mg/l	0.070	0.012	1			3/28/2012 00:54	KB	
i-Hexanoic Acid	<0.050	mg/l	0.050	0.0060	1			3/28/2012 00:54	KB	
Hexanoic Acid	<0.050	mg/l	0.050	0.0060	1			3/28/2012 00:54	KB	

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ANALYTICAL RESULTS

Workorder: 4559 GREENE CO. (6005)

Lab ID: 45590002 Date Received: 3/20/2012 15:06 Matrix: Bubble Strip
Sample ID: WL1R Date Collected: 3/19/2012 13:50

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	490	ug/l	0.015	0.0030	1			3/23/2012 09:41	GT	
Ethane	<0.010	ug/l	0.010	0.0010	1			3/23/2012 09:41	GT	
Ethene	0.014	ug/l	0.010	0.0020	1			3/23/2012 09:41	GT	
Hydrogen	0.69	nM	0.60	0.25	1			3/23/2012 09:41	GT	

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ANALYTICAL RESULTS

Workorder: 4559 GREENE CO. (6005)

Lab ID: 45590003 Date Received: 3/20/2012 15:06 Matrix: Water
Sample ID: WEL4 Date Collected: 3/19/2012 13:10

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	<0.10	mg/l	0.10	0.010	1			3/28/2012 01:36	KB	
Acetic Acid	<0.070	mg/l	0.070	0.0060	1			3/28/2012 01:36	KB	
Propionic Acid	<0.050	mg/l	0.050	0.0070	1			3/28/2012 01:36	KB	
Butyric Acid	<0.050	mg/l	0.050	0.0040	1			3/28/2012 01:36	KB	
Pyruvic Acid	<0.15	mg/l	0.15	0.033	1			3/28/2012 01:36	KB	
i-Pentanoic Acid	<0.15	mg/l	0.15	0.044	1			3/28/2012 01:36	KB	
Pentanoic Acid	<0.070	mg/l	0.070	0.012	1			3/28/2012 01:36	KB	
i-Hexanoic Acid	<0.050	mg/l	0.050	0.0060	1			3/28/2012 01:36	KB	
Hexanoic Acid	<0.050	mg/l	0.050	0.0060	1			3/28/2012 01:36	KB	

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ANALYTICAL RESULTS

Workorder: 4559 GREENE CO. (6005)

Lab ID: 45590004 Date Received: 3/20/2012 15:06 Matrix: Bubble Strip
Sample ID: WEL4 Date Collected: 3/19/2012 13:10

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	5400	ug/l	0.015	0.0030	1			3/23/2012 09:59	GT	
Ethane	0.015	ug/l	0.010	0.0010	1			3/23/2012 09:59	GT	
Ethene	0.15	ug/l	0.010	0.0020	1			3/23/2012 09:59	GT	
Hydrogen	1.0	nM	0.60	0.25	1			3/23/2012 09:59	GT	

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ANALYTICAL RESULTS QUALIFIERS

Workorder: 4559 GREENE CO. (6005)

PARAMETER QUALIFIERS

U Indicates the compound was analyzed for, but not detected.

J Estimated concentration greater than the set method detection limit (MDL) and less than the set reporting limit (RDL).

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Microseeps Lab. Proj. # 4559

CHAIN - OF - CUSTODY RECORD

Microseeps COC cont. #

Phone: (412) 826-5245 Microseeps, Inc. - 220 William Pitt Way - Pittsburgh, PA 15238 Fax No.: (412) 826-3433

Company : ENVIRONMENT 1, INC

Co. Address : 114 OAKMONT DR, GREENVILLE, NC 27858

Phone # : 252-756-6208 Fax # : 252-756-0633

Proj. Manager : STEVE JONES

Proj. Name/Number : GRESNE CO. (6005)

Sampler's signature : [signature]

Cooler Temp. 3.2°C

Results to : SAME

Invoice to : SAME

Sample ID	Sample Description	Sample Type Water	Vapor	Solid	Date	Time	# Bottles	Parameters Requested: AVAPORGEN	MOTSANE/ETHANE/ETHENE	LLUFA	Remarks :
WL1R	WEL #1R	✓		✓	3/12/12	1:50pm	5	✓	✓	✓	
WEL 4	WEL #4	✓		✓	3/12/12	1:15pm	5	✓	✓	✓	
											FACILITY ID
											# 4002

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
[signature]	ENVIRONMENT 1	3/13/12	3:45P	[signature]	MS	3/20/12	1130
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :

WHITE COPY : Accompany Samples YELLOW COPY : Laboratory File PINK COPY : Submitter

Cooler Receipt Form

Client Name: Environment Project: Greene Co (6005) Lab Work Order: 4559

A. Shipping/Container Information (circle appropriate response)

Courier: FedEx (UPS) USPS Client Other:_____ Air bill Present: (Yes) No

Tracking Number: 12 203 7050 1 6569 4710

Custody Seal on Cooler/Box Present: Yes (No) Seals Intact: Yes No

Cooler/Box Packing Material: (Bubble Wrap) Absorbent Foam Other:_____

Type of Ice: (Wet) Blue None Ice Intact: (Yes) Melted

Cooler Temperature: 3.2°C Radiation Screened: Yes (No) Chain of Custody Present: (Yes) No

Comments:_____

B. Laboratory Assignment/Log-in (check appropriate response)

	YES	NO	N/A	Comment Reference non-Conformance
Chain of Custody properly filled out	✓			
Chain of Custody relinquished	✓			
Sampler Name & Signature on COC	✓			
Containers intact	✓			
Were samples in separate bags	✓			
Sample container labels match COC Sample name/date and time collected	✓			
Sufficient volume provided	✓			
Microseeps containers used	✓			
Are containers properly preserved for the requested testing? (as labeled)	✓			
If an unknown preservation state, were containers checked? Exception: VOA's coliform			✓	
Was volume for dissolved testing field filtered, as noted on the COC? Was volume received in a preserved container?			✓	

Comments:_____

Cooler contents examined/received by: HLY Date: 3/20/12

Project Manager Review: JS Date: 3/20/12

Appendix D

BIOCHLOR MODELING

GROUNDWATER MODELING

Greene C&D Landfill (40-02)

BIOCHLOR Modeling

BIOCHLOR was run to predict the fate of chlorinated contaminants migrating easterly from the landfill. Evidence that contamination is migrating from the landfill can be seen in well MW4, located approximately 50 ft downgradient from the eastern edge of the landfill. As of 3/19/12, chlorinated contaminant levels in MW4 have been as high as follows.

Chloroethane	18.6 ug/l
1,4-Dichlorobenzene	7.2 ug/l
1,1-Dichloroethane	2 ug/l
Cis-1,2-Dichlorothene	14.3 ug/l
Dichloromethane	1.1 ug/l
Ethene	0.15 ug/l
1,1,2-Trichloroethene	0.5 ug/l
Vinyl Chloride	10.3 ug/l

BIOCHLOR inputs consisted of data from past studies and monitoring events and default values provided in the BIOSCREEN Version 1.0 User's Manual.

MESCO/dmd/Sept 2012

BIOCHLOR INPUT DATA

Annual Modeling - 3/19/12 Monitoring Event
Greene C & D Landfill (40-02) - DCE, VC, Ethene

*Default values shown are within the ranges
provided in Biochlor User's Manual Versions 1.0 and 2.2

*(model) = output was provided by model

Input Category		Parameter	Units	Default*	MW4	
1. Hydrogeologic Data	seepage velocity	Vs	ft/yr	varies	(model)*	
	hydraulic conductivity	k	cm/sec	varies	1.10E-04	
	hydraulic gradient	i	ft/ft	varies	0.022	gradient between MW4 and MW7 (3/19/12)
	effective porosity	ne	unitless	.1 - .3	0.15	from past site report
2. Dispersivity	longitudinal dispersivity	alpha x	ft	.1 (Lp)	(model)	press calc alpha x, option 2
	transverse dispersivity	alpha y	ft	.1 (alpha x)	(model)	
	vertical dispersivity	alpha z	ft	.05 (alpha x)	(model)	
3. Adsorption Data	retardation factor	R	unitless	1 - 6	(model)	
	aquifer bulk density	Aquif rho bulk	kg/L	1.7	1.7	
	fraction organic carbon	Foc	unitless	0.001	1.00E-03	
	organic carbon partition coef	Koc	L/kg	see p. 11	125, 30	enter 125 and 30 for DCE and VC, respectively, in gray box on left
4. Biotransformation Data	first order decay coef	lambda	1/yr	see p. 12	.21, .27	enter low DCE and VC half-life values in Zone 1 gray box on right
	dissolved solvent half-life	t 1/2	yr	see p. 13	(model)	
	abiotic first order rate coef	Abiotic	1/yr	see p. 13	---	applies to Zone 2/modeled one zone only due to limited contamination
	byproduct yield	Yield	unitless	see p. 14	---	applies to Zone 2/modeled one zone only due to limited contamination
5. General Data	model area length and width	Model L & W	ft	varies	L=500, W=100	
	simulation time	Simul t	yr	1 - 1000	35,50	unlined landfill opened in 1982; effective time is 5 and 20 yrs from now
	zone 1 & zone 2 length	Z1 & Z2 L	ft	see p. 14-15	500	L=500' is minimum "typical value" (edge of fill to MW7 = 251')
6. Source Data	source area concentrations	Source	mg/l	see p. 16	.0143, .0103, .00015	Highest observed values for DCE, VC, Ethene (expressed in mg/l)
	source width	Source W	ft	varies	100	100' width is based on well control showing approx contamination limits
	source thickness	Source Z	ft	varies	10	approx value/used by MESCO previously when site was modeled
						***2012 CAER uses highest contam levels measured in MW4
7. Field Data for Comparison	concentration in well	Field conc	mg/l	varies	.0049, .0076	DCE and VC concentrations in MW4 (3/19/12)
	well distance from source	Distance	ft	varies	50	distance from upgradient edge of landfill (source) to MW4

Updated by Mark Durway (Municipal Engineering Services Company, P.A., Garner, NC) September 2012

Printout date 10/16/2012

Natural Attenuation Screening Protocol

The following is taken from the USEPA protocol (USEPA, 1998). The results of this scoring process have no regulatory significance.

Interpretation	Score
Inadequate evidence for anaerobic biodegradation* of chlorinated organics	0 to 5
Limited evidence for anaerobic biodegradation* of chlorinated organics	6 to 14
Adequate evidence for anaerobic biodegradation* of chlorinated organics	15 to 20
Strong evidence for anaerobic biodegradation* of chlorinated organics	>20

* reductive dechlorination

Score: 20

Scroll to End of Table

Analysis	Concentration in Most Contam. Zone	Interpretation	Yes	No	Points Awarded
Oxygen*	<0.5 mg/L	Tolerated, suppresses the reductive pathway at higher concentrations	○	◉	0
	> 5mg/L	Not tolerated; however, VC may be oxidized aerobically	○	◉	0
Nitrate*	<1 mg/L	At higher concentrations may compete with reductive pathway	◉	○	2
Iron II*	>1 mg/L	Reductive pathway possible; VC may be oxidized under Fe(III)-reducing conditions	◉	○	3
Sulfate*	<20 mg/L	At higher concentrations may compete with reductive pathway	◉	○	2
Sulfide*	>1 mg/L	Reductive pathway possible	○	◉	0
Methane*	>0.5 mg/L	Ultimate reductive daughter product, VC Accumulates	◉	○	3
Oxidation Reduction Potential* (ORP)	<50 millivolts (mV)	Reductive pathway possible	◉	○	1
	<-100mV	Reductive pathway likely	○	○	
pH*	5 < pH < 9	Optimal range for reductive pathway	◉	○	0
TOC	>20 mg/L	Carbon and energy source; drives dechlorination; can be natural or anthropogenic	○	◉	0
Temperature*	>20°C	At T >20°C biochemical process is accelerated	○	◉	0
Carbon Dioxide	>2x background	Ultimate oxidative daughter product	◉	○	1
Alkalinity	>2x background	Results from interaction of carbon dioxide with aquifer minerals	◉	○	1
Chloride*	>2x background	Daughter product of organic chlorine	○	◉	0
Hydrogen	>1 nM	Reductive pathway possible, VC may accumulate	◉	○	3
Volatile Fatty Acids	>0.1 mg/L	Intermediates resulting from biodegradation of aromatic compounds; carbon and energy source	○	◉	0
BTEX*	>0.1 mg/L	Carbon and energy source; drives dechlorination	○	◉	0
PCE*		Material released	○	◉	0
TCE*		Daughter product of PCE [a/]	○	◉	0
DCE*		Daughter product of TCE. If cis is greater than 80% of total DCE it is likely a daughter product of TCE[a/]; 1,1-DCE can be a chem. reaction product of TCA	◉	○	2
VC*		Daughter product of DCE[a/]	◉	○	2
1,1,1-Trichloroethane*		Material released	○	◉	0
DCA		Daughter product of TCA under reducing conditions	○	◉	0
Carbon Tetrachloride		Material released	○	◉	0
Chloroethane*		Daughter product of DCA or VC under reducing conditions	○	◉	0
Ethene/Ethane	>0.01 mg/L	Daughter product of VC/ethene	○	◉	0
	>0.1 mg/L	Daughter product of VC/ethene	○	◉	0
Chloroform		Daughter product of Carbon Tetrachloride	○	◉	0
Dichloromethane		Daughter product of Chloroform	○	◉	0

* required analysis.
a/ Points awarded only if it can be shown that the compound is a daughter product (i.e., not a constituent of the source NAPL).

SCORE

Reset

End of Form

BIOCHLOR Natural Attenuation Decision Support System

Version 2.2
Excel 2000

Greene CDLF
3/19/2012 | LOW
Run Name

TYPE OF CHLORINATED SOLVENT: Ethenes ◉ Ethanes ○

1. ADVECTION

Seepage Velocity*	Vs	16.7	(ft/yr)
or			
Hydraulic Conductivity	K	1.1E-04	(cm/sec)
Hydraulic Gradient	i	0.022	(ft/ft)
Effective Porosity	n	0.15	(-)

2. DISPERSION

Alpha x*	20	(ft)
(Alpha y) / (Alpha x)*	0.1	(-)
(Alpha z) / (Alpha x)*	1.E-99	(-)

Calc. Alpha x

3. ADSORPTION

Retardation Factor* → R

or

Soil Bulk Density, rho	1.7	(kg/L)		
FractionOrganicCarbon, foc	1.0E-3	(-)		
Partition Coefficient	Koc			
PCE		(L/kg)	1.00	(-)
TCE		(L/kg)	1.00	(-)
DCE	125	(L/kg)	2.42	(-)
VC	30	(L/kg)	1.34	(-)
ETH		(L/kg)	1.00	(-)
Common R (used in model)* =			**1.00**	

4. BIOTRANSFORMATION

-1st Order Decay Coefficient*

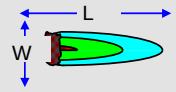
Zone 1	λ (1/yr)	half-life (yrs)	Yield
PCE → TCE	0.000		0.79
TCE → DCE	0.000		0.74
DCE → VC	3.300	0.21	0.64
VC → ETH	2.567	0.27	0.45

Zone 2	λ (1/yr)	half-life (yrs)
PCE → TCE	0.000	
TCE → DCE	0.000	
DCE → VC	0.000	
VC → ETH	0.000	

λ HELP

5. GENERAL

Simulation Time*	35	(yr)
Modeled Area Width*	100	(ft)
Modeled Area Length*	500	(ft)
Zone 1 Length*	500	(ft)
Zone 2 Length*	0	(ft)



Zone 2= L - Zone 1

6. SOURCE DATA

TYPE: Continuous Single Planar

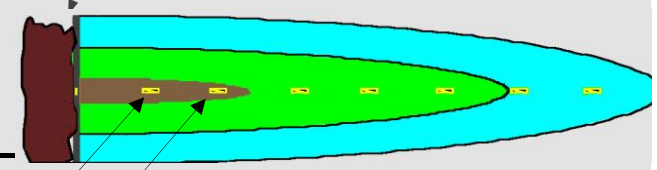
Source Options

Source Thickness in Sat. Zone* 10 (ft)

Width* (ft) Y1 100

Conc. (mg/L)*	C1	k_s* (1/yr)
PCE		0
TCE		0
DCE	1.40E-02	0
VC	1.00E-02	0
ETH	1.50E-04	0

Vertical Plane Source: Determine Source Well Location and Input Solvent Concentrations



View of Plume Looking Down

Observed Centerline Conc. at Monitoring Wells

7. FIELD DATA FOR COMPARISON

PCE Conc. (mg/L)	0.0E+00	0.E+00									
TCE Conc. (mg/L)	0.0E+00	0.E+00									
DCE Conc. (mg/L)	0.0E+00	0.E+00									
VC Conc. (mg/L)	7.6E-03	0.E+00									
ETH Conc. (mg/L)	1.5E-04	0.E+00									
Distance from Source (ft)	50	250									
Date Data Collected	3/19/12										

Data Input Instructions:

115 → 1. Enter value directly....or
↑ *or* 0.02 → 2. Calculate by filling in gray cells. Press Enter, then C

(To restore formulas, hit "Restore Formulas" button)

Variable* → Data used directly in model.

Test if Biotransformation is Occurring → Natural Attenuation Screening Protocol

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE | RUN ARRAY | *Help* | Restore Formulas | RESET | *SEE OUTPUT* | Paste Example

Greene Active CDLF over Closed MSWLF
(March 19, 2012)

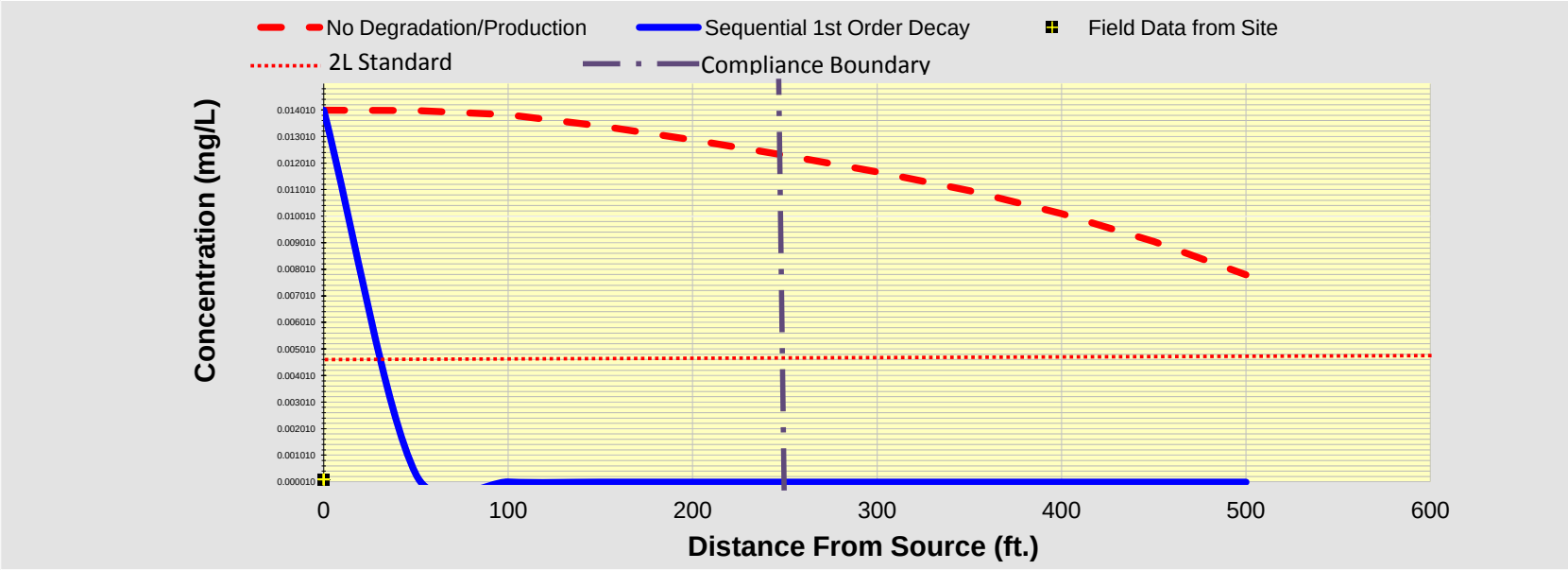
DISSOLVED CHLORINATED SOLVENT CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

Distance from Source (ft)

DCE	0	50	100	150	200	250	300	350	400	450	500
No Degradation	1.400E-02	1.399E-02	1.382E-02	1.341E-02	1.288E-02	1.231E-02	1.168E-02	1.097E-02	1.011E-02	9.054E-03	7.801E-03
Biotransformation	1.400E-02	2.902E-04	5.945E-06	1.197E-07	2.389E-09	4.757E-11	9.473E-13	1.889E-14	3.775E-16	7.557E-18	1.516E-19

Monitoring Well Locations (ft)

	50	250									
Field Data from Site	0.000	0.000									



See PCE

See TCE

See DCE

See VC

See ETH

Prepare Animation

Time:
35.0 Years
Log ⇔ Linear

Return to Input

To All

To Array

Start Here →

- ○ PCE
- ○ TCE
- ◉ DCE
- ○ VC
- ○ ETH

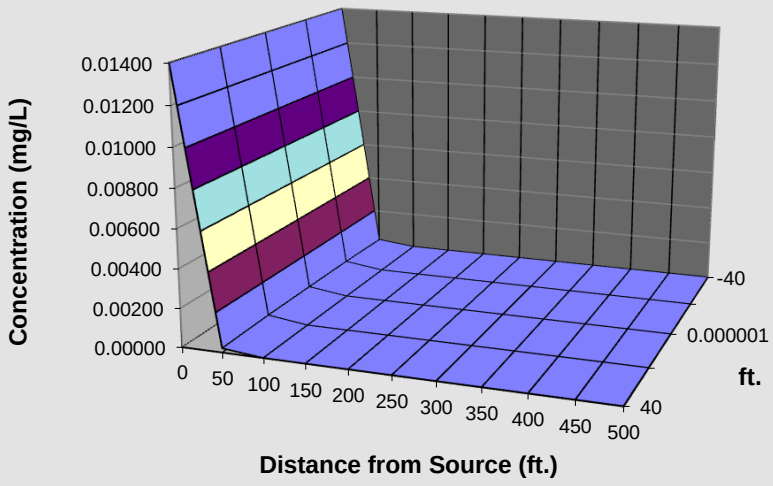
DISSOLVED SOLVENT CONCENTRATIONS IN PLUME

Transverse Distance (ft) ↓	Distance from Source (ft) 0	50	100	150	200	250	300	350	400	450	500
40	1.400E-02	2.207E-04	4.163E-06	8.218E-08	1.650E-09	3.338E-11	6.777E-13	1.379E-14	2.807E-16	5.719E-18	1.166E-19
20	1.400E-02	2.854E-04	5.616E-06	1.108E-07	2.197E-09	4.376E-11	8.739E-13	1.749E-14	3.510E-16	7.054E-18	1.420E-19
0	1.400E-02	2.902E-04	5.945E-06	1.197E-07	2.389E-09	4.757E-11	9.473E-13	1.889E-14	3.775E-16	7.557E-18	1.516E-19
-20	1.400E-02	2.854E-04	5.616E-06	1.108E-07	2.197E-09	4.376E-11	8.739E-13	1.749E-14	3.510E-16	7.054E-18	1.420E-19
-40	1.400E-02	2.207E-04	4.163E-06	8.218E-08	1.650E-09	3.338E-11	6.777E-13	1.379E-14	2.807E-16	5.719E-18	1.166E-19
MASS RATE (mg/day)	2.7E+0	5.1E-2	9.9E-4	2.0E-5	3.9E-7	7.8E-9	1.6E-10	3.2E-12	6.4E-14	1.3E-15	2.6E-17

Show No Degradation

Show Biotransformation

Time: 35 yr Target Level: 0.070 mg/L Displayed Model: Biotransformation Displayed Compound: DCE



Plume Mass (Order-of-Magnitude Accuracy)

See Gallons

Plume Mass If No Degradation	2.274E-02	(Kg)
- Plume Mass If Biotransformation/Production	1.542E-03	(Kg)
Mass Removed	2.119E-02	(Kg)
% Biotransformed =	+93.2%	
% Change in Mass Rate =	100.0 %	(source to edge)

If "Can't Calc.", make model area longer

See acre-ft

Current Volume of Ground Water in Plume	5.610E-02	MGal
Flow Rate of Water Through Source Area	5.131E-05	MGD

Compare to Pump and Treat

Pumping Rate		(gpm)
# Pore Volumes Removed Per Yr.	0.00	
# Pore Volumes to Clean-Up		
Clean-Up Time		(yr)

Plot All Data Plot Data > Target Mass HELP To Centerline Return to Input

Greene Active CDLF over Closed MSWLF
(March 19, 2012)

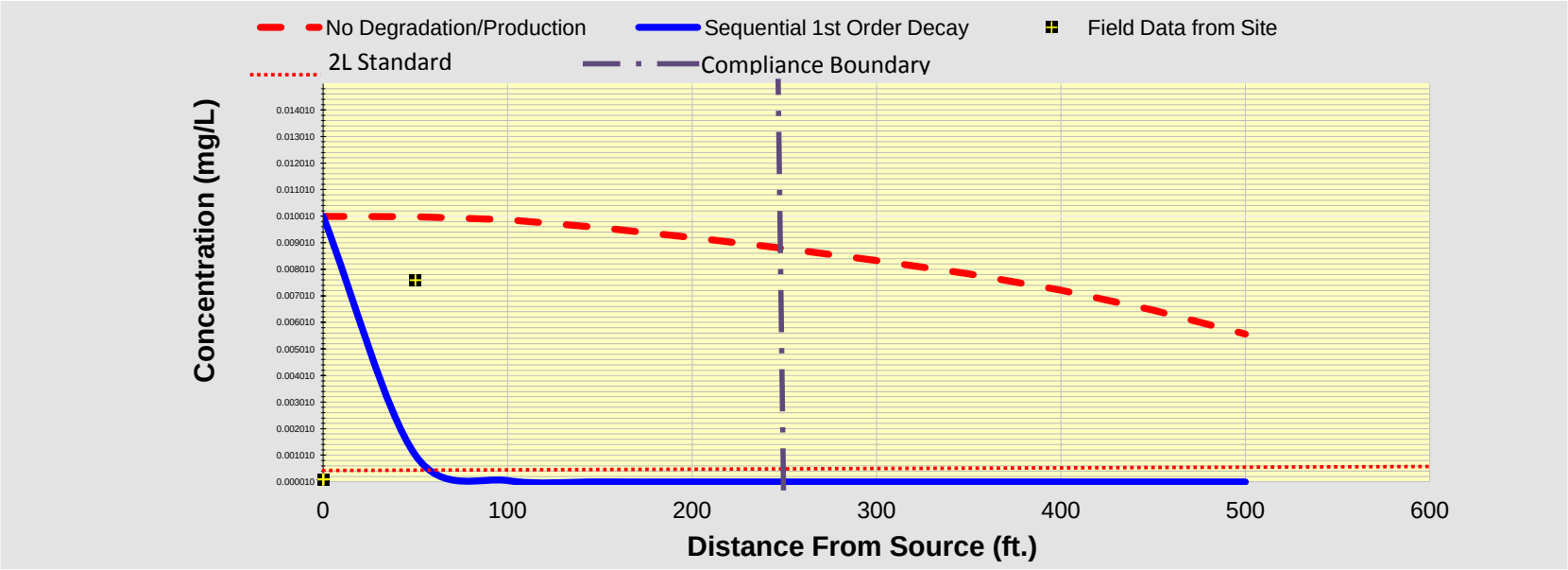
DISSOLVED CHLORINATED SOLVENT CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

Distance from Source (ft)

VC	0	50	100	150	200	250	300	350	400	450	500
No Degradation	1.000E-02	9.996E-03	9.874E-03	9.580E-03	9.203E-03	8.792E-03	8.344E-03	7.833E-03	7.218E-03	6.467E-03	5.572E-03
Biotransformation	1.000E-02	1.008E-03	4.958E-05	2.025E-06	7.654E-08	2.792E-09	1.001E-10	3.563E-12	1.263E-13	4.476E-15	1.586E-16

Monitoring Well Locations (ft)

	50	250									
Field Data from Site	0.008	0.000									



See PCE

See TCE

See DCE

See VC

See ETH

Prepare Animation

Time:
35.0 Years
Log ⟺ Linear

Return to Input

To All

To Array

Greene CDLF over Closed MSWLF
(March 19, 2012)

Start Here → ○ PCE ○ TCE ○ DCE ◉ VC ○ ETH

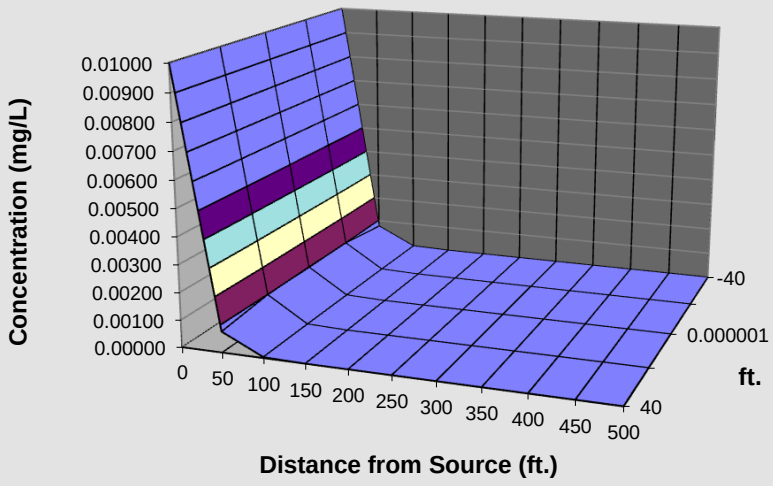
DISSOLVED SOLVENT CONCENTRATIONS IN PLUME

Transverse Distance (ft) ↓	*Distance from Source (ft)* 0	50	100	150	200	250	300	350	400	450	500
40	1.000E-02	7.667E-04	3.471E-05	1.390E-06	5.287E-08	1.960E-09	7.164E-11	2.600E-12	9.395E-14	3.387E-15	1.220E-16
20	1.000E-02	9.914E-04	4.684E-05	1.874E-06	7.041E-08	2.569E-09	9.238E-11	3.299E-12	1.175E-13	4.178E-15	1.486E-16
0	1.000E-02	1.008E-03	4.958E-05	2.025E-06	7.654E-08	2.792E-09	1.001E-10	3.563E-12	1.263E-13	4.476E-15	1.586E-16
-20	1.000E-02	9.914E-04	4.684E-05	1.874E-06	7.041E-08	2.569E-09	9.238E-11	3.299E-12	1.175E-13	4.178E-15	1.486E-16
-40	1.000E-02	7.667E-04	3.471E-05	1.390E-06	5.287E-08	1.960E-09	7.164E-11	2.600E-12	9.395E-14	3.387E-15	1.220E-16
MASS RATE (mg/day)	1.9E+0	1.8E-1	8.3E-3	3.3E-4	1.3E-5	4.6E-7	1.7E-8	6.0E-10	2.1E-11	7.6E-13	2.7E-14

Show No Degradation

Show Biotransformation

Time: 35 yr Target Level: **0.002** mg/L Displayed Model: **Biotransformation** Displayed Compound: **VC**



Plume Mass (Order-of-Magnitude Accuracy)

See Gallons

Plume Mass If No Degradation	1.624E-02	*(Kg)*
- Plume Mass If Biotransformation/Production	1.263E-03	*(Kg)*
Mass Removed	1.498E-02	*(Kg)*
% Biotransformed =	**+92.2%**	
% Change in Mass Rate =	**100.0 %**	(source to edge)

If "Can't Calc.", make model area longer

See acre-ft

Current Volume of Ground Water in Plume	5.610E-02	*MGal*
Flow Rate of Water Through Source Area	5.131E-05	*MGD*

Compare to Pump and Treat

Pumping Rate		*(gpm)*
# Pore Volumes Removed Per Yr.	0.00	
# Pore Volumes to Clean-Up		
Clean-Up Time		*(yr)*

Plot All Data Plot Data > Target

Mass HELP **To Centerline** **Return to Input**

Greene Active CDLF over Closed MSWLF
(March 19, 2012)

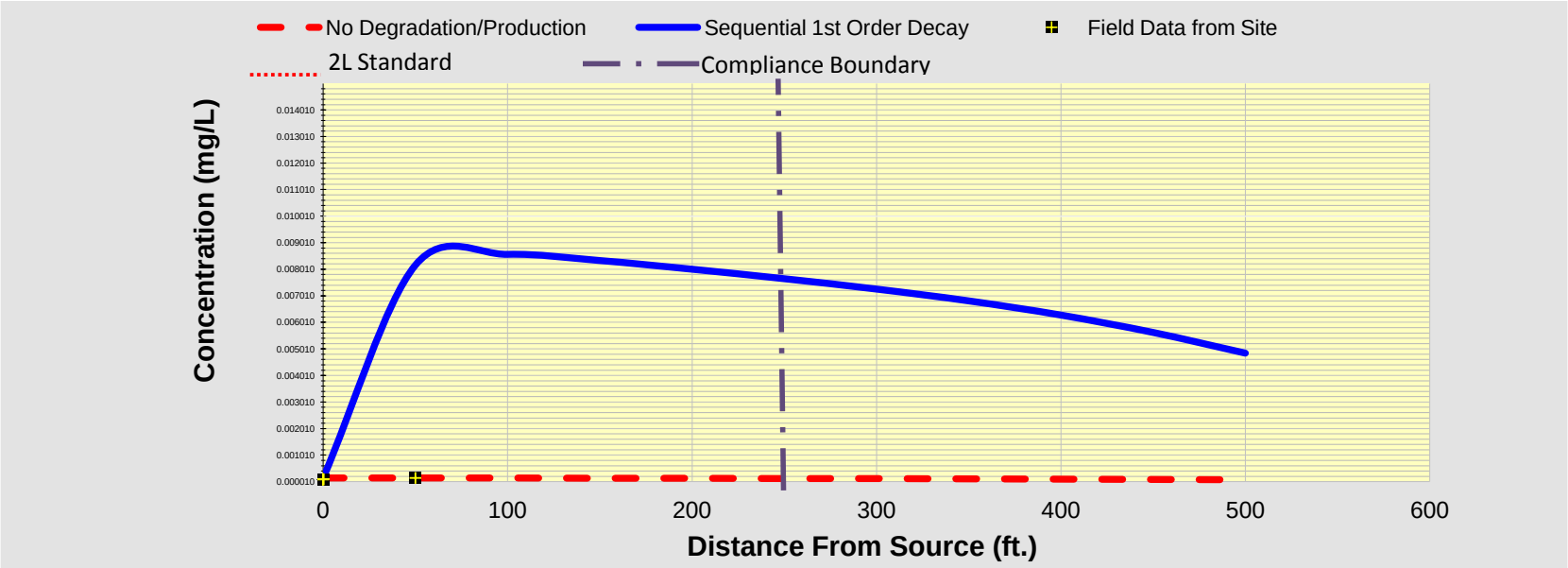
DISSOLVED CHLORINATED SOLVENT CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

Distance from Source (ft)

ETH	0	50	100	150	200	250	300	350	400	450	500
No Degradation	1.500E-04	1.499E-04	1.481E-04	1.437E-04	1.380E-04	1.319E-04	1.252E-04	1.175E-04	1.083E-04	9.700E-05	8.358E-05
Biotransformation	1.500E-04	8.165E-03	8.572E-03	8.339E-03	8.012E-03	7.654E-03	7.264E-03	6.819E-03	6.284E-03	5.630E-03	4.851E-03

Monitoring Well Locations (ft)

	50	250									
Field Data from Site	0.000	0.000									



See PCE

See TCE

See DCE

See VC

See ETH

Prepare Animation

Time:
35.0 Years
Log ⇔ Linear

Return to Input

To All

To Array

Greene CDLF over Closed MSWLF
(March 19, 2012)

Start Here → ○ PCE ○ TCE ○ DCE ○ VC ◉ ETH

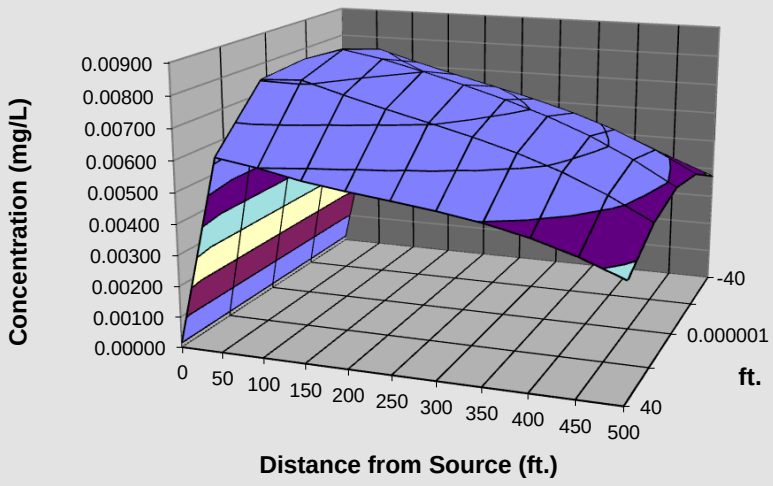
DISSOLVED SOLVENT CONCENTRATIONS IN PLUME

Transverse Distance (ft) ↓	*Distance from Source (ft)* 0	50	100	150	200	250	300	350	400	450	500
40	1.500E-04	6.210E-03	6.002E-03	5.726E-03	5.534E-03	5.371E-03	5.197E-03	4.976E-03	4.673E-03	4.261E-03	3.731E-03
20	1.500E-04	8.030E-03	8.098E-03	7.719E-03	7.370E-03	7.041E-03	6.701E-03	6.315E-03	5.843E-03	5.256E-03	4.545E-03
0	1.500E-04	8.165E-03	8.572E-03	8.339E-03	8.012E-03	7.654E-03	7.264E-03	6.819E-03	6.284E-03	5.630E-03	4.851E-03
-20	1.500E-04	8.030E-03	8.098E-03	7.719E-03	7.370E-03	7.041E-03	6.701E-03	6.315E-03	5.843E-03	5.256E-03	4.545E-03
-40	1.500E-04	6.210E-03	6.002E-03	5.726E-03	5.534E-03	5.371E-03	5.197E-03	4.976E-03	4.673E-03	4.261E-03	3.731E-03
MASS RATE (mg/day)	2.9E-2	1.4E+0	1.4E+0	1.4E+0	1.3E+0	1.3E+0	1.2E+0	1.1E+0	1.1E+0	9.6E-1	8.3E-1

Show No Degradation

Show Biotransformation

Time: 35 yr Target Level: mg/L Displayed Model: **Biotransformation** Displayed Compound: **ETH**



Plume Mass (Order-of-Magnitude Accuracy)

See Gallons

Plume Mass If No Degradation	2.436E-04	*(Kg)*
- Plume Mass If Biotransformation/Production	1.312E-02	*(Kg)*
Mass Removed	-1.288E-02	*(Kg)*

If "Can't Calc.", make model area longer

% Biotransformed = -5287.3 %

% Change in Mass Rate = -2753.6 % (source to edge)

See acre-ft

Current Volume of Ground Water in Plume	4.376E-01	*MGal*
Flow Rate of Water Through Source Area	5.131E-05	*MGD*

Compare to Pump and Treat

Pumping Rate		*(gpm)*
# Pore Volumes Removed Per Yr.	0.00	
# Pore Volumes to Clean-Up		
Clean-Up Time		*(yr)*

Plot All Data Plot Data > Target

Mass HELP **To Centerline** **Return to Input**

BIOCHLOR Natural Attenuation Decision Support System

Version 2.2
Excel 2000

Greene CDLF
3/19/2012
Run Name

TYPE OF CHLORINATED SOLVENT: Ethenes ◉ Ethanes ○

1. ADVECTION

Seepage Velocity*	Vs	16.7	(ft/yr)
or			
Hydraulic Conductivity	K	1.1E-04	(cm/sec)
Hydraulic Gradient	i	0.022	(ft/ft)
Effective Porosity	n	0.15	(-)

2. DISPERSION

Alpha x*	20	(ft)
(Alpha y) / (Alpha x)*	0.1	(-)
(Alpha z) / (Alpha x)*	1.E-99	(-)

Calc. Alpha x

3. ADSORPTION

Retardation Factor* → R

or

Soil Bulk Density, rho	1.7	(kg/L)		
FractionOrganicCarbon, foc	1.0E-3	(-)		
Partition Coefficient	Koc			
PCE		(L/kg)	1.00	(-)
TCE		(L/kg)	1.00	(-)
DCE	125	(L/kg)	2.42	(-)
VC	30	(L/kg)	1.34	(-)
ETH		(L/kg)	1.00	(-)
Common R (used in model)* =			**1.00**	

4. BIOTRANSFORMATION

-1st Order Decay Coefficient*

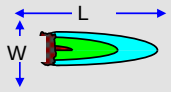
Zone 1	λ (1/yr)	half-life (yrs)	Yield
PCE → TCE	0.000		0.79
TCE → DCE	0.000		0.74
DCE → VC	3.300	0.21	0.64
VC → ETH	2.567	0.27	0.45

Zone 2	λ (1/yr)	half-life (yrs)
PCE → TCE	0.000	
TCE → DCE	0.000	
DCE → VC	0.000	
VC → ETH	0.000	

λ HELP

5. GENERAL

Simulation Time*	50	(yr)
Modeled Area Width*	100	(ft)
Modeled Area Length*	500	(ft)
Zone 1 Length*	500	(ft)
Zone 2 Length*	0	(ft)



Zone 2= L - Zone 1

6. SOURCE DATA

TYPE: Continuous Single Planar

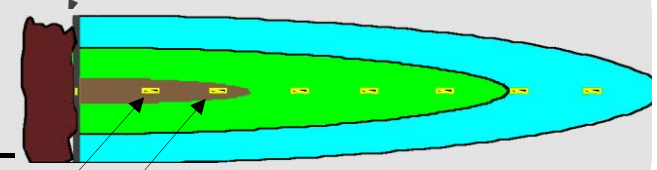
Source Options

Source Thickness in Sat. Zone* 10 (ft)

Width* (ft) Y1 100

Conc. (mg/L)*	C1	k_s* (1/yr)
PCE		0
TCE		0
DCE	1.40E-02	0
VC	1.00E-02	0
ETH	1.50E-04	0

Vertical Plane Source: Determine Source Well Location and Input Solvent Concentrations



View of Plume Looking Down

Observed Centerline Conc. at Monitoring Wells

7. FIELD DATA FOR COMPARISON

PCE Conc. (mg/L)	0.0E+00	0.E+00									
TCE Conc. (mg/L)	0.0E+00	0.E+00									
DCE Conc. (mg/L)	0.0E+00	0.E+00									
VC Conc. (mg/L)	7.6E-03	0.E+00									
ETH Conc. (mg/L)	1.5E-04	0.E+00									
Distance from Source (ft)	50	250									
Date Data Collected	3/19/12										

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE | RUN ARRAY | Help | Restore Formulas | RESET | SEE OUTPUT | Paste Example

Data Input Instructions:

115 → 1. Enter value directly....or
↑ or
0.02 → 2. Calculate by filling in gray cells. Press Enter, then C

(To restore formulas, hit "Restore Formulas" button)

Variable* → Data used directly in model.

Test if Biotransformation is Occurring → Natural Attenuation Screening Protocol

Greene Active CDLF over Closed MSWLF
(March 19, 2012)

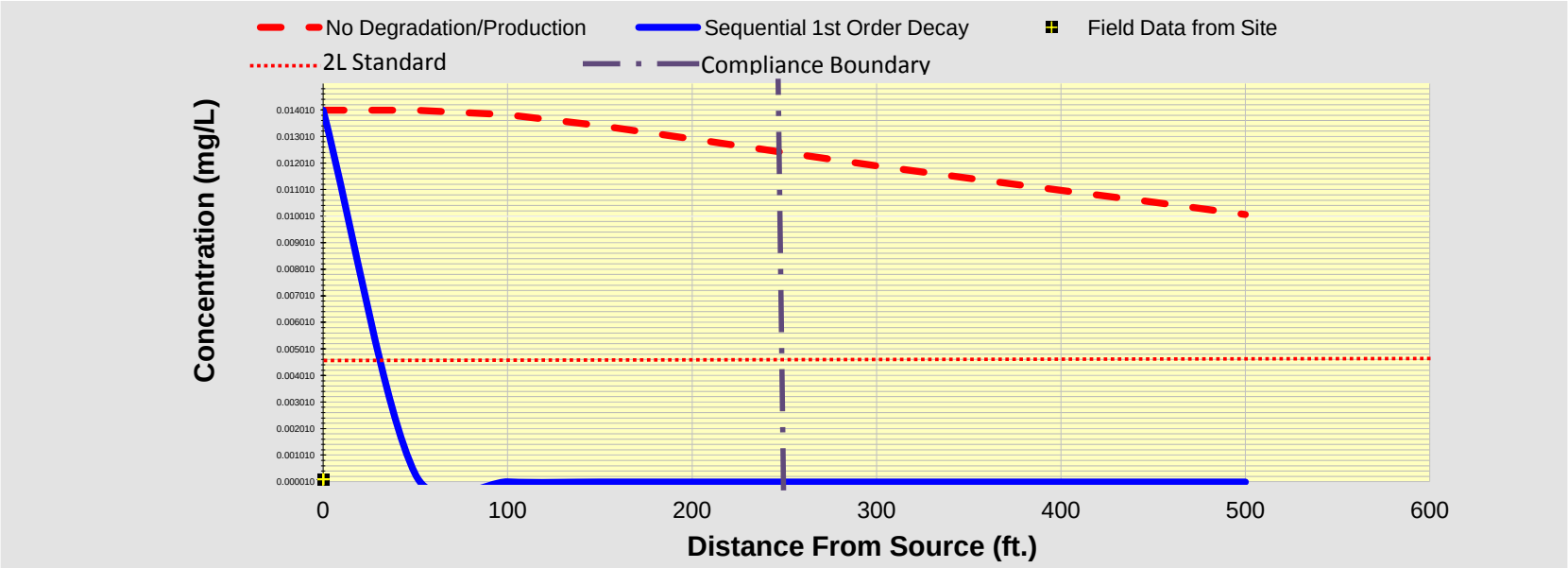
DISSOLVED CHLORINATED SOLVENT CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

Distance from Source (ft)

DCE	0	50	100	150	200	250	300	350	400	450	500
No Degradation	1.400E-02	1.399E-02	1.383E-02	1.342E-02	1.292E-02	1.240E-02	1.191E-02	1.143E-02	1.098E-02	1.054E-02	1.007E-02
Biotransformation	1.400E-02	2.902E-04	5.945E-06	1.197E-07	2.389E-09	4.757E-11	9.473E-13	1.889E-14	3.775E-16	7.557E-18	1.516E-19

Monitoring Well Locations (ft)

	50	250									
Field Data from Site	0.000	0.000									



See PCE

See TCE

See DCE

See VC

See ETH

Prepare Animation

Time:
50.0 Years
Log ⟺ Linear

Return to Input

To All

To Array

Greene CDLF over Closed MSWLF
(March 19, 2012)

Start Here → ○ PCE ○ TCE ◉ DCE ○ VC ○ ETH

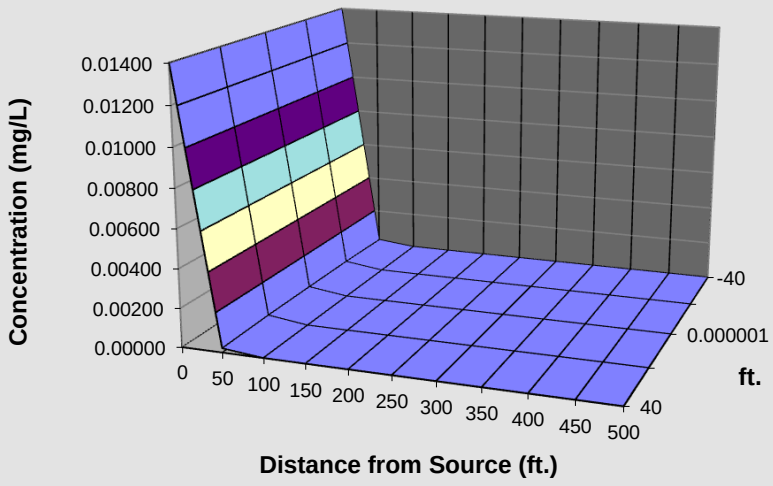
DISSOLVED SOLVENT CONCENTRATIONS IN PLUME

Transverse Distance (ft) ↓	*Distance from Source (ft)* 0	50	100	150	200	250	300	350	400	450	500
40	1.400E-02	2.207E-04	4.163E-06	8.218E-08	1.650E-09	3.338E-11	6.777E-13	1.379E-14	2.807E-16	5.719E-18	1.166E-19
20	1.400E-02	2.854E-04	5.616E-06	1.108E-07	2.197E-09	4.376E-11	8.739E-13	1.749E-14	3.510E-16	7.054E-18	1.420E-19
0	1.400E-02	2.902E-04	5.945E-06	1.197E-07	2.389E-09	4.757E-11	9.473E-13	1.889E-14	3.775E-16	7.557E-18	1.516E-19
-20	1.400E-02	2.854E-04	5.616E-06	1.108E-07	2.197E-09	4.376E-11	8.739E-13	1.749E-14	3.510E-16	7.054E-18	1.420E-19
-40	1.400E-02	2.207E-04	4.163E-06	8.218E-08	1.650E-09	3.338E-11	6.777E-13	1.379E-14	2.807E-16	5.719E-18	1.166E-19
MASS RATE (mg/day)	2.7E+0	5.1E-2	9.9E-4	2.0E-5	3.9E-7	7.8E-9	1.6E-10	3.2E-12	6.4E-14	1.3E-15	2.6E-17

Show No Degradation

Show Biotransformation

Time: 50 yr Target Level: **0.070** mg/L Displayed Model: **Biotransformation** Displayed Compound: **DCE**



Plume Mass (Order-of-Magnitude Accuracy)

See Gallons

Plume Mass If No Degradation	2.375E-02	*(Kg)*
- Plume Mass If Biotransformation/Production	1.542E-03	*(Kg)*
Mass Removed	2.221E-02	*(Kg)*
% Biotransformed =	**+93.5%**	
% Change in Mass Rate =	**100.0 %**	(source to edge)

If "Can't Calc.", make model area longer

See acre-ft

Current Volume of Ground Water in Plume	5.610E-02	*MGal*
Flow Rate of Water Through Source Area	5.131E-05	*MGD*

Compare to Pump and Treat

Pumping Rate		*(gpm)*
# Pore Volumes Removed Per Yr.	0.00	
# Pore Volumes to Clean-Up		
Clean-Up Time		*(yr)*

Plot All Data Plot Data > Target

Mass HELP **To Centerline** **Return to Input**

Greene Active CDLF over Closed MSWLF
(March 19, 2012)

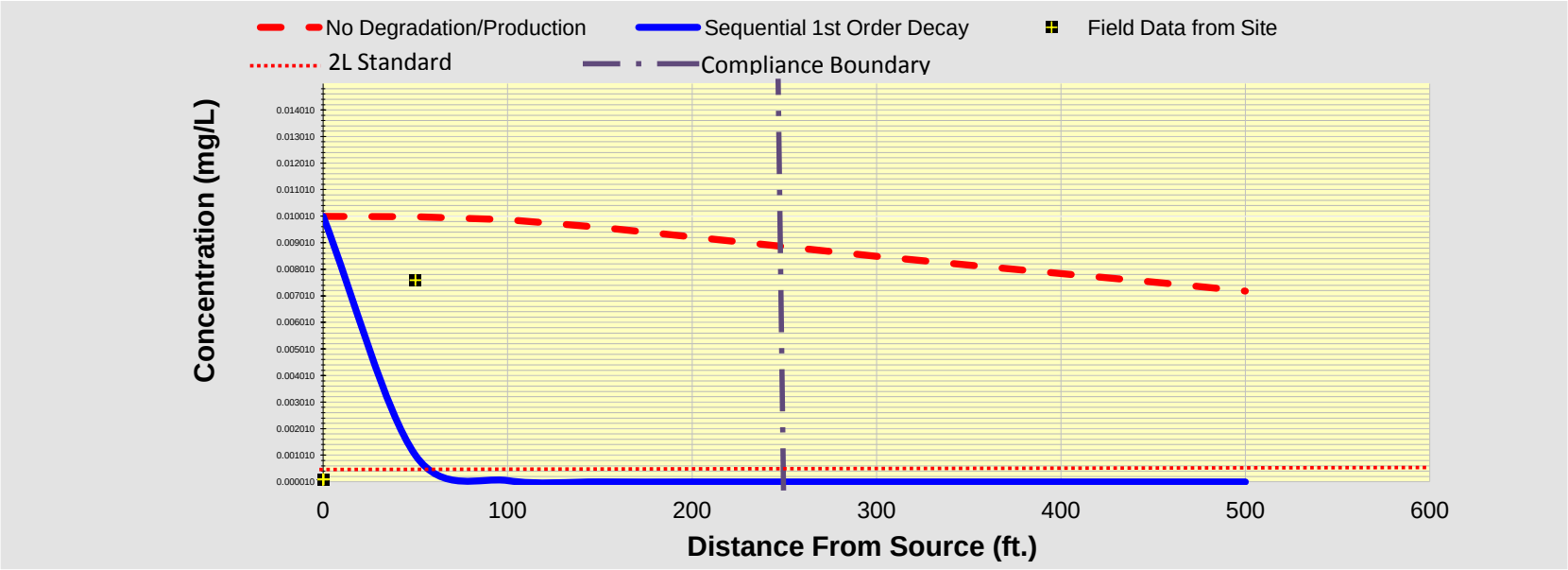
DISSOLVED CHLORINATED SOLVENT CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

Distance from Source (ft)

VC	0	50	100	150	200	250	300	350	400	450	500
No Degradation	1.000E-02	9.996E-03	9.876E-03	9.587E-03	9.228E-03	8.859E-03	8.504E-03	8.167E-03	7.845E-03	7.526E-03	7.191E-03
Biotransformation	1.000E-02	1.008E-03	4.958E-05	2.025E-06	7.654E-08	2.792E-09	1.001E-10	3.563E-12	1.263E-13	4.476E-15	1.586E-16

Monitoring Well Locations (ft)

	50	250									
Field Data from Site	0.008	0.000									



See PCE

See TCE

See DCE

See VC

See ETH

Prepare Animation

Time:
50.0 Years
Log ⟺ Linear

Return to Input

To All

To Array

Greene CDLF over Closed MSWLF
(March 19, 2012)

Start Here → ○ PCE ○ TCE ○ DCE ◉ VC ○ ETH

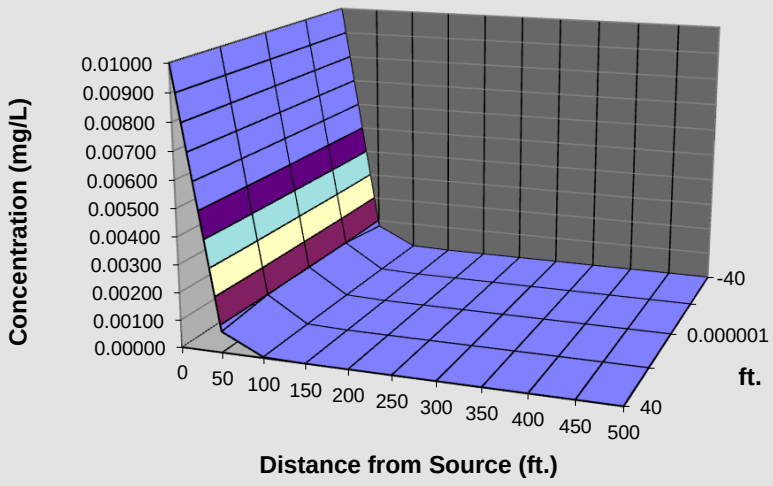
DISSOLVED SOLVENT CONCENTRATIONS IN PLUME

Transverse Distance (ft) ↓	*Distance from Source (ft)* 0	50	100	150	200	250	300	350	400	450	500
40	1.000E-02	7.667E-04	3.471E-05	1.390E-06	5.287E-08	1.960E-09	7.164E-11	2.600E-12	9.395E-14	3.387E-15	1.220E-16
20	1.000E-02	9.914E-04	4.684E-05	1.874E-06	7.041E-08	2.569E-09	9.238E-11	3.299E-12	1.175E-13	4.178E-15	1.486E-16
0	1.000E-02	1.008E-03	4.958E-05	2.025E-06	7.654E-08	2.792E-09	1.001E-10	3.563E-12	1.263E-13	4.476E-15	1.586E-16
-20	1.000E-02	9.914E-04	4.684E-05	1.874E-06	7.041E-08	2.569E-09	9.238E-11	3.299E-12	1.175E-13	4.178E-15	1.486E-16
-40	1.000E-02	7.667E-04	3.471E-05	1.390E-06	5.287E-08	1.960E-09	7.164E-11	2.600E-12	9.395E-14	3.387E-15	1.220E-16
MASS RATE (mg/day)	1.9E+0	1.8E-1	8.3E-3	3.3E-4	1.3E-5	4.6E-7	1.7E-8	6.0E-10	2.1E-11	7.6E-13	2.7E-14

Show No Degradation

Show Biotransformation

Time: 50 yr Target Level: 0.002 mg/L Displayed Model: Biotransformation Displayed Compound: VC



Plume Mass (Order-of-Magnitude Accuracy)

See Gallons

Plume Mass If No Degradation	1.696E-02	*(Kg)*
- Plume Mass If Biotransformation/Production	1.263E-03	*(Kg)*
Mass Removed	1.570E-02	*(Kg)*
% Biotransformed =	**+92.6%**	
% Change in Mass Rate =	**100.0 %**	(source to edge)

If "Can't Calc.", make model area longer

See acre-ft

Current Volume of Ground Water in Plume	5.610E-02	*MGal*
Flow Rate of Water Through Source Area	5.131E-05	*MGD*

Compare to Pump and Treat

Pumping Rate		*(gpm)*
# Pore Volumes Removed Per Yr.	0.00	
# Pore Volumes to Clean-Up		
Clean-Up Time		*(yr)*

Plot All Data Plot Data > Target Mass HELP To Centerline Return to Input

Greene Active CDLF over Closed MSWLF
(March 19, 2012)

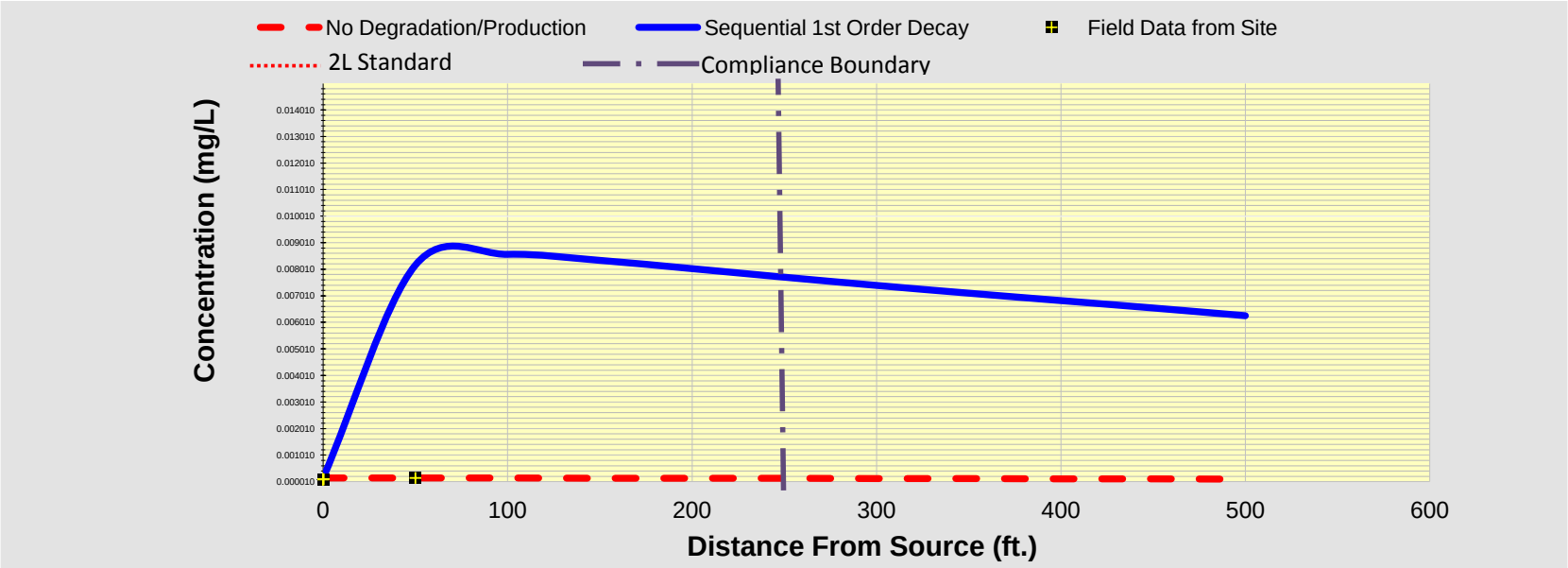
DISSOLVED CHLORINATED SOLVENT CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

Distance from Source (ft)

ETH	0	50	100	150	200	250	300	350	400	450	500
No Degradation	1.500E-04	1.499E-04	1.481E-04	1.438E-04	1.384E-04	1.329E-04	1.276E-04	1.225E-04	1.177E-04	1.129E-04	1.079E-04
Biotransformation	1.500E-04	8.165E-03	8.574E-03	8.346E-03	8.034E-03	7.712E-03	7.403E-03	7.110E-03	6.830E-03	6.552E-03	6.261E-03

Monitoring Well Locations (ft)

	50	250									
Field Data from Site	0.000	0.000									



See PCE

See TCE

See DCE

See VC

See ETH

Prepare Animation

Time:
50.0 Years
Log ⟺ Linear

Return to Input

To All

To Array

Greene CDLF over Closed MSWLF
(March 19, 2012)

Start Here → ○ PCE ○ TCE ○ DCE ○ VC ◉ ETH

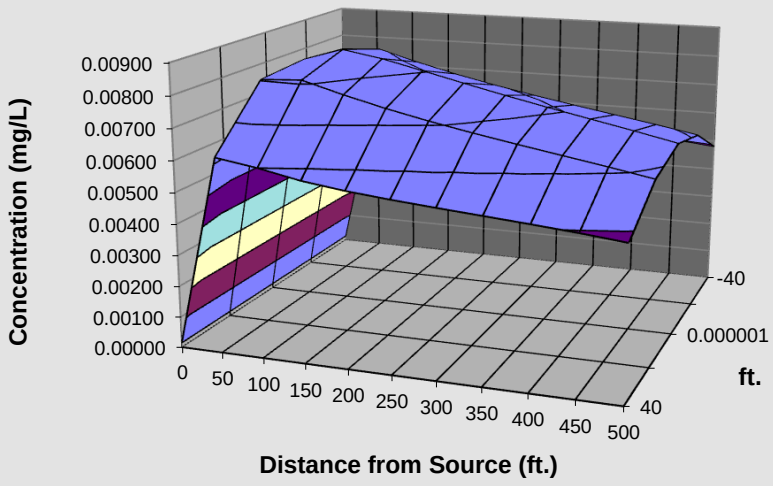
DISSOLVED SOLVENT CONCENTRATIONS IN PLUME

Transverse Distance (ft) ↓	*Distance from Source (ft)* 0	50	100	150	200	250	300	350	400	450	500
40	1.500E-04	6.210E-03	6.003E-03	5.731E-03	5.549E-03	5.412E-03	5.296E-03	5.188E-03	5.079E-03	4.958E-03	4.815E-03
20	1.500E-04	8.030E-03	8.099E-03	7.726E-03	7.390E-03	7.095E-03	6.829E-03	6.584E-03	6.350E-03	6.116E-03	5.866E-03
0	1.500E-04	8.165E-03	8.574E-03	8.346E-03	8.034E-03	7.712E-03	7.403E-03	7.110E-03	6.830E-03	6.552E-03	6.261E-03
-20	1.500E-04	8.030E-03	8.099E-03	7.726E-03	7.390E-03	7.095E-03	6.829E-03	6.584E-03	6.350E-03	6.116E-03	5.866E-03
-40	1.500E-04	6.210E-03	6.003E-03	5.731E-03	5.549E-03	5.412E-03	5.296E-03	5.188E-03	5.079E-03	4.958E-03	4.815E-03
MASS RATE (mg/day)	2.9E-2	1.4E+0	1.4E+0	1.4E+0	1.3E+0	1.3E+0	1.2E+0	1.2E+0	1.2E+0	1.1E+0	1.1E+0

Show No Degradation

Show Biotransformation

Time: 50 yr Target Level: mg/L Displayed Model: **Biotransformation** Displayed Compound: **ETH**



Plume Mass (Order-of-Magnitude Accuracy)

See Gallons

Plume Mass If No Degradation	2.545E-04	*(Kg)*
- Plume Mass If Biotransformation/Production	1.375E-02	*(Kg)*
Mass Removed	-1.350E-02	*(Kg)*
% Biotransformed =	**-5305.1 %**	
% Change in Mass Rate =	**-3583.1 %** (source to edge)	

If "Can't Calc.", make model area longer

See acre-ft

Current Volume of Ground Water in Plume	Can't Calc.	*MGal*
Flow Rate of Water Through Source Area	5.131E-05	*MGD*

Compare to Pump and Treat

Pumping Rate		*(gpm)*
# Pore Volumes Removed Per Yr.		
# Pore Volumes to Clean-Up		
Clean-Up Time		*(yr)*

Plot All Data Plot Data > Target Mass HELP To Centerline Return to Input