Semi-Annual Water Quality Monitoring Report

Prepared for

Cherokee County Subtitle D Lined MSWLF
Marble, North Carolina

February 2013

Permit Number: 20-02
MESCO Project Number: G12007.0

Submittal Date: June 3, 2013

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

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

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

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

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

Instructions:

- **Prepare one form for each individually monitored unit.**
- **Please type or print legibly.**
- Attach a notification table with values that attain or exceed NC 2L groundwater standards or NC 2B surface water standards. The notification must include a preliminary analysis of the cause and significance of each value. (e.g. naturally occurring, off-site source, pre-existing condition, etc.).
- Attach a notification table of any groundwater or surface water values that equal or exceed the reporting limits.
- Attach a notification table of any methane gas values that attain or exceed explosive gas levels. This includes any structures on or nearby the facility (NCAC 13B .1629 (4)(a)(i).
- Send the original signed and sealed form, any tables, and Electronic Data Deliverable to: Compliance Unit, NCDENR-DWM, Solid Waste Section, 1646 Mail Service Center, Raleigh, NC 27699-1646.

Solid Waste Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner):

Municipal Engineering Services Company, 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)
Cherokee County Subtitle D Lined MSWLF	10160 US 19 Marble, NC 28905	20-02	.1600	February 20-21, 2013

Environmental Status: (Check all that apply)

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

Type of data submitted: (Check all that apply)

☒ Groundwater monitoring data from monitoring wells
☐ Groundwater monitoring data from private water supply wells
☒ Leachate monitoring data
☒ Surface water monitoring data
☐ Methane gas monitoring data
☐ Corrective action data (specify) _____
☐ Other(specify) _____

Notification attached?

☐ No. No groundwater or surface water standards were exceeded.
☒ Yes, a notification of values exceeding a groundwater or surface water standard is attached. It includes a list of groundwater and surface water monitoring points, dates, analytical values, NC 2L groundwater standard, NC 2B surface water standard or NC Solid Waste GWPS and preliminary analysis of the cause and significance of any concentration.
☐ Yes, a notification of values exceeding an explosive methane gas limit is attached. It includes the methane monitoring points, dates, sample values and explosive methane gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards. I am aware that there are significant penalties for making any false statement, representation, or certification including the possibility of a fine and imprisonment.

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

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

D. Mark Durway 6.3.13

Signature Date

Affix NC Licensed/ Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 0875 GEOLOGIST D. MARK DURWAY

PO Box 97, Garner, NC 27529

Facility Representative Address

C-0281

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

Revised 6/2009

TABLE OF CONTENTS

SECTION

Introduction ..... Page 1
Sampling Procedures ..... Page 1
Field Parameter Data ..... Page 2
Laboratory Results ..... Page 2
Quality Control Samples ..... Page 2
Groundwater Samples ..... Page 3
Surface Water Samples ..... Page 3
Leachate Samples ..... Page 3
Groundwater and Surface Water Characterization ..... Page 3
Findings ..... Page 3
Closing ..... Page 4

FIGURES

Single-Event Potentiometric Map of Uppermost Aquifer Figure1

TABLES

Sampling and Analysis Summary ..... Table 1
Detections in Water Samples above SWSL, GWP, 2L, or 2B (Appendix I) ..... Table 2
Detections in Water Samples above MDL (Appendix II Exclusive) ..... Table 3
Detections in Leachate Samples above SWSL, GWP or 2L ..... Table 4
Hydrogeologic Properties at Monitoring Well Locations ..... Table 5
Field Observations of Monitoring Locations ..... Table 6
Field Parameter Data Summary ..... Table 7

APPENDICIES

Laboratory Analysis Report and Chains of Custody ..... Appendix A
Field Sampling Parameter Data Sheet(s) ..... Appendix B

License No. C-0281

CIVIL/SANITARY/ENVIRONMENTAL ENGINEERS
SOLID WASTE MANAGEMENT

Municipal Services Engineering Company, P.A.

SITE PLANNING/SUBDIVISIONS
SUBSURFACE UTILITY ENGINEERING (SUE)

June 3, 2013

Mr. Ervin Lane
Solid Waste Section
Division of Waste Management
North Carolina Department of Environment and Natural Resources
217 West Jones Street
Raleigh, NC 27603

Re: **Semi-Annual Water Quality Monitoring Report**
Cherokee County Subtitle D Lined MSWLF
Permit No. 20-02
MESCO Project No. G12007.0
Event Date(s): February 20-21, 2013

Dear Mr. Lane:

Introduction

The Cherokee County Subtitle D Lined Municipal Solid Waste Landfill (MSWLF) located in Marble, NC currently operating under permit #20-02, is required to submit semi-annual compliance reports as a condition of the water quality monitoring program. The lined MSWLF is comprised of two contiguous phases (1 & 2) which are treated as a single unit for continuity in this report. Water quality monitoring has been performed semi-annually since prior to commencing operations in 2000. The area downgradient of Phase 1 has been monitored for Appendix II constituents since February 2008 due to elevated volatile organic compound (VOC) detections in MW-6S, MW-6D and MW-7. Municipal Engineering Services Company, P.A. (MESCO) personnel of Garner, NC performed this sampling event on February 20-21, 2013 in accordance with the semi-annual monitoring schedule prescribed by the NC Solid Waste Section (SWS) rules/regulations as promulgated in rule 15A NCAC 13B.1600. Laboratory analytical results indicate that one or two volatile organic compounds (VOCs) in concentrations above the NC 2L Standard continue to persist in samples collected from three wells located within the compliance boundary. The surface water samples collected from the discharge feature remain unimpacted.

As specified in rule 15A NCAC 13B.1632(i) and the SWS Environmental Monitoring Report Form, this report contains sampling procedures, field and laboratory results, groundwater and surface water characterization, and findings. Detections compared to their respective standards tables, a hydrogeologic properties table, a monitoring network field observations table, field parameter data results, potentiometric map, quality assurance/quality control data, and laboratory analytical data results with chain-of-custody (C-O-C) are included.

Sampling Procedure

MESCO personnel performed this sampling event using portable monitoring methodology in accordance with the site-specific approved SAP contained in the *Design Hydrogeologic Study* prepared for Phase 2 dated November 24, 2003. Additionally, samples have been collected semi-annually from temporary locations established downgradient of MW-6S/D and MW-7 as specified in the *Groundwater Contamination Summary Report* approved by the SWS on November 15, 2010.

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

Water samples were collected from nine down/crossgradient groundwater monitoring wells (MW-2, MW-3, MW-4, MW-5, MW-6S, MW-6D, MW-7, MW-8 and MW-9), seven temporary piezometers (P-17, P-18, P-18D, P-19, P-20S, P-20D and P-21), one background well (MW-1), three surface water points (SW-1, SW-2 and SW-4), and a leachate sample (LEACHATE). Quality control measures were implemented including submittal and subsequent quantification of equipment blanks (EB), field blanks (FB) and travel blanks (TB). Additionally, groundwater levels were measured in P-4, P2-5S and P2-5D to better characterize flow directions and gradients. Monitoring locations are shown on the potentiometric map, **Figure 1**.

Function and integrity of wells were visually evaluated with no deficiency identified and inspection documentation is provided in **Table 6.** The depth to water in each well was electronically gaged prior to purging to quantify the static water level elevation. Low-flow pumping methodology or bailing was utilized to adequately purge the wells to a minimum of three times the volume of standing water in the well or until dry. Surface water samples were dipped from the surface of the Valley River at previously designated locations. During well purging and surface water sample collection the required field parameters were recorded. The samples were then placed into laboratory-prepared, pre-preserved containers via a new disposable polyethylene bailer. Samples were collected, kept on ice, and transported to a NC-certified laboratory under proper C-O-C protocols.

Field Parameter Data

Stabilized field parameters were recorded during purging which included pH, specific conductance, temperature, dissolved oxygen (DO), oxidation reduction potential (ORP), total dissolved solids (TDS), turbidity and methane gas in well headspace. A summary of the field parameter data is presented in **Table 7** and the field sampling data sheet is enclosed in **Appendix B**.

Laboratory Results

Pace Analytical Laboratories (PACE) of Huntersville and Asheville, NC performed the laboratory analysis. All locations listed in the SAP were analyzed for Appendix I constituents listed in 40 CFR 258. Samples collected from MW-2, MW-3, MW-5, MW-6S, MW-6D, MW-7, and MW-8 were also analyzed for the few Appendix II exclusive parameters, defined in this report as not also listed on Appendix I, that were detected during the previous August 2012 event. The seven piezometers located downgradient of the wells impacted by VOCs (P-17, P-18, P-18D, P-19, P-20S, P-20D and P-21) were tested for Appendix I list of VOCs. Leachate samples (LAGOON) collected from the lined lagoon were analyzed for the leachate specific list of target constituents. A sampling and analysis table summarizing the locations, constituents, and methods is presented on **Table 1**.

Water samples were reported to the laboratory specific Method Detection Limits (MDL), which are quantifiable at or below the current Solid Waste Section Limits (SWSL). **Table 2** summarizes constituents detected in the water samples in concentrations above the current SWSL, Groundwater Protection Standards (GWP), North Carolina Groundwater Standards (2L) or the North Carolina Surface Water Standards (2B) for the applicable trout water body. **Table 3** summarizes Appendix II exclusive constituents (defined in this report as not also included with Appendix I) detected above the MDL. Laboratory results and C-O-Cs are presented in **Appendix A**.

Quality Control Samples

Total antimony and total zinc were detected in the quality control samples submitted by MESCO as well as the associated laboratory quality control blanks. These constituents were identified as laboratory induced artifact contamination thus the detections in the ground and surface water samples were qualified by the laboratory as high bias. The laboratory indicated they have determined the source of the antimony and zinc detections and have enacted quality control/assurance improvements to minimize future occurrences.

Groundwater Samples

Naturally inherent total cadmium levels were detected in the upgradient background well MW-1 (4 ug/l) above the 2L Standard of 1.75 ug/L. Appendix I aromatic 1,4-dichlorobenzene was detected in cluster wells MW-6S (13.8 ug/L) and MW-6D (10.2 ug/L) in concentrations in exceedance of the 2L Standard (6 ug/L). Benzene was also found in MW-6S (1.9 ug/l) and MW-7 (3.9 ug/l) above the 2L Standard (1.0 ug/l). Daughter chlorinated aliphatic hydrocarbon vinyl chloride was detected in MW-7 (2.1 ug/l) over the 2L Standard (0.03 ug/L). Targeted constituents were not detected in levels above regulatory standards in samples collected from temporary piezometers located along the southern compliance boundary.

Targeted Appendix II exclusive analytes were not detected in concentrations above the SWSL or any established Standards in any of the ground water samples.

Surface Water Samples

Constituents, other than the laboratory induced antimony and zinc, were not detected in any of the surface water samples collected from the Valley River.

Leachate Samples

The leachate sample (LEACHATE) contained quantifiable concentrations of four VOCs (**Table 4**). Detection types and concentrations are low (<5.3 ug/l) which is consistent with previous events.

Groundwater and Surface Water Characterization

MESCO prepared a single-event potentiometric map from groundwater elevations of the uppermost aquifer recorded during this event (**Figure 1**). Groundwater flow rates and directions were calculated and are included on **Table 5**. Groundwater flows in a general southeasterly direction towards the Valley River discharge feature with rates ranging from approximately 6 feet/year (MW-1) to 725 feet/year (MW-5), averaging approximately 144 feet/year. The flow directions and gradients are generally consistent with historical observations. During sample collection, the Valley River was visually observed to be of normal seasonal volume and flow with low turbidity. The Valley River previously flooded on January 16, 2013 in response to five consecutive days of rain. Although it appears that the river crested slightly above P-19, six feet above normal pool (1636.5 ft amsl), the flood event is not believed to have had an affect on the water quality results.

Findings

Appendix I VOC(s) in quantifiable concentrations and in exceedance of the 2L Standards continue to be detected in samples collected from MW-6S, MW-6D and MW-7, which are located within the 250 foot compliance boundary. Concentrations of constituents detected above the 2L Standard remain within their respective historically identified range. The lack of VOC detections in concentrations in excess of applicable standards in samples collected from P-17, P-18, P-18D, P-19, P-20S, P-20D and P-21, located downgradient of the suspected impacted area, continue to support the assertion that the horizontal and vertical extent of VOC migration remains delineated within the compliance boundary. There are no potential downgradient groundwater receptors between the landfill and the Valley River discharge feature. Surface water monitoring results indicate the discharge feature also remains unimpacted.

Closing

The Cherokee County Subtitle D lined MSWLF will continue semi-annual water quality monitoring and is tentatively scheduled to be sampled again in August 2013. Please contact us by phone at (919) 772-5393 or by email at jpfohl@mesco.com or mdurway@mesco.com if you have any questions or comments.

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

Jonathan Pfohl
Environmental Specialist

D. Mark Durway, L.G.
Geologist

NORTH CAROLINA LICENSED SEAL 0875 GEOLOGIST D. MARK DURWAY

Enclosures
cc: Mr. Jeff Clark
Cherokee County

Figures

LEGEND

- EXISTING TOPOGRAPHIC CONTOURS
- PROPERTY LINE
- EXISITING PATH
- FENCE
- LINER/WASTE LIMITS
- APPROXIMATELY 250' FROM LINER LIMITS
- ARCHAEOLOGICAL SITES
- WETLANDS
- U.S. ROUTE
- MW-1 MONITORING WELL LOCATION
- P-17 PIEZOMETER LOCATION
- SW-4 SURFACE WATER SAMPLING LOCATION
- 1700 EQUIPOTENTIAL UPPERMOST GROUNDWATER CONTOURS
- 1708.11 GROUNDWATER ELEVATION
  *NOTE: DEEP WELLS NOT USED FOR CONTOURS

NOTES

1. THE LANDFILL FACILITY IS LOCATED IN A SEISMIC IMPACT ZONE.
2. THE HIGHEST ELEVATION ON THE 100 YEAR FLOOD HAZARD IS APPROXIMATELY 1650'.
3. THE WETLAND SITES WILL BE FLAGGED AND LEFT UNDISTURBED.

Groundwater Elevations
February 20-21, 2013

WELL #	TOP OF PIPE CASING ELEVATION (FT AMSL)	DEPTH TO WATER (FT)	GROUND WATER ELEVATION (FT AMSL)
MW-1	1803.60	97.98	1705.62
MW-2	1691.36	55.94	1635.42
MW-3	1689.41	32.18	1657.23
MW-4	1663.34	16.61	1646.73
MW-5	1638.14	7.01	1631.13
MW-6S	1661.17	14.55	1646.62
MW-6D	1658.12	24.92	1633.20
MW-7	1649.62	18.48	1631.14
MW-8	1642.02	11.44	1630.58
MW-9	1664.88	23.57	1641.31
P2-5S	1780.18	90.18	1690.00
P2-5D	1780.25	108.52	1671.73
P-4	1679.20	3.75	1675.45
P-17	1638.09	10.97	1627.12
P-18	1636.98	9.18	1627.80
P-18D	1637.08	8.73	1628.35
P-19	1636.29	7.87	1628.42
P-20S	1638.61	11.88	1626.73
P-20D	1638.25	11.24	1627.01
P-21	1637.15	10.75	1626.40

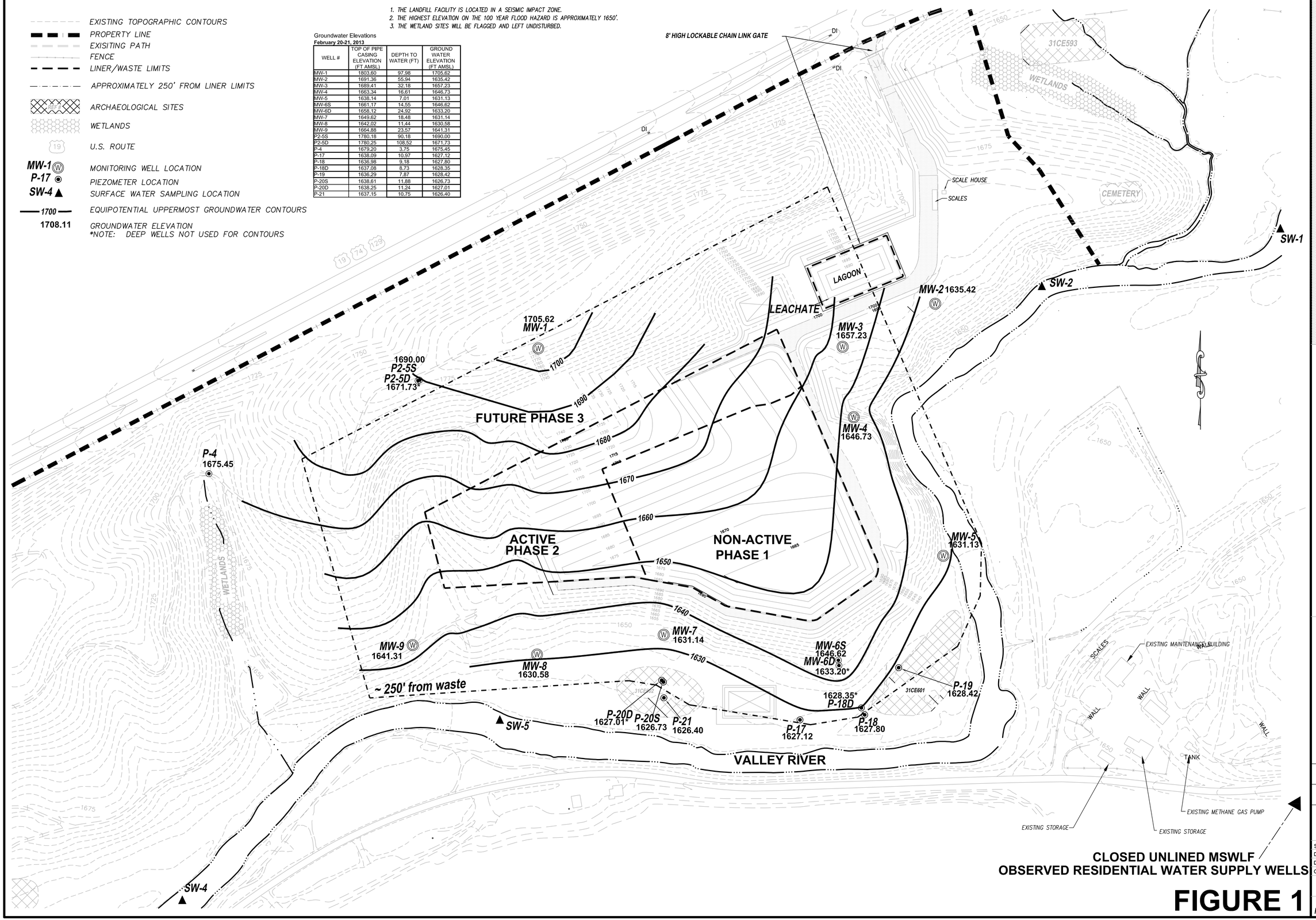

FIGURE 1

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

SUBTITLE D LINED LANDFILL
CHEROKEE COUNTY
NORTH CAROLINA

DATE	BY	REV.	DESCRIPTION

SINGLE EVENT POTENTIOMETRIC MAP
UPPERMOST AQUIFER

SCALE:	1"=100'
DATE:	4/4/13
DRWN. BY:	J. PFOHL
CHKD. BY:	M. DURWAY
PROJECT NUMBER	G11007.0
DRAWING NO.	FIGURE 1
SHEET NO.	1 OF 1

Tables

Table 1
Sampling and Analysis Summary
February 20-21, 2013

		App. I		App. II						Field Parameter								Leachate					
	Reason Not Sampled	VOCs	Total Metals	Total Metals	Bis(2-ethylhexyl)phthalate	Total Cyanide	Mercury	Tin	Sulfide	Dissolved Oxygen (DO)	Oxidation Reduction Potential (ORP)	Temperature	Conductivity	Total Dissolved Solids (TDS)	pH	Turbidity	Methane Gas in Well Headspace	Sulfate	pH	Phosphorus	BOD, 5 day	COD	Nitrate
		Lab EPA 8260B	Lab EPA 6000/7000	Lab EPA 6000/7000	Lab EPA 8270D	Lab SM4500-CN/E	Lab EPA 7470	Lab EPA 6010	Lab SM18 4500-S D	Field Meter	Field Meter	Field Meter	Field Meter	Field Meter	Field Meter	Field Visual	Field Meter (GEM 2000)	Lab EPA 300.0	Lab SM 4500-H/B	Lab EPA365.4	Lab SM 5210B	Lab SM 5220D	Lab EPA 353.2
MW-1		x	x							x	x	x	x	x	x	x	x						
MW-2		x	x						x	x	x	x	x	x	x	x	x						
MW-3		x	x			x				x	x	x	x	x	x	x							
MW-4		x	x							x	x	x	x	x	x	x							
MW-5		x	x		x					x	x	x	x	x	x	x							
MW-6S		x	x				x			x	x	x	x	x	x	x	x						
MW-6D		x	x						x	x	x	x	x	x	x	x	x						
MW-7		x	x			x			x	x	x	x	x	x	x	x	x						
MW-8		x	x						x	x	x	x	x	x	x	x							
MW-9		x	x							x	x	x	x	x	x	x							
P-17		x								x	x	x	x	x	x	x	x						
P-18		x								x	x	x	x	x	x	x	x						
P-18D		x								x	x	x	x	x	x	x							
P-19		x								x	x	x	x	x	x	x							
P-20S		x								x	x	x	x	x	x	x	x						
P-20D		x								x	x	x	x	x	x	x							
P-21		x								x	x	x	x	x	x	x							
LEACHATE		x		x														x	x	x	x	x	x
SW-1		x	x							x	x	x	x	x	x	x							
SW-2		x	x							x	x	x	x	x	x	x							
SW-4		x	x							x	x	x	x	x	x	x							
SW-5		x	x							x	x	x	x	x	x	x							
EB		x		x																			
TB		x		x																			
FB		x																					

App I & II = List from current 40 CFR 258

Table 2
Detections in Water Samples Above SWSL, GWP, 2L, or 2B (Appendix I)
February 20-21, 2013

Well ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [2]	SWSL [3]	2L [4]	2B [5]	GWP [6]	Exceedance	Preliminary Cause [7]
MW-1	**Cadmium, total**	**2/20/13**	**4**	**ug/L**	**1**	**1**	**2**			**2**	**N**
MW-1	Zinc, total	2/20/13	47.9 B	ug/L	10	10	1000				
MW-1	Copper, total	2/20/13	22.7	ug/L	5	10	1000				
MW-2	Antimony, total	2/20/13	5.4 j B	ug/L	5	6			1.4	4	
MW-2	Zinc, total	2/20/13	53.7 B	ug/L	10	10	1000				
MW-3	Antimony, total	2/20/13	5.2 j B	ug/L	5	6			1.4	3.8	
MW-3	Zinc, total	2/20/13	78 B	ug/L	10	10	1000				
MW-4	Zinc, total	2/20/13	38.2 B	ug/L	10	10	1000				
MW-5	Zinc, total	2/20/13	118 B	ug/L	10	10	1000				
MW-6D	**1,4-Dichlorobenzene**	**2/21/13**	**10.2**	**ug/L**	**0.33**	**1**	**6**			**4.2**	**L &/or LFG**
MW-6D	Zinc, total	2/21/13	23.8 B	ug/L	10	10	1000				
MW-6D	cis-1,2-Dichloroethene	2/21/13	9.6	ug/L	0.19	5	70				
MW-6S	**Benzene**	**2/21/13**	**1.9**	**ug/L**	**0.25**	**1**	**1**			**0.9**	**L &/or LFG**
MW-6S	**1,4-Dichlorobenzene**	**2/21/13**	**13.8**	**ug/L**	**0.33**	**1**	**6**			**7.8**	**L &/or LFG**
MW-6S	Zinc, total	2/21/13	27.3 B	ug/L	10	10	1000				
MW-6S	Cobalt, total	2/21/13	29.1	ug/L	5	10			70		
MW-6S	cis-1,2-Dichloroethene	2/21/13	6.1	ug/L	0.19	5	70				
MW-6S	Barium, total	2/21/13	141	ug/L	5	100	700				
MW-7	Cadmium, total	2/21/13	2	ug/L	1	1	2				
MW-7	**Vinyl chloride**	**2/21/13**	**2.1**	**ug/L**	**0.62**	**1**	**0.03**			**2.07**	**L &/or LFG**
MW-7	**Benzene**	**2/21/13**	**3.9**	**ug/L**	**0.25**	**1**	**1**			**2.9**	**L &/or LFG**
MW-7	Sulfide	2/21/13	184	ug/L	100	1000					
MW-7	Cobalt, total	2/21/13	32.3	ug/L	5	10			70		
MW-7	Copper, total	2/21/13	21.6	ug/L	5	10	1000				
MW-7	cis-1,2-Dichloroethene	2/21/13	31.4	ug/L	0.19	5	70				
MW-7	Zinc, total	2/21/13	23.5 B	ug/L	10	10	1000				
MW-8	Zinc, total	2/20/13	28.1 B	ug/L	10	10	1000				
MW-9	Antimony, total	2/20/13	5.2 j B	ug/L	5	6			1.4	3.8	
MW-9	Zinc, total	2/20/13	47.9 B	ug/L	10	10	1000				
P-20S	cis-1,2-Dichloroethene	2/20/13	13.4	ug/L	0.19	5	70				

Well ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [2]	SWSL [3]	2L [4]	2B [5]	GWP [6]	Exceedance	Preliminary Cause [7]
SW-1	Antimony, total	2/20/13	6.8 B	ug/L	5	6		640			
SW-1	Zinc, total	2/20/13	30 B	ug/L	10	10		50			
SW-2	Antimony, total	2/20/13	5.1 j B	ug/L	5	6		640			
SW-2	Zinc, total	2/20/13	25.8 B	ug/L	10	10		50			
SW-4	Zinc, total	2/20/13	27.2 B	ug/L	10	10		50			
SW-5	Antimony, total	2/20/13	5.7 j B	ug/L	5	6		640			
SW-5	Zinc, total	2/20/13	40 B	ug/L	10	10		50			
EB	Zinc, total	2/20/13	70.2 B	ug/L	10	10	1000				
EB	Antimony, total	2/20/13	5.8 j B	ug/L	5	6			1.4	4.4	
FB	Zinc, total	2/20/13	19.6 B	ug/L	10	10	1000				

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

[2] MDL = Method Detection Limit

[3] SWSL = Solid Waste Section Reporting Limit

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

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

[6] GWP = Groundwater Protection Standard

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

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

B = Laboratory flagged as artifact contamination so results high bias (Also detected in associated method blanks)

N = Natural (Erosion of Natural Deposits)

L = Leachate

LFG = Landfill Gas

BOLD = Concentration > 2L, or 2B Standard

Table 3
Detections in Water Samples Above MDL (Appendix II Exclusive)
February 20-21, 2013

Well ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [2]	SWSL [3]	2L [4]	GWP [5]	Exceedance	Preliminary Cause [7]
MW-7	Cyanide, total	2/21/13	5.2 j	ug/L	5	10	70			

[1] Table contains only App II exclusive constituents detections

[2] MDL = Method Detection Limit

[3] SWSL = Solid Waste Section Reporting Limit

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

[5] GWP = Groundwater Protection Standard

[7] Preliminary Cause = Refers to a preliminary analysis of the cause and/or source of a detection over the respective 2L/2B Standard.

A definitive source of the detection was not determined as part of this report.

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

BOLD = Concentration > 2L, or 2B Standard

Table 4
Detections in Leachate Samples Above SWSL, GWP, or 2L
February 21, 2013

Sample ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [2]	SWSL [3]	2L [4]	GWP [5]	Exceedance Amount
LEACHATE	**Benzene**	**2/21/13**	**4.9**	**ug/L**	**0.25**	**1**	**1**		**3.9**
LEACHATE	Chlorobenzene	2/21/13	5.3	ug/L	0.23	3	50		
LEACHATE	1,4-Dichlorobenzene	2/21/13	4	ug/L	0.33	1	6		
LEACHATE	Ethylbenzene	2/21/13	1.1	ug/L	0.3	1	550		
LEACHATE	Barium, total	2/21/13	401	ug/L	5	100	700		
LEACHATE	Zinc, total	2/21/13	26.3	ug/L	10	10	1050		
LEACHATE	COD	2/21/13	114000	ug/L	25000	NE	NE	NE	
LEACHATE	BOD, 5 day	2/21/13	10200	ug/L	2000	NE	NE	NE	
LEACHATE	Phosphorus	2/21/13	79.5	ug/L	50	NE	NE	NE	

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

[2] MDL = Method Detection Limit

[3] SWSL = Solid Waste Section Reporting Limit

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

[5] GWP = Groundwater Protection Standard

NE = Not Established

BOLD = Concentration > 2L Standard

Table 5
Hydrologic Properties at Monitoring Well Locations
February 20-21, 2013

Monitoring Well	Hydraulic Conductivity (cm/sec)	Effective Porosity (%)	Hydraulic Gradient (ft/ft)	Flow Rate (ft/yr)	Flow Direction	Depth to Water (ft)	Groundwater Elevation (ft amsl)	Screened Interval Lithology
MW-1	3.04E-06	5	0.10	6	S11E	97.98	1705.62	Clayey Silt
MW-2	1.97E-04	16	0.13	162	S73E	55.94	1635.42	PWR
MW-3	1.18E-04	10	0.08	94	S72E	32.18	1657.23	Silt
MW-4	1.71E-04	16	0.11	117	S80E	16.61	1646.73	Sandy Silt
MW-5	1.66E-03	15	0.06	725	S73E	7.01	1631.13	Silty Sand
MW-6S	4.15E-05	15	0.14	41	S25E	14.55	1646.62	Gneiss
MW-7	5.80E-05	16	0.03	13	S05W	18.48	1631.14	Sandy Silt
MW-8	1.27E-04	14	0.05	48	S05E	11.44	1630.58	PWR
MW-9	2.84E-04	14	0.04	88	S37E	23.57	1641.31	Silt
Minimum	3.04E-06	5	0.03	6	-	7.01	1630.58	-
Average	2.96E-04	13	0.08	144	-	30.86	1647.31	-
Maximum	1.66E-03	16	0.14	725	-	97.98	1705.62	-

NOTE: Effective Porosity value for MW-5 & MW-6S obtained from table in Applied Hydrogeology of Fractured Rocks, Singhal & Gupta (1999).
Effective porosity values derived from the Design Hydrogeologic Studies for the Cherokee Co. Subtitle D MSWLF, except for MW-5 and MW-6S.
Hydraulic Conductivities were derived from slug tests performed by Municipal Engineering Services.
Wells screened in deeper aquifer were not utilized for flow directions/gradients.
Hydrologic Gradient calculated from water levels measured on February 20-21, 2013.
Flow rate (Q) is defined by modified Darc's equation:

where

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

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

Table 6
Field Observations of Monitoring Locations
February 20-21, 2013

Monitoring Location	Viable Monitoring Location	Lack of Any Evidence of Tampering	Locked	Hinge/Hasp Operational	Tagged or Labeled	Concrete Surface Pad Effective	Comments
MW-1	Yes	Yes	Yes	Yes	Yes	Yes	
MW-2	Yes	Yes	Yes	Yes	Yes	Yes	
MW-3	Yes	Yes	Yes	Yes	Yes	Yes	
MW-4	Yes	Yes	Yes	Yes	Yes	Yes	
MW-5	Yes	Yes	Yes	Yes	Yes	Yes	
MW-6S	Yes	Yes	Yes	Yes	Yes	Yes	Methane gas detected in headspace
MW-6D	Yes	Yes	Yes	Yes	Yes	Yes	
MW-7	Yes	Yes	Yes	Yes	Yes	Yes	
MW-8	Yes	Yes	Yes	Yes	Yes	Yes	
MW-9	Yes	Yes	Yes	Yes	Yes	Yes	
P-17	Yes	Yes	Yes	Yes	Yes	Yes	Fast Recharge
P-18	Yes	Yes	Yes	Yes	Yes	Yes	
P-18D	Yes	Yes	Yes	Yes	Yes	Yes	Slow Recharge
P-19	Yes	Yes	Yes	Yes	Yes	Yes	Flood waters may have breached top of casing
P-20S	Yes	Yes	Yes	Yes	Yes	Yes	
P-20D	Yes	Yes	Yes	Yes	Yes	Yes	Slow Recharge
P-21	Yes	Yes	Yes	Yes	Yes	Yes	
P-4	Yes	Yes	Yes	Yes	Yes	Yes	Water Level Reading Only
P2-5S	Yes	Yes	Yes	Yes	Yes	Yes	Water Level Reading Only
P2-5D	Yes	Yes	Yes	Yes	Yes	Yes	Water Level Reading Only
SW-1	Yes	-	-	-	-	-	Normal seasonal volume and flow
SW-2	Yes	-	-	-	-	-	Normal seasonal volume and flow
SW-4	Yes	-	-	-	-	-	Normal seasonal volume and flow
SW-5	Yes	-	-	-	-	-	Normal seasonal volume and flow

Any unusual field conditions, observations, or events:
Valley River flooded peaked on 1/16/13 6.12' in response to five consecutive days of rain.

Table 7
Field Parameter Data Summary
February 20-21, 2013

	Depth to Water	Water Elevation	TOC Elevation	Temp.	ORP	DO	pH	Specific Conductance	TDS	Turbidity of Metal Sample	Methane Gas In Well Headspace
Units	**ft (btoc)**	**ft (amsl)**	**ft (amsl)**	**C**	**mV**	**mg/L**	**SU**	**umhos/cm**	**mg/L**	**Visual**	**%/Vol.**
MW-1	97.98	1705.62	1803.60	14.1	186	3.3	5.88	0	0	Slight	0
MW-2	55.94	1635.42	1691.36	14.6	191	2.8	6.13	20	10	Moderate	0
MW-3	32.18	1657.23	1689.41	14.8	212	2.3	5.87	30	10	Slight	NR
MW-4	16.61	1646.73	1663.34	14.0	193	0.9	6.19	0	0	Slight	NR
MW-5	7.01	1631.13	1638.14	14.5	19	2.1	6.53	70	30	Clear	NR
MW-6S	14.55	1646.62	1661.17	16.3	-50	0.2	6.28	610	300	Clear	27
MW-6D	24.92	1633.20	1658.12	16.2	-42	0.9	6.38	800	390	Clear	0
MW-7	18.48	1631.14	1649.62	15.1	-15	1.3	6.13	410	200	Slight	0
MW-8	11.44	1630.58	1642.02	15.4	203	1.4	6.17	60	20	Slight	NR
MW-9	23.57	1641.31	1664.88	14.7	162	3.3	5.47	0	0	Clear	NR
P-17	10.97	1627.12	1638.09	13.2	203	0.9	5.61	110	50	Clear	0
P-18	9.18	1627.80	1636.98	12.9	19	1.0	7.01	60	20	Clear	0
P-18D	8.73	1628.35	1637.08	13.5	121	0.9	7.35	290	150	Clear	NR
P-19	7.87	1628.42	1636.29	12.3	34	0.9	5.99	200	100	Clear	NR
P-20S	11.88	1626.73	1638.61	15.3	138	0.4	6.13	200	100	Slight	0
P-20D	11.24	1627.01	1638.25	15.4	119	0.8	9.21	180	80	Clear	NR
P-21	10.75	1626.40	1637.15	13.0	224	3.6	5.53	90	40	Moderate	NR
P-4	3.75	1675.45	1679.20	NR	NR	NR	NR	NR	NR	NR	NR
P2-5S	90.18	1690.00	1780.18	NR	NR	NR	NR	NR	NR	NR	NR
P2-5D	108.52	1671.73	1780.25	NR	NR	NR	NR	NR	NR	NR	NR
Minimum	3.75	1626.40	1636.29	12.3	-50	0.2	5.47	0	0	Clear	0
Average	28.79	1644.40	1673.19	14.4	113	1.6	6.34	184	88	Slight	-
Maximum	108.52	1705.62	1803.60	16.3	224	3.6	9.21	800	390	Moderate	27
SW-1	NR	NR	NR	6.3	181	8.8	7.43	10	0	Clear	-
SW-2	NR	NR	NR	6.1	193	8.9	7.34	0	0	Clear	-
SW-4	NR	NR	NR	6.5	173	9.1	7.41	20	10	Clear	-
SW-5	NR	NR	NR	6.8	183	8.7	7.35	0	0	Clear	-
Minimum	-	-	-	6.1	173	8.7	7.34	0	0	Clear	-
Average	-	-	-	6.4	183	8.9	7.38	8	3	Clear	-
Maximum	-	-	-	6.8	193	9.1	7.43	20	10	Clear	-

NR = No Reading Attempted

Appendix A
Laboratory Analysis Reports
Chains of Custody

Pace Analytical Services, Inc.
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Pace Analytical Services, Inc.
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Huntersville, NC 28078
(704)875-9092

March 13, 2013

Mr. Jonathan Pfohl
Municipal Engineering Services
PO Box 97
Garner, NC 27529

RE: Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Dear Mr. Pfohl:
Enclosed are the analytical results for sample(s) received by the laboratory on February 21, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

It has been determined that a specific lot number of EPA 6010/3030C prep filters were received from the manufacturer contaminated with Zinc and Antimony. The results for these elements are bias high

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

Sincerely,

Kevin Godwin

kevin.godwin@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

Asheville Certification IDs
2225 Riverside Dr., Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

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SAMPLE SUMMARY

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92148938001	**MW-1**	Water	02/20/13 08:00	02/21/13 12:04
92148938002	**MW-4**	Water	02/20/13 16:20	02/21/13 12:04
92148938003	**MW-9**	Water	02/20/13 14:10	02/21/13 12:04
92148938004	**P-17**	Water	02/20/13 09:35	02/21/13 12:04
92148938005	**P-18**	Water	02/20/13 10:05	02/21/13 12:04
92148938006	**P-18D**	Water	02/20/13 13:30	02/21/13 12:04
92148938007	**P-19**	Water	02/20/13 09:00	02/21/13 12:04
92148938008	**P-20S**	Water	02/20/13 11:50	02/21/13 12:04
92148938009	**P-20D**	Water	02/20/13 11:00	02/21/13 12:04
92148938010	**P-21**	Water	02/20/13 08:30	02/21/13 12:04
92148938011	**MW-2**	Water	02/20/13 17:40	02/21/13 12:04
92148938012	**MW-6D**	Water	02/21/13 08:35	02/21/13 12:04
92148938013	**MW-8**	Water	02/20/13 14:50	02/21/13 12:04
92148938014	**MW-7**	Water	02/21/13 08:00	02/21/13 12:04
92148938015	**MW-3**	Water	02/20/13 17:00	02/21/13 12:04
92148938016	**MW-5**	Water	02/20/13 15:30	02/21/13 12:04
92148938017	**MW-6S**	Water	02/21/13 09:15	02/21/13 12:04
92148938018	**LEACHATE**	Water	02/21/13 10:00	02/21/13 12:04

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SAMPLE ANALYTE COUNT

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92148938001	**MW-1**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	52	PASI-C
92148938002	**MW-4**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	52	PASI-C
92148938003	**MW-9**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	52	PASI-C
92148938004	**P-17**	EPA 8260	MCK	52	PASI-C
92148938005	**P-18**	EPA 8260	MCK	52	PASI-C
92148938006	**P-18D**	EPA 8260	MCK	52	PASI-C
92148938007	**P-19**	EPA 8260	MCK	52	PASI-C
92148938008	**P-20S**	EPA 8260	MCK	52	PASI-C
92148938009	**P-20D**	EPA 8260	MCK	52	PASI-C
92148938010	**P-21**	EPA 8260	MCK	52	PASI-C
92148938011	**MW-2**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	52	PASI-C
92148938012	**MW-6D**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	52	PASI-C
		SM 4500-S2D	AES	1	PASI-A
92148938013	**MW-8**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	52	PASI-C
		SM 4500-S2D	AES	1	PASI-A
92148938014	**MW-7**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	52	PASI-C
		SM 4500-S2D	AES	1	PASI-A
		SM 4500-CN-E	EWS	1	PASI-A
92148938015	**MW-3**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	52	PASI-C
		SM 4500-CN-E	EWS	1	PASI-A
92148938016	**MW-5**	EPA 6010	JMW	15	PASI-A
		EPA 8270	RES	7	PASI-C
		EPA 8260	MCK	52	PASI-C
92148938017	**MW-6S**	EPA 6010	JMW	15	PASI-A
		EPA 7470	DMB	1	PASI-A
		EPA 8260	MCK	52	PASI-C
92148938018	**LEACHATE**	EPA 6010	JMW	16	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8260	MCK	52	PASI-C

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SAMPLE ANALYTE COUNT

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 5210B	AES	1	PASI-A
		EPA 9040	KCS	1	PASI-A
		EPA 300.0	AES	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		EPA 365.1	EWS	1	PASI-A
		SM 4500-CN-E	EWS	1	PASI-A
		SM 5220D	EWS	1	PASI-A

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: MW-1 **Lab ID: 92148938001** Collected: 02/20/13 08:00 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, 3030C	Analytical Method: EPA 6010 Preparation Method: SM 3030C								
Antimony	ND	ug/L	6.0	5.0	1	02/22/13 19:35	02/24/13 18:01	7440-36-0	B
Arsenic	ND	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:01	7440-38-2	
Barium	**12.2J**	ug/L	100	5.0	1	02/22/13 19:35	02/24/13 18:01	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	02/22/13 19:35	02/24/13 18:01	7440-41-7	
Cadmium	**4.0**	ug/L	1.0	1.0	1	02/22/13 19:35	02/24/13 18:01	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:01	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:01	7440-48-4	
Copper	**22.7**	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:01	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:01	7439-92-1	
Nickel	**14.5J**	ug/L	50.0	5.0	1	02/22/13 19:35	02/24/13 18:01	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:01	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:01	7440-22-4	
Thallium	ND	ug/L	5.5	5.5	1	02/22/13 19:35	02/24/13 18:01	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	02/22/13 19:35	02/24/13 18:01	7440-62-2	
Zinc	**47.9**	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:01	7440-66-6	B
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/22/13 22:59	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/22/13 22:59	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/22/13 22:59	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/22/13 22:59	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/22/13 22:59	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/22/13 22:59	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/22/13 22:59	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/22/13 22:59	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/22/13 22:59	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/22/13 22:59	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/22/13 22:59	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/22/13 22:59	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/22/13 22:59	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/22/13 22:59	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/22/13 22:59	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/22/13 22:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/22/13 22:59	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/22/13 22:59	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/22/13 22:59	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/22/13 22:59	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/22/13 22:59	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/22/13 22:59	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/22/13 22:59	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/22/13 22:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/22/13 22:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/22/13 22:59	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/22/13 22:59	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/22/13 22:59	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/22/13 22:59	10061-01-5	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: MW-1 **Lab ID: 92148938001** Collected: 02/20/13 08:00 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/22/13 22:59	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/22/13 22:59	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/22/13 22:59	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/22/13 22:59	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/22/13 22:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/22/13 22:59	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/22/13 22:59	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/22/13 22:59	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/22/13 22:59	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/22/13 22:59	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/22/13 22:59	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/22/13 22:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/22/13 22:59	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/22/13 22:59	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/22/13 22:59	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/22/13 22:59	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/22/13 22:59	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/22/13 22:59	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/22/13 22:59	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		02/22/13 22:59	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		02/22/13 22:59	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		02/22/13 22:59	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		02/22/13 22:59	2037-26-5	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: MW-4 **Lab ID: 92148938002** Collected: 02/20/13 16:20 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, 3030C	Analytical Method: EPA 6010 Preparation Method: SM 3030C								
Antimony	ND	ug/L	6.0	5.0	1	02/22/13 19:35	02/24/13 18:04	7440-36-0	B
Arsenic	ND	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:04	7440-38-2	
Barium	**13.7J**	ug/L	100	5.0	1	02/22/13 19:35	02/24/13 18:04	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	02/22/13 19:35	02/24/13 18:04	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	02/22/13 19:35	02/24/13 18:04	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:04	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:04	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:04	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:04	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	02/22/13 19:35	02/24/13 18:04	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:04	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:04	7440-22-4	
Thallium	ND	ug/L	5.5	5.5	1	02/22/13 19:35	02/24/13 18:04	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	02/22/13 19:35	02/24/13 18:04	7440-62-2	
Zinc	**38.2**	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:04	7440-66-6	B
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/22/13 23:14	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/22/13 23:14	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/22/13 23:14	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/22/13 23:14	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/22/13 23:14	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/22/13 23:14	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/22/13 23:14	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/22/13 23:14	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/22/13 23:14	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/22/13 23:14	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/22/13 23:14	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/22/13 23:14	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/22/13 23:14	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/22/13 23:14	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/22/13 23:14	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/22/13 23:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/22/13 23:14	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/22/13 23:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/22/13 23:14	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/22/13 23:14	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/22/13 23:14	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/22/13 23:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/22/13 23:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/22/13 23:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/22/13 23:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/22/13 23:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/22/13 23:14	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/22/13 23:14	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/22/13 23:14	10061-01-5	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: MW-4 **Lab ID: 92148938002** Collected: 02/20/13 16:20 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/22/13 23:14	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/22/13 23:14	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/22/13 23:14	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/22/13 23:14	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/22/13 23:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/22/13 23:14	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/22/13 23:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/22/13 23:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/22/13 23:14	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/22/13 23:14	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/22/13 23:14	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/22/13 23:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/22/13 23:14	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/22/13 23:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/22/13 23:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/22/13 23:14	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/22/13 23:14	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/22/13 23:14	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/22/13 23:14	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		02/22/13 23:14	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		02/22/13 23:14	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		02/22/13 23:14	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		02/22/13 23:14	2037-26-5	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: MW-9 **Lab ID: 92148938003** Collected: 02/20/13 14:10 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, 3030C	Analytical Method: EPA 6010 Preparation Method: SM 3030C								
Antimony	**5.2J**	ug/L	6.0	5.0	1	02/22/13 19:35	02/24/13 18:07	7440-36-0	B
Arsenic	ND	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:07	7440-38-2	
Barium	**17.6J**	ug/L	100	5.0	1	02/22/13 19:35	02/24/13 18:07	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	02/22/13 19:35	02/24/13 18:07	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	02/22/13 19:35	02/24/13 18:07	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:07	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:07	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:07	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:07	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	02/22/13 19:35	02/24/13 18:07	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:07	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:07	7440-22-4	
Thallium	ND	ug/L	5.5	5.5	1	02/22/13 19:35	02/24/13 18:07	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	02/22/13 19:35	02/24/13 18:07	7440-62-2	
Zinc	**47.9**	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:07	7440-66-6	B
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/22/13 23:30	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/22/13 23:30	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/22/13 23:30	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/22/13 23:30	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/22/13 23:30	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/22/13 23:30	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/22/13 23:30	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/22/13 23:30	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/22/13 23:30	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/22/13 23:30	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/22/13 23:30	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/22/13 23:30	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/22/13 23:30	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/22/13 23:30	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/22/13 23:30	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/22/13 23:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/22/13 23:30	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/22/13 23:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/22/13 23:30	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/22/13 23:30	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/22/13 23:30	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/22/13 23:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/22/13 23:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/22/13 23:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/22/13 23:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/22/13 23:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/22/13 23:30	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/22/13 23:30	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/22/13 23:30	10061-01-5	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: MW-9 **Lab ID: 92148938003** Collected: 02/20/13 14:10 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/22/13 23:30	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/22/13 23:30	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/22/13 23:30	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/22/13 23:30	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/22/13 23:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/22/13 23:30	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/22/13 23:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/22/13 23:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/22/13 23:30	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/22/13 23:30	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/22/13 23:30	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/22/13 23:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/22/13 23:30	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/22/13 23:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/22/13 23:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/22/13 23:30	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/22/13 23:30	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/22/13 23:30	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/22/13 23:30	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130		1		02/22/13 23:30	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		02/22/13 23:30	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		02/22/13 23:30	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		02/22/13 23:30	2037-26-5	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: P-17 **Lab ID: 92148938004** Collected: 02/20/13 09:35 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/22/13 23:46	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/22/13 23:46	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/22/13 23:46	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/22/13 23:46	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/22/13 23:46	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/22/13 23:46	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/22/13 23:46	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/22/13 23:46	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/22/13 23:46	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/22/13 23:46	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/22/13 23:46	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/22/13 23:46	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/22/13 23:46	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/22/13 23:46	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/22/13 23:46	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/22/13 23:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/22/13 23:46	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/22/13 23:46	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/22/13 23:46	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/22/13 23:46	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/22/13 23:46	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/22/13 23:46	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/22/13 23:46	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/22/13 23:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/22/13 23:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/22/13 23:46	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/22/13 23:46	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/22/13 23:46	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/22/13 23:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/22/13 23:46	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/22/13 23:46	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/22/13 23:46	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/22/13 23:46	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/22/13 23:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/22/13 23:46	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/22/13 23:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/22/13 23:46	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/22/13 23:46	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/22/13 23:46	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/22/13 23:46	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/22/13 23:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/22/13 23:46	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/22/13 23:46	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/22/13 23:46	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/22/13 23:46	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/22/13 23:46	108-05-4	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: P-17 **Lab ID: 92148938004** Collected: 02/20/13 09:35 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/22/13 23:46	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/22/13 23:46	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		02/22/13 23:46	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		02/22/13 23:46	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		02/22/13 23:46	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		02/22/13 23:46	2037-26-5	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: P-18 **Lab ID: 92148938005** Collected: 02/20/13 10:05 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/23/13 00:02	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/23/13 00:02	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/23/13 00:02	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/23/13 00:02	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/23/13 00:02	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/23/13 00:02	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/23/13 00:02	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/23/13 00:02	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/23/13 00:02	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/23/13 00:02	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/23/13 00:02	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/23/13 00:02	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/23/13 00:02	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/23/13 00:02	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/23/13 00:02	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/23/13 00:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/23/13 00:02	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/23/13 00:02	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/23/13 00:02	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/23/13 00:02	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/23/13 00:02	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/23/13 00:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/23/13 00:02	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/23/13 00:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/23/13 00:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/23/13 00:02	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/23/13 00:02	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/23/13 00:02	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/23/13 00:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/23/13 00:02	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/23/13 00:02	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/23/13 00:02	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/23/13 00:02	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/23/13 00:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/23/13 00:02	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/23/13 00:02	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/23/13 00:02	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/23/13 00:02	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/23/13 00:02	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/23/13 00:02	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/23/13 00:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/23/13 00:02	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/23/13 00:02	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/23/13 00:02	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/23/13 00:02	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/23/13 00:02	108-05-4	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: P-18 **Lab ID: 92148938005** Collected: 02/20/13 10:05 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/23/13 00:02	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/23/13 00:02	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		02/23/13 00:02	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		02/23/13 00:02	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		02/23/13 00:02	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		02/23/13 00:02	2037-26-5	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: P-18D **Lab ID: 92148938006** Collected: 02/20/13 13:30 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/23/13 00:18	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/23/13 00:18	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/23/13 00:18	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/23/13 00:18	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/23/13 00:18	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/23/13 00:18	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/23/13 00:18	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/23/13 00:18	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/23/13 00:18	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/23/13 00:18	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/23/13 00:18	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/23/13 00:18	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/23/13 00:18	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/23/13 00:18	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/23/13 00:18	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/23/13 00:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/23/13 00:18	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/23/13 00:18	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/23/13 00:18	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/23/13 00:18	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/23/13 00:18	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/23/13 00:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/23/13 00:18	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/23/13 00:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/23/13 00:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/23/13 00:18	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/23/13 00:18	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/23/13 00:18	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/23/13 00:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/23/13 00:18	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/23/13 00:18	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/23/13 00:18	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/23/13 00:18	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/23/13 00:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/23/13 00:18	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/23/13 00:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/23/13 00:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/23/13 00:18	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/23/13 00:18	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/23/13 00:18	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/23/13 00:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/23/13 00:18	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/23/13 00:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/23/13 00:18	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/23/13 00:18	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/23/13 00:18	108-05-4	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: P-18D **Lab ID: 92148938006** Collected: 02/20/13 13:30 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/23/13 00:18	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/23/13 00:18	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		02/23/13 00:18	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		02/23/13 00:18	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		02/23/13 00:18	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		02/23/13 00:18	2037-26-5	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: P-19 **Lab ID: 92148938007** Collected: 02/20/13 09:00 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/23/13 00:34	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/23/13 00:34	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/23/13 00:34	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/23/13 00:34	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/23/13 00:34	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/23/13 00:34	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/23/13 00:34	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/23/13 00:34	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/23/13 00:34	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/23/13 00:34	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/23/13 00:34	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/23/13 00:34	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/23/13 00:34	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/23/13 00:34	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/23/13 00:34	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/23/13 00:34	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/23/13 00:34	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/23/13 00:34	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/23/13 00:34	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/23/13 00:34	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/23/13 00:34	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/23/13 00:34	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/23/13 00:34	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/23/13 00:34	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/23/13 00:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/23/13 00:34	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/23/13 00:34	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/23/13 00:34	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/23/13 00:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/23/13 00:34	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/23/13 00:34	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/23/13 00:34	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/23/13 00:34	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/23/13 00:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/23/13 00:34	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/23/13 00:34	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/23/13 00:34	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/23/13 00:34	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/23/13 00:34	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/23/13 00:34	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/23/13 00:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/23/13 00:34	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/23/13 00:34	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/23/13 00:34	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/23/13 00:34	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/23/13 00:34	108-05-4	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: P-19 **Lab ID: 92148938007** Collected: 02/20/13 09:00 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/23/13 00:34	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/23/13 00:34	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		02/23/13 00:34	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		02/23/13 00:34	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		02/23/13 00:34	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		02/23/13 00:34	2037-26-5	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: P-20S **Lab ID: 92148938008** Collected: 02/20/13 11:50 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/23/13 00:50	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/23/13 00:50	107-13-1	
Benzene	**0.74J**	ug/L	1.0	0.25	1		02/23/13 00:50	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/23/13 00:50	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/23/13 00:50	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/23/13 00:50	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/23/13 00:50	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/23/13 00:50	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/23/13 00:50	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/23/13 00:50	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/23/13 00:50	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/23/13 00:50	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/23/13 00:50	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/23/13 00:50	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/23/13 00:50	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/23/13 00:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/23/13 00:50	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/23/13 00:50	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/23/13 00:50	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/23/13 00:50	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/23/13 00:50	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/23/13 00:50	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/23/13 00:50	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/23/13 00:50	75-35-4	
cis-1,2-Dichloroethene	**13.4**	ug/L	5.0	0.19	1		02/23/13 00:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/23/13 00:50	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/23/13 00:50	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/23/13 00:50	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/23/13 00:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/23/13 00:50	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/23/13 00:50	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/23/13 00:50	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/23/13 00:50	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/23/13 00:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/23/13 00:50	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/23/13 00:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/23/13 00:50	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/23/13 00:50	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/23/13 00:50	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/23/13 00:50	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/23/13 00:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/23/13 00:50	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/23/13 00:50	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/23/13 00:50	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/23/13 00:50	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/23/13 00:50	108-05-4	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: P-20S **Lab ID: 92148938008** Collected: 02/20/13 11:50 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/23/13 00:50	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/23/13 00:50	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		02/23/13 00:50	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		02/23/13 00:50	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		02/23/13 00:50	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		02/23/13 00:50	2037-26-5	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: P-20D **Lab ID: 92148938009** Collected: 02/20/13 11:00 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/23/13 01:06	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/23/13 01:06	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/23/13 01:06	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/23/13 01:06	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/23/13 01:06	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/23/13 01:06	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/23/13 01:06	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/23/13 01:06	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/23/13 01:06	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/23/13 01:06	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/23/13 01:06	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/23/13 01:06	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/23/13 01:06	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/23/13 01:06	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/23/13 01:06	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/23/13 01:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/23/13 01:06	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/23/13 01:06	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/23/13 01:06	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/23/13 01:06	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/23/13 01:06	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/23/13 01:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/23/13 01:06	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/23/13 01:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/23/13 01:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/23/13 01:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/23/13 01:06	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/23/13 01:06	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/23/13 01:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/23/13 01:06	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/23/13 01:06	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/23/13 01:06	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/23/13 01:06	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/23/13 01:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/23/13 01:06	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/23/13 01:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/23/13 01:06	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/23/13 01:06	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/23/13 01:06	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/23/13 01:06	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/23/13 01:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/23/13 01:06	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/23/13 01:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/23/13 01:06	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/23/13 01:06	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/23/13 01:06	108-05-4	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: P-20D **Lab ID: 92148938009** Collected: 02/20/13 11:00 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/23/13 01:06	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/23/13 01:06	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		02/23/13 01:06	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		02/23/13 01:06	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		02/23/13 01:06	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		02/23/13 01:06	2037-26-5	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: P-21 **Lab ID: 92148938010** Collected: 02/20/13 08:30 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/23/13 01:22	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/23/13 01:22	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/23/13 01:22	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/23/13 01:22	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/23/13 01:22	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/23/13 01:22	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/23/13 01:22	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/23/13 01:22	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/23/13 01:22	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/23/13 01:22	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/23/13 01:22	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/23/13 01:22	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/23/13 01:22	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/23/13 01:22	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/23/13 01:22	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/23/13 01:22	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/23/13 01:22	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/23/13 01:22	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/23/13 01:22	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/23/13 01:22	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/23/13 01:22	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/23/13 01:22	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/23/13 01:22	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/23/13 01:22	75-35-4	
cis-1,2-Dichloroethene	**1.6J**	ug/L	5.0	0.19	1		02/23/13 01:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/23/13 01:22	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/23/13 01:22	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/23/13 01:22	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/23/13 01:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/23/13 01:22	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/23/13 01:22	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/23/13 01:22	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/23/13 01:22	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/23/13 01:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/23/13 01:22	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/23/13 01:22	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/23/13 01:22	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/23/13 01:22	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/23/13 01:22	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/23/13 01:22	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/23/13 01:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/23/13 01:22	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/23/13 01:22	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/23/13 01:22	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/23/13 01:22	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/23/13 01:22	108-05-4	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: P-21 **Lab ID: 92148938010** Collected: 02/20/13 08:30 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/23/13 01:22	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/23/13 01:22	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		02/23/13 01:22	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		02/23/13 01:22	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		02/23/13 01:22	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		02/23/13 01:22	2037-26-5	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: MW-2 **Lab ID: 92148938011** Collected: 02/20/13 17:40 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, 3030C	Analytical Method: EPA 6010 Preparation Method: SM 3030C								
Antimony	**5.4J**	ug/L	6.0	5.0	1	02/22/13 19:35	02/24/13 18:10	7440-36-0	B
Arsenic	ND	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:10	7440-38-2	
Barium	**23.2J**	ug/L	100	5.0	1	02/22/13 19:35	02/24/13 18:10	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	02/22/13 19:35	02/24/13 18:10	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	02/22/13 19:35	02/24/13 18:10	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:10	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:10	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:10	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:10	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	02/22/13 19:35	02/24/13 18:10	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:10	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:10	7440-22-4	
Thallium	ND	ug/L	5.5	5.5	1	02/22/13 19:35	02/24/13 18:10	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	02/22/13 19:35	02/24/13 18:10	7440-62-2	
Zinc	**53.7**	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:10	7440-66-6	B
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/23/13 01:38	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/23/13 01:38	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/23/13 01:38	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/23/13 01:38	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/23/13 01:38	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/23/13 01:38	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/23/13 01:38	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/23/13 01:38	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/23/13 01:38	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/23/13 01:38	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/23/13 01:38	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/23/13 01:38	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/23/13 01:38	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/23/13 01:38	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/23/13 01:38	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/23/13 01:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/23/13 01:38	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/23/13 01:38	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/23/13 01:38	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/23/13 01:38	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/23/13 01:38	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/23/13 01:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/23/13 01:38	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/23/13 01:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/23/13 01:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/23/13 01:38	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/23/13 01:38	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/23/13 01:38	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/23/13 01:38	10061-01-5	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: MW-2 **Lab ID: 92148938011** Collected: 02/20/13 17:40 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/23/13 01:38	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/23/13 01:38	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/23/13 01:38	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/23/13 01:38	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/23/13 01:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/23/13 01:38	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/23/13 01:38	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/23/13 01:38	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/23/13 01:38	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/23/13 01:38	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/23/13 01:38	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/23/13 01:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/23/13 01:38	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/23/13 01:38	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/23/13 01:38	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/23/13 01:38	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/23/13 01:38	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/23/13 01:38	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/23/13 01:38	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		02/23/13 01:38	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		02/23/13 01:38	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		02/23/13 01:38	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		02/23/13 01:38	2037-26-5	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: MW-6D **Lab ID: 92148938012** Collected: 02/21/13 08:35 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, 3030C	Analytical Method: EPA 6010 Preparation Method: SM 3030C								
Antimony	ND	ug/L	6.0	5.0	1	02/22/13 19:35	02/24/13 18:13	7440-36-0	B
Arsenic	ND	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:13	7440-38-2	
Barium	**8.2J**	ug/L	100	5.0	1	02/22/13 19:35	02/24/13 18:13	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	02/22/13 19:35	02/24/13 18:13	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	02/22/13 19:35	02/24/13 18:13	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:13	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:13	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:13	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:13	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	02/22/13 19:35	02/24/13 18:13	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:13	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:13	7440-22-4	
Thallium	ND	ug/L	5.5	5.5	1	02/22/13 19:35	02/24/13 18:13	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	02/22/13 19:35	02/24/13 18:13	7440-62-2	
Zinc	**23.8**	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:13	7440-66-6	B
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/23/13 01:54	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/23/13 01:54	107-13-1	
Benzene	**0.45J**	ug/L	1.0	0.25	1		02/23/13 01:54	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/23/13 01:54	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/23/13 01:54	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/23/13 01:54	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/23/13 01:54	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/23/13 01:54	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/23/13 01:54	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/23/13 01:54	56-23-5	
Chlorobenzene	**2.6J**	ug/L	3.0	0.23	1		02/23/13 01:54	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/23/13 01:54	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/23/13 01:54	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/23/13 01:54	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/23/13 01:54	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/23/13 01:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/23/13 01:54	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/23/13 01:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/23/13 01:54	95-50-1	
1,4-Dichlorobenzene	**10.2**	ug/L	1.0	0.33	1		02/23/13 01:54	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/23/13 01:54	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/23/13 01:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/23/13 01:54	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/23/13 01:54	75-35-4	
cis-1,2-Dichloroethene	**9.6**	ug/L	5.0	0.19	1		02/23/13 01:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/23/13 01:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/23/13 01:54	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/23/13 01:54	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/23/13 01:54	10061-01-5	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: MW-6D **Lab ID: 92148938012** Collected: 02/21/13 08:35 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/23/13 01:54	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/23/13 01:54	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/23/13 01:54	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/23/13 01:54	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/23/13 01:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/23/13 01:54	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/23/13 01:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/23/13 01:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/23/13 01:54	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/23/13 01:54	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/23/13 01:54	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/23/13 01:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/23/13 01:54	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/23/13 01:54	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/23/13 01:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/23/13 01:54	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/23/13 01:54	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/23/13 01:54	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/23/13 01:54	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		02/23/13 01:54	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		02/23/13 01:54	1868-53-7	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		02/23/13 01:54	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		02/23/13 01:54	2037-26-5	
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		02/26/13 13:30	18496-25-8	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: MW-8 **Lab ID: 92148938013** Collected: 02/20/13 14:50 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, 3030C	Analytical Method: EPA 6010 Preparation Method: SM 3030C								
Antimony	ND	ug/L	6.0	5.0	1	02/22/13 19:35	02/24/13 18:16	7440-36-0	B
Arsenic	ND	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:16	7440-38-2	
Barium	ND	ug/L	100	5.0	1	02/22/13 19:35	02/24/13 18:16	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	02/22/13 19:35	02/24/13 18:16	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	02/22/13 19:35	02/24/13 18:16	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:16	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:16	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:16	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:16	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	02/22/13 19:35	02/24/13 18:16	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:16	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:16	7440-22-4	
Thallium	ND	ug/L	5.5	5.5	1	02/22/13 19:35	02/24/13 18:16	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	02/22/13 19:35	02/24/13 18:16	7440-62-2	
Zinc	**28.1**	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:16	7440-66-6	B
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/23/13 02:10	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/23/13 02:10	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/23/13 02:10	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/23/13 02:10	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/23/13 02:10	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/23/13 02:10	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/23/13 02:10	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/23/13 02:10	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/23/13 02:10	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/23/13 02:10	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/23/13 02:10	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/23/13 02:10	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/23/13 02:10	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/23/13 02:10	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/23/13 02:10	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/23/13 02:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/23/13 02:10	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/23/13 02:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/23/13 02:10	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/23/13 02:10	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/23/13 02:10	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/23/13 02:10	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/23/13 02:10	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/23/13 02:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/23/13 02:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/23/13 02:10	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/23/13 02:10	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/23/13 02:10	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/23/13 02:10	10061-01-5	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: MW-8 **Lab ID: 92148938013** Collected: 02/20/13 14:50 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/23/13 02:10	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/23/13 02:10	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/23/13 02:10	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/23/13 02:10	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/23/13 02:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/23/13 02:10	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/23/13 02:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/23/13 02:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/23/13 02:10	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/23/13 02:10	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/23/13 02:10	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/23/13 02:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/23/13 02:10	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/23/13 02:10	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/23/13 02:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/23/13 02:10	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/23/13 02:10	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/23/13 02:10	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/23/13 02:10	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		02/23/13 02:10	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		02/23/13 02:10	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		02/23/13 02:10	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		02/23/13 02:10	2037-26-5	
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		02/26/13 13:30	18496-25-8	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: MW-7 **Lab ID: 92148938014** Collected: 02/21/13 08:00 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, 3030C	Analytical Method: EPA 6010 Preparation Method: SM 3030C								
Antimony	ND	ug/L	6.0	5.0	1	02/22/13 19:35	02/24/13 18:28	7440-36-0	B
Arsenic	ND	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:28	7440-38-2	
Barium	**40.4J**	ug/L	100	5.0	1	02/22/13 19:35	02/24/13 18:28	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	02/22/13 19:35	02/24/13 18:28	7440-41-7	
Cadmium	**2.0**	ug/L	1.0	1.0	1	02/22/13 19:35	02/24/13 18:28	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:28	7440-47-3	
Cobalt	**32.3**	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:28	7440-48-4	
Copper	**21.6**	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:28	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:28	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	02/22/13 19:35	02/24/13 18:28	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:28	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:28	7440-22-4	
Thallium	ND	ug/L	5.5	5.5	1	02/22/13 19:35	02/24/13 18:28	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	02/22/13 19:35	02/24/13 18:28	7440-62-2	
Zinc	**23.5**	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:28	7440-66-6	B
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/23/13 02:26	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/23/13 02:26	107-13-1	
Benzene	**3.9**	ug/L	1.0	0.25	1		02/23/13 02:26	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/23/13 02:26	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/23/13 02:26	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/23/13 02:26	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/23/13 02:26	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/23/13 02:26	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/23/13 02:26	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/23/13 02:26	56-23-5	
Chlorobenzene	**0.59J**	ug/L	3.0	0.23	1		02/23/13 02:26	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/23/13 02:26	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/23/13 02:26	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/23/13 02:26	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/23/13 02:26	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/23/13 02:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/23/13 02:26	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/23/13 02:26	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/23/13 02:26	95-50-1	
1,4-Dichlorobenzene	**0.56J**	ug/L	1.0	0.33	1		02/23/13 02:26	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/23/13 02:26	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/23/13 02:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/23/13 02:26	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/23/13 02:26	75-35-4	
cis-1,2-Dichloroethene	**31.4**	ug/L	5.0	0.19	1		02/23/13 02:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/23/13 02:26	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/23/13 02:26	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/23/13 02:26	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/23/13 02:26	10061-01-5	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: MW-7 **Lab ID: 92148938014** Collected: 02/21/13 08:00 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/23/13 02:26	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/23/13 02:26	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/23/13 02:26	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/23/13 02:26	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/23/13 02:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/23/13 02:26	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/23/13 02:26	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/23/13 02:26	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/23/13 02:26	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/23/13 02:26	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/23/13 02:26	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/23/13 02:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/23/13 02:26	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/23/13 02:26	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/23/13 02:26	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/23/13 02:26	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/23/13 02:26	108-05-4	
Vinyl chloride	**2.1**	ug/L	1.0	0.62	1		02/23/13 02:26	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/23/13 02:26	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		02/23/13 02:26	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		02/23/13 02:26	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		02/23/13 02:26	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		02/23/13 02:26	2037-26-5	
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	**184J**	ug/L	1000	100	1		02/26/13 13:30	18496-25-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E								
Cyanide	**5.2J**	ug/L	10.0	5.0	1		02/28/13 12:15	57-12-5	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: MW-3 **Lab ID: 92148938015** Collected: 02/20/13 17:00 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, 3030C	Analytical Method: EPA 6010 Preparation Method: SM 3030C								
Antimony	**5.2J**	ug/L	6.0	5.0	1	02/22/13 19:35	02/24/13 18:32	7440-36-0	B
Arsenic	ND	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:32	7440-38-2	
Barium	**36.9J**	ug/L	100	5.0	1	02/22/13 19:35	02/24/13 18:32	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	02/22/13 19:35	02/24/13 18:32	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	02/22/13 19:35	02/24/13 18:32	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:32	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:32	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:32	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:32	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	02/22/13 19:35	02/24/13 18:32	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:32	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:32	7440-22-4	
Thallium	ND	ug/L	5.5	5.5	1	02/22/13 19:35	02/24/13 18:32	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	02/22/13 19:35	02/24/13 18:32	7440-62-2	
Zinc	**78.0**	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:32	7440-66-6	B
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/23/13 02:42	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/23/13 02:42	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/23/13 02:42	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/23/13 02:42	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/23/13 02:42	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/23/13 02:42	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/23/13 02:42	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/23/13 02:42	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/23/13 02:42	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/23/13 02:42	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/23/13 02:42	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/23/13 02:42	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/23/13 02:42	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/23/13 02:42	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/23/13 02:42	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/23/13 02:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/23/13 02:42	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/23/13 02:42	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/23/13 02:42	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/23/13 02:42	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/23/13 02:42	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/23/13 02:42	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/23/13 02:42	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/23/13 02:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/23/13 02:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/23/13 02:42	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/23/13 02:42	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/23/13 02:42	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/23/13 02:42	10061-01-5	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: MW-3 **Lab ID: 92148938015** Collected: 02/20/13 17:00 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/23/13 02:42	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/23/13 02:42	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/23/13 02:42	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/23/13 02:42	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/23/13 02:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/23/13 02:42	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/23/13 02:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/23/13 02:42	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/23/13 02:42	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/23/13 02:42	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/23/13 02:42	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/23/13 02:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/23/13 02:42	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/23/13 02:42	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/23/13 02:42	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/23/13 02:42	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/23/13 02:42	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/23/13 02:42	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/23/13 02:42	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		02/23/13 02:42	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		02/23/13 02:42	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		02/23/13 02:42	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		02/23/13 02:42	2037-26-5	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E								
Cyanide	ND	ug/L	10.0	5.0	1		02/28/13 12:16	57-12-5	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: MW-5 **Lab ID: 92148938016** Collected: 02/20/13 15:30 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, 3030C	Analytical Method: EPA 6010 Preparation Method: SM 3030C								
Antimony	ND	ug/L	6.0	5.0	1	02/22/13 19:35	02/24/13 18:35	7440-36-0	B
Arsenic	ND	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:35	7440-38-2	
Barium	**10.8J**	ug/L	100	5.0	1	02/22/13 19:35	02/24/13 18:35	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	02/22/13 19:35	02/24/13 18:35	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	02/22/13 19:35	02/24/13 18:35	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:35	7440-47-3	
Cobalt	**6.7J**	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:35	7440-48-4	
Copper	**7.3J**	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:35	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:35	7439-92-1	
Nickel	**41.2J**	ug/L	50.0	5.0	1	02/22/13 19:35	02/24/13 18:35	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:35	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:35	7440-22-4	
Thallium	ND	ug/L	5.5	5.5	1	02/22/13 19:35	02/24/13 18:35	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	02/22/13 19:35	02/24/13 18:35	7440-62-2	
Zinc	**118**	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:35	7440-66-6	B
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
bis(2-Ethylhexyl)phthalate	ND	ug/L	15.0	0.79	1	02/26/13 09:30	03/04/13 03:50	117-81-7	
Surrogates									
Nitrobenzene-d5 (S)	66	%	21-110		1	02/26/13 09:30	03/04/13 03:50	4165-60-0	
2-Fluorobiphenyl (S)	71	%	27-110		1	02/26/13 09:30	03/04/13 03:50	321-60-8	
Terphenyl-d14 (S)	48	%	31-107		1	02/26/13 09:30	03/04/13 03:50	1718-51-0	
Phenol-d6 (S)	17	%	10-110		1	02/26/13 09:30	03/04/13 03:50	13127-88-3	
2-Fluorophenol (S)	29	%	12-110		1	02/26/13 09:30	03/04/13 03:50	367-12-4	
2,4,6-Tribromophenol (S)	52	%	27-110		1	02/26/13 09:30	03/04/13 03:50	118-79-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/23/13 02:57	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/23/13 02:57	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/23/13 02:57	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/23/13 02:57	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/23/13 02:57	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/23/13 02:57	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/23/13 02:57	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/23/13 02:57	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/23/13 02:57	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/23/13 02:57	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/23/13 02:57	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/23/13 02:57	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/23/13 02:57	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/23/13 02:57	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/23/13 02:57	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/23/13 02:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/23/13 02:57	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/23/13 02:57	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/23/13 02:57	95-50-1	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: MW-5 **Lab ID: 92148938016** Collected: 02/20/13 15:30 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/23/13 02:57	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/23/13 02:57	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/23/13 02:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/23/13 02:57	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/23/13 02:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/23/13 02:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/23/13 02:57	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/23/13 02:57	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/23/13 02:57	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/23/13 02:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/23/13 02:57	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/23/13 02:57	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/23/13 02:57	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/23/13 02:57	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/23/13 02:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/23/13 02:57	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/23/13 02:57	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/23/13 02:57	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/23/13 02:57	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/23/13 02:57	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/23/13 02:57	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/23/13 02:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/23/13 02:57	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/23/13 02:57	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/23/13 02:57	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/23/13 02:57	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/23/13 02:57	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/23/13 02:57	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/23/13 02:57	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		02/23/13 02:57	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		02/23/13 02:57	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		02/23/13 02:57	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		02/23/13 02:57	2037-26-5	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: MW-6S **Lab ID: 92148938017** Collected: 02/21/13 09:15 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, 3030C	Analytical Method: EPA 6010 Preparation Method: SM 3030C								
Antimony	ND	ug/L	6.0	5.0	1	02/22/13 19:35	02/24/13 18:38	7440-36-0	B
Arsenic	ND	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:38	7440-38-2	
Barium	**141**	ug/L	100	5.0	1	02/22/13 19:35	02/24/13 18:38	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	02/22/13 19:35	02/24/13 18:38	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	02/22/13 19:35	02/24/13 18:38	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:38	7440-47-3	
Cobalt	**29.1**	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:38	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:38	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:38	7439-92-1	
Nickel	**9.0J**	ug/L	50.0	5.0	1	02/22/13 19:35	02/24/13 18:38	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:38	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:38	7440-22-4	
Thallium	ND	ug/L	5.5	5.5	1	02/22/13 19:35	02/24/13 18:38	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	02/22/13 19:35	02/24/13 18:38	7440-62-2	
Zinc	**27.3**	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:38	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	02/25/13 17:45	02/28/13 15:17	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/23/13 03:13	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/23/13 03:13	107-13-1	
Benzene	**1.9**	ug/L	1.0	0.25	1		02/23/13 03:13	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/23/13 03:13	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/23/13 03:13	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/23/13 03:13	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/23/13 03:13	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/23/13 03:13	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/23/13 03:13	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/23/13 03:13	56-23-5	
Chlorobenzene	**3.0J**	ug/L	3.0	0.23	1		02/23/13 03:13	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/23/13 03:13	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/23/13 03:13	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/23/13 03:13	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/23/13 03:13	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/23/13 03:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/23/13 03:13	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/23/13 03:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/23/13 03:13	95-50-1	
1,4-Dichlorobenzene	**13.8**	ug/L	1.0	0.33	1		02/23/13 03:13	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/23/13 03:13	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/23/13 03:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/23/13 03:13	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/23/13 03:13	75-35-4	
cis-1,2-Dichloroethene	**6.1**	ug/L	5.0	0.19	1		02/23/13 03:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/23/13 03:13	156-60-5	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: MW-6S **Lab ID: 92148938017** Collected: 02/21/13 09:15 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/23/13 03:13	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/23/13 03:13	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/23/13 03:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/23/13 03:13	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/23/13 03:13	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/23/13 03:13	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/23/13 03:13	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/23/13 03:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/23/13 03:13	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/23/13 03:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/23/13 03:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/23/13 03:13	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/23/13 03:13	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/23/13 03:13	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/23/13 03:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/23/13 03:13	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/23/13 03:13	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/23/13 03:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/23/13 03:13	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/23/13 03:13	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/23/13 03:13	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/23/13 03:13	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		02/23/13 03:13	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		02/23/13 03:13	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		02/23/13 03:13	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		02/23/13 03:13	2037-26-5	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: LEACHATE **Lab ID: 92148938018** Collected: 02/21/13 10:00 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, 3030C	Analytical Method: EPA 6010 Preparation Method: SM 3030C								
Antimony	ND	ug/L	6.0	5.0	1	02/22/13 19:35	02/24/13 18:41	7440-36-0	B
Arsenic	ND	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:41	7440-38-2	
Barium	**401**	ug/L	100	5.0	1	02/22/13 19:35	02/24/13 18:41	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	02/22/13 19:35	02/24/13 18:41	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	02/22/13 19:35	02/24/13 18:41	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:41	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:41	7440-48-4	
Copper	**7.9J**	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:41	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:41	7439-92-1	
Nickel	**7.1J**	ug/L	50.0	5.0	1	02/22/13 19:35	02/24/13 18:41	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:41	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:41	7440-22-4	
Thallium	ND	ug/L	5.5	5.5	1	02/22/13 19:35	02/24/13 18:41	7440-28-0	
Tin	ND	ug/L	100	5.0	1	02/22/13 19:35	02/24/13 18:41	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	02/22/13 19:35	02/24/13 18:41	7440-62-2	
Zinc	**26.3**	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:41	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	03/07/13 18:20	03/08/13 12:52	7439-97-6	M1
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/23/13 03:29	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/23/13 03:29	107-13-1	
Benzene	**4.9**	ug/L	1.0	0.25	1		02/23/13 03:29	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/23/13 03:29	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/23/13 03:29	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/23/13 03:29	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/23/13 03:29	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/23/13 03:29	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/23/13 03:29	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/23/13 03:29	56-23-5	
Chlorobenzene	**5.3**	ug/L	3.0	0.23	1		02/23/13 03:29	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/23/13 03:29	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/23/13 03:29	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/23/13 03:29	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/23/13 03:29	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/23/13 03:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/23/13 03:29	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/23/13 03:29	74-95-3	
1,2-Dichlorobenzene	**0.30J**	ug/L	5.0	0.30	1		02/23/13 03:29	95-50-1	
1,4-Dichlorobenzene	**4.0**	ug/L	1.0	0.33	1		02/23/13 03:29	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/23/13 03:29	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/23/13 03:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/23/13 03:29	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/23/13 03:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/23/13 03:29	156-59-2	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: LEACHATE **Lab ID: 92148938018** Collected: 02/21/13 10:00 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/23/13 03:29	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/23/13 03:29	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/23/13 03:29	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/23/13 03:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/23/13 03:29	10061-02-6	
Ethylbenzene	**1.1**	ug/L	1.0	0.30	1		02/23/13 03:29	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/23/13 03:29	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/23/13 03:29	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/23/13 03:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/23/13 03:29	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/23/13 03:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/23/13 03:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/23/13 03:29	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/23/13 03:29	127-18-4	
Toluene	**0.49J**	ug/L	1.0	0.26	1		02/23/13 03:29	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/23/13 03:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/23/13 03:29	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/23/13 03:29	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/23/13 03:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/23/13 03:29	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/23/13 03:29	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/23/13 03:29	75-01-4	
Xylene (Total)	**2.1J**	ug/L	5.0	0.66	1		02/23/13 03:29	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		02/23/13 03:29	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		02/23/13 03:29	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		02/23/13 03:29	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		02/23/13 03:29	2037-26-5	
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	**10200**	ug/L	2000	2000	1	02/22/13 17:30	02/27/13 13:50		B2
9040 pH	Analytical Method: EPA 9040								
pH	**7.3**	Std. Units	0.10	0.10	1		03/04/13 16:05		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	ND	ug/L	250000	2000	1		02/26/13 17:06	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	ug/L	10000	20.0	1		02/22/13 01:10		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1								
Phosphorus	**79.5**	ug/L	50.0	50.0	1		03/05/13 13:23	7723-14-0	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: LEACHATE **Lab ID: 92148938018** Collected: 02/21/13 10:00 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E								
Cyanide	ND	ug/L	10.0	5.0	1		02/28/13 12:17	57-12-5	
5220D COD	Analytical Method: SM 5220D								
Chemical Oxygen Demand	**114000**	ug/L	25000	25000	1		02/27/13 11:00		

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QUALITY CONTROL DATA

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

QC Batch: MERP/4951
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Associated Lab Samples: 92148938017

METHOD BLANK: 928077
Matrix: Water
Associated Lab Samples: 92148938017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	02/28/13 14:36	

LABORATORY CONTROL SAMPLE: 928078

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.3	90	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 928079 928080

Parameter	Units	92148941004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.3	2.2	92	90	75-125	2	25	

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QUALITY CONTROL DATA

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

QC Batch: MERP/4981
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Associated Lab Samples: 92148938018

METHOD BLANK: 934231
Matrix: Water
Associated Lab Samples: 92148938018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	03/08/13 12:47	

LABORATORY CONTROL SAMPLE: 934232

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.1	86	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 934233 934234

Parameter	Units	92148938018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	2.5	2.5	0.75	0.80	30	32	75-125	6	25	M1

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QUALITY CONTROL DATA

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

QC Batch: MPRP/12673 Analysis Method: EPA 6010
QC Batch Method: SM 3030C Analysis Description: 6010 MET 3030C
Associated Lab Samples: 92148938001, 92148938002, 92148938003, 92148938011, 92148938012, 92148938013, 92148938014, 92148938015, 92148938016, 92148938017, 92148938018

METHOD BLANK: 927599 Matrix: Water
Associated Lab Samples: 92148938001, 92148938002, 92148938003, 92148938011, 92148938012, 92148938013, 92148938014, 92148938015, 92148938016, 92148938017, 92148938018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	5.8J	6.0	02/24/13 17:27	B
Arsenic	ug/L	ND	10.0	02/24/13 17:27	
Barium	ug/L	ND	100	02/24/13 17:27	
Beryllium	ug/L	ND	1.0	02/24/13 17:27	
Cadmium	ug/L	ND	1.0	02/24/13 17:27	
Chromium	ug/L	ND	10.0	02/24/13 17:27	
Cobalt	ug/L	ND	10.0	02/24/13 17:27	
Copper	ug/L	ND	10.0	02/24/13 17:27	
Lead	ug/L	ND	10.0	02/24/13 17:27	
Nickel	ug/L	ND	50.0	02/24/13 17:27	
Selenium	ug/L	ND	10.0	02/24/13 17:27	
Silver	ug/L	ND	10.0	02/24/13 17:27	
Thallium	ug/L	ND	5.5	02/24/13 17:27	
Tin	ug/L	ND	100	02/24/13 17:27	
Vanadium	ug/L	ND	25.0	02/24/13 17:27	
Zinc	ug/L	21.5	10.0	02/24/13 17:27	B

LABORATORY CONTROL SAMPLE: 927600

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	492	98	80-120	
Arsenic	ug/L	500	488	98	80-120	
Barium	ug/L	500	462	92	80-120	
Beryllium	ug/L	500	468	94	80-120	
Cadmium	ug/L	500	493	99	80-120	
Chromium	ug/L	500	465	93	80-120	
Cobalt	ug/L	500	469	94	80-120	
Copper	ug/L	500	471	94	80-120	
Lead	ug/L	500	470	94	80-120	
Nickel	ug/L	500	480	96	80-120	
Selenium	ug/L	500	542	108	80-120	
Silver	ug/L	250	237	95	80-120	
Thallium	ug/L	500	457	91	80-120	
Tin	ug/L	500	478	96	80-120	
Vanadium	ug/L	500	464	93	80-120	
Zinc	ug/L	500	537	107	80-120	

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QUALITY CONTROL DATA

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

MATRIX SPIKE SAMPLE: 927601

Parameter	Units	92148937001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	6.8	500	475	94	75-125	
Arsenic	ug/L	ND	500	473	94	75-125	
Barium	ug/L	6.2J	500	464	92	75-125	
Beryllium	ug/L	ND	500	463	93	75-125	
Cadmium	ug/L	ND	500	475	95	75-125	
Chromium	ug/L	ND	500	453	91	75-125	
Cobalt	ug/L	ND	500	456	91	75-125	
Copper	ug/L	ND	500	460	92	75-125	
Lead	ug/L	ND	500	457	91	75-125	
Nickel	ug/L	ND	500	467	93	75-125	
Selenium	ug/L	ND	500	515	102	75-125	
Silver	ug/L	ND	250	231	92	75-125	
Thallium	ug/L	ND	500	460	91	75-125	
Tin	ug/L	ND	500	468	93	75-125	
Vanadium	ug/L	ND	500	452	90	75-125	
Zinc	ug/L	30.0	500	509	96	75-125	

SAMPLE DUPLICATE: 927602

Parameter	Units	92148937002 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	5.1J	6.7	27	20	D6
Arsenic	ug/L	ND	ND		20	
Barium	ug/L	6.0J	5.9J	2	20	
Beryllium	ug/L	ND	ND		20	
Cadmium	ug/L	ND	ND		20	
Chromium	ug/L	ND	ND		20	
Cobalt	ug/L	ND	ND		20	
Copper	ug/L	ND	ND		20	
Lead	ug/L	ND	ND		20	
Nickel	ug/L	ND	ND		20	
Selenium	ug/L	ND	ND		20	
Silver	ug/L	ND	ND		20	
Thallium	ug/L	ND	ND		20	
Tin	ug/L	ND	ND		20	
Vanadium	ug/L	ND	ND		20	
Zinc	ug/L	25.8	27.5	6	20	

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QUALITY CONTROL DATA

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

QC Batch: MSV/22120 — Analysis Method: EPA 8260
QC Batch Method: EPA 8260 — Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 92148938001, 92148938002, 92148938003, 92148938004, 92148938005, 92148938006, 92148938007, 92148938008, 92148938009, 92148938010, 92148938011, 92148938012, 92148938013, 92148938014, 92148938015, 92148938016, 92148938017, 92148938018

METHOD BLANK: 927303 — Matrix: Water
Associated Lab Samples: 92148938001, 92148938002, 92148938003, 92148938004, 92148938005, 92148938006, 92148938007, 92148938008, 92148938009, 92148938010, 92148938011, 92148938012, 92148938013, 92148938014, 92148938015, 92148938016, 92148938017, 92148938018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	02/22/13 22:11	
1,1,1-Trichloroethane	ug/L	ND	1.0	02/22/13 22:11	
1,1,2,2-Tetrachloroethane	ug/L	ND	3.0	02/22/13 22:11	
1,1,2-Trichloroethane	ug/L	ND	1.0	02/22/13 22:11	
1,1-Dichloroethane	ug/L	ND	5.0	02/22/13 22:11	
1,1-Dichloroethene	ug/L	ND	5.0	02/22/13 22:11	
1,2,3-Trichloropropane	ug/L	ND	1.0	02/22/13 22:11	
1,2-Dibromo-3-chloropropane	ug/L	ND	13.0	02/22/13 22:11	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	02/22/13 22:11	
1,2-Dichlorobenzene	ug/L	ND	5.0	02/22/13 22:11	
1,2-Dichloroethane	ug/L	ND	1.0	02/22/13 22:11	
1,2-Dichloropropane	ug/L	ND	1.0	02/22/13 22:11	
1,3-Dichloropropane	ug/L	ND	1.0	02/22/13 22:11	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/22/13 22:11	
2-Butanone (MEK)	ug/L	ND	100	02/22/13 22:11	
2-Hexanone	ug/L	ND	50.0	02/22/13 22:11	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	02/22/13 22:11	
Acetone	ug/L	ND	100	02/22/13 22:11	
Acrylonitrile	ug/L	ND	200	02/22/13 22:11	
Benzene	ug/L	ND	1.0	02/22/13 22:11	
Bromochloromethane	ug/L	ND	3.0	02/22/13 22:11	
Bromodichloromethane	ug/L	ND	1.0	02/22/13 22:11	
Bromoform	ug/L	ND	3.0	02/22/13 22:11	
Bromomethane	ug/L	ND	10.0	02/22/13 22:11	
Carbon disulfide	ug/L	ND	100	02/22/13 22:11	
Carbon tetrachloride	ug/L	ND	1.0	02/22/13 22:11	
Chlorobenzene	ug/L	ND	3.0	02/22/13 22:11	
Chloroethane	ug/L	ND	10.0	02/22/13 22:11	
Chloroform	ug/L	ND	5.0	02/22/13 22:11	
Chloromethane	ug/L	ND	1.0	02/22/13 22:11	
cis-1,2-Dichloroethene	ug/L	ND	5.0	02/22/13 22:11	
cis-1,3-Dichloropropene	ug/L	ND	1.0	02/22/13 22:11	
Dibromochloromethane	ug/L	ND	3.0	02/22/13 22:11	
Dibromomethane	ug/L	ND	10.0	02/22/13 22:11	
Ethylbenzene	ug/L	ND	1.0	02/22/13 22:11	
Iodomethane	ug/L	ND	10.0	02/22/13 22:11	
Methylene Chloride	ug/L	ND	1.0	02/22/13 22:11	
Styrene	ug/L	ND	1.0	02/22/13 22:11	
Tetrachloroethene	ug/L	ND	1.0	02/22/13 22:11	

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QUALITY CONTROL DATA

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

METHOD BLANK: 927303 Matrix: Water

Associated Lab Samples: 92148938001, 92148938002, 92148938003, 92148938004, 92148938005, 92148938006, 92148938007, 92148938008, 92148938009, 92148938010, 92148938011, 92148938012, 92148938013, 92148938014, 92148938015, 92148938016, 92148938017, 92148938018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Toluene	ug/L	ND	1.0	02/22/13 22:11	
trans-1,2-Dichloroethene	ug/L	ND	5.0	02/22/13 22:11	
trans-1,3-Dichloropropene	ug/L	ND	1.0	02/22/13 22:11	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	02/22/13 22:11	
Trichloroethene	ug/L	ND	1.0	02/22/13 22:11	
Trichlorofluoromethane	ug/L	ND	1.0	02/22/13 22:11	
Vinyl acetate	ug/L	ND	50.0	02/22/13 22:11	
Vinyl chloride	ug/L	ND	1.0	02/22/13 22:11	
Xylene (Total)	ug/L	ND	5.0	02/22/13 22:11	
1,2-Dichloroethane-d4 (S)	%	98	70-130	02/22/13 22:11	
4-Bromofluorobenzene (S)	%	99	70-130	02/22/13 22:11	
Dibromofluoromethane (S)	%	107	70-130	02/22/13 22:11	
Toluene-d8 (S)	%	98	70-130	02/22/13 22:11	

LABORATORY CONTROL SAMPLE: 927304

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	58.5	117	70-130	
1,1,1-Trichloroethane	ug/L	50	54.5	109	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	55.2	110	70-130	
1,1,2-Trichloroethane	ug/L	50	53.0	106	70-130	
1,1-Dichloroethane	ug/L	50	53.8	108	70-130	
1,1-Dichloroethene	ug/L	50	50.3	101	70-132	
1,2,3-Trichloropropane	ug/L	50	54.9	110	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	58.6	117	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	57.5	115	70-130	
1,2-Dichlorobenzene	ug/L	50	55.1	110	70-130	
1,2-Dichloroethane	ug/L	50	53.3	107	70-130	
1,2-Dichloropropane	ug/L	50	53.8	108	70-130	
1,3-Dichloropropane	ug/L	50	55.6	111	70-130	
1,4-Dichlorobenzene	ug/L	50	54.3	109	70-130	
2-Butanone (MEK)	ug/L	100	111	111	70-145	
2-Hexanone	ug/L	100	104	104	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	100	99.1J	99	70-140	
Acetone	ug/L	100	106	106	50-175	
Acrylonitrile	ug/L	250	266	106	70-143	
Benzene	ug/L	50	54.5	109	70-130	
Bromochloromethane	ug/L	50	54.5	109	70-130	
Bromodichloromethane	ug/L	50	54.6	109	70-130	
Bromoform	ug/L	50	50.6	101	70-130	
Bromomethane	ug/L	50	57.9	116	54-130	
Carbon disulfide	ug/L	50	47.8J	96	70-131	
Carbon tetrachloride	ug/L	50	56.1	112	70-132	
Chlorobenzene	ug/L	50	55.3	111	70-130	

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QUALITY CONTROL DATA

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

LABORATORY CONTROL SAMPLE: 927304

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloroethane	ug/L	50	44.2	88	64-134	
Chloroform	ug/L	50	52.6	105	70-130	
Chloromethane	ug/L	50	40.3	81	64-130	
cis-1,2-Dichloroethene	ug/L	50	53.1	106	70-131	
cis-1,3-Dichloropropene	ug/L	50	55.5	111	70-130	
Dibromochloromethane	ug/L	50	58.6	117	70-130	
Dibromomethane	ug/L	50	55.1	110	70-131	
Ethylbenzene	ug/L	50	55.2	110	70-130	
Iodomethane	ug/L	100	86.8	87	49-180	
Methylene Chloride	ug/L	50	49.8	100	63-130	
Styrene	ug/L	50	56.1	112	70-130	
Tetrachloroethene	ug/L	50	52.6	105	70-130	
Toluene	ug/L	50	54.0	108	70-130	
trans-1,2-Dichloroethene	ug/L	50	49.0	98	70-130	
trans-1,3-Dichloropropene	ug/L	50	54.6	109	70-132	
trans-1,4-Dichloro-2-butene	ug/L	50	41.4J	83	70-141	
Trichloroethene	ug/L	50	49.3	99	70-130	
Trichlorofluoromethane	ug/L	50	49.0	98	62-133	
Vinyl acetate	ug/L	100	114	114	66-157	
Vinyl chloride	ug/L	50	50.1	100	69-130	
Xylene (Total)	ug/L	150	165	110	70-130	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			99	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 927305 927306

Parameter	Units	92148938017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	55.9	54.9	112	110	70-166	2	30	
Benzene	ug/L	1.9	50	50	54.6	52.0	105	100	70-148	5	30	
Chlorobenzene	ug/L	3.0J	50	50	65.1	61.9	124	118	70-146	5	30	
Toluene	ug/L	ND	50	50	58.8	54.3	118	109	70-155	8	30	
Trichloroethene	ug/L	ND	50	50	55.1	52.6	110	105	69-151	5	30	
1,2-Dichloroethane-d4 (S)	%						94	97	70-130			
4-Bromofluorobenzene (S)	%						100	101	70-130			
Dibromofluoromethane (S)	%						104	105	70-130			
Toluene-d8 (S)	%						97	97	70-130			

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QUALITY CONTROL DATA

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

QC Batch: OEXT/20965
QC Batch Method: EPA 3510
Analysis Method: EPA 8270
Analysis Description: 8270 Water MSSV
Associated Lab Samples: 92148938016

METHOD BLANK: 928509
Matrix: Water
Associated Lab Samples: 92148938016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
bis(2-Ethylhexyl)phthalate	ug/L	ND	15.0	03/03/13 19:47	
2,4,6-Tribromophenol (S)	%	63	27-110	03/03/13 19:47	
2-Fluorobiphenyl (S)	%	67	27-110	03/03/13 19:47	
2-Fluorophenol (S)	%	34	12-110	03/03/13 19:47	
Nitrobenzene-d5 (S)	%	67	21-110	03/03/13 19:47	
Phenol-d6 (S)	%	23	10-110	03/03/13 19:47	
Terphenyl-d14 (S)	%	83	31-107	03/03/13 19:47	

LABORATORY CONTROL SAMPLE: 928510

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
bis(2-Ethylhexyl)phthalate	ug/L	50	39.8	80	16-123	
2,4,6-Tribromophenol (S)	%			81	27-110	
2-Fluorobiphenyl (S)	%			66	27-110	
2-Fluorophenol (S)	%			37	12-110	
Nitrobenzene-d5 (S)	%			54	21-110	
Phenol-d6 (S)	%			23	10-110	
Terphenyl-d14 (S)	%			74	31-107	

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QUALITY CONTROL DATA

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

QC Batch: WET/24323 — Analysis Method: SM 4500-S2D
QC Batch Method: SM 4500-S2D — Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 92148938012, 92148938013, 92148938014

METHOD BLANK: 928450 — Matrix: Water
Associated Lab Samples: 92148938012, 92148938013, 92148938014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	ug/L	ND	1000	02/26/13 13:30	

LABORATORY CONTROL SAMPLE: 928451

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	ug/L	500	511J	102	90-110	

MATRIX SPIKE SAMPLE: 928452

Parameter	Units	92148551002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	ug/L	ND	500	611J	122	75-125	

SAMPLE DUPLICATE: 928453

Parameter	Units	92148551002 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide	ug/L	ND	ND		20	

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

QC Batch: WET/24301
QC Batch Method: SM 5210B
Analysis Method: SM 5210B
Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 92148938018

METHOD BLANK: 927496
Matrix: Water
Associated Lab Samples: 92148938018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	ug/L	ND	2000	02/27/13 13:50	

LABORATORY CONTROL SAMPLE: 927497

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	ug/L	198000	207000	105	84.5-115.4	

SAMPLE DUPLICATE: 927498

Parameter	Units	92148951002 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	ug/L	<2.0 mg/L	ND		20	

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QUALITY CONTROL DATA

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

QC Batch: WET/24408
QC Batch Method: EPA 9040
Analysis Method: EPA 9040
Analysis Description: 9040 pH
Associated Lab Samples: 92148938018

SAMPLE DUPLICATE: 931907

Parameter	Units	92149087001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH	Std. Units	7.9	7.9	0	20	H6

SAMPLE DUPLICATE: 931908

Parameter	Units	92149125002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH	Std. Units	5.7	5.7	0	20	H6

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QUALITY CONTROL DATA

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

QC Batch: WETA/14614
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Associated Lab Samples: 92148938018

METHOD BLANK: 928463
Matrix: Water
Associated Lab Samples: 92148938018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	ug/L	ND	250000	02/26/13 13:16	

LABORATORY CONTROL SAMPLE: 928464

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	20000	20600J	103	90-110	

MATRIX SPIKE SAMPLE: 928465

Parameter	Units	92148783002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	4920 mg/L	20000	4740000J	-928	90-110	M6

SAMPLE DUPLICATE: 928466

Parameter	Units	92148783002 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfate	ug/L	4920 mg/L	4540000J	8	20	

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QUALITY CONTROL DATA

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

QC Batch: WETA/14586
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 92148938018

METHOD BLANK: 927039
Matrix: Water
Associated Lab Samples: 92148938018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	ug/L	ND	10000	02/22/13 00:30	

LABORATORY CONTROL SAMPLE: 927040

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	ug/L	2500	2430J	97	90-110	

MATRIX SPIKE SAMPLE: 927041

Parameter	Units	92148470006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	ug/L	0.25 mg/L	2500	2550J	92	90-110	

MATRIX SPIKE SAMPLE: 927043

Parameter	Units	92148470007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	ug/L	0.59 mg/L	2500	2890J	92	90-110	

SAMPLE DUPLICATE: 927042

Parameter	Units	92148470006 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	ug/L	0.25 mg/L	247J	0	20	

SAMPLE DUPLICATE: 927044

Parameter	Units	92148470007 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	ug/L	0.59 mg/L	588J	1	20	

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QUALITY CONTROL DATA

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

QC Batch: WETA/14669
QC Batch Method: EPA 365.1
Analysis Method: EPA 365.1
Analysis Description: 365.1 Phosphorus, Total
Associated Lab Samples: 92148938018

METHOD BLANK: 931788
Matrix: Water
Associated Lab Samples: 92148938018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	ug/L	ND	50.0	03/05/13 13:08	

LABORATORY CONTROL SAMPLE: 931789

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	ug/L	2500	2560	102	90-110	

MATRIX SPIKE SAMPLE: 931791

Parameter	Units	92148747001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus	ug/L	8.9 mg/L	2500	12200	133	90-110	M1

MATRIX SPIKE SAMPLE: 931793

Parameter	Units	92148928001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus	ug/L	0.11 mg/L	2500	2710	104	90-110	

SAMPLE DUPLICATE: 931790

Parameter	Units	92148747001 Result	Dup Result	RPD	Max RPD	Qualifiers
Phosphorus	ug/L	8.9 mg/L	8930	0	20	

SAMPLE DUPLICATE: 931792

Parameter	Units	92148928001 Result	Dup Result	RPD	Max RPD	Qualifiers
Phosphorus	ug/L	0.11 mg/L	118	3	20	

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QUALITY CONTROL DATA

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

QC Batch: WETA/14635 Analysis Method: SM 4500-CN-E
QC Batch Method: SM 4500-CN-E Analysis Description: 4500CNE Cyanide, Total
Associated Lab Samples: 92148938014, 92148938015, 92148938018

METHOD BLANK: 929552 Matrix: Water
Associated Lab Samples: 92148938014, 92148938015, 92148938018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	ug/L	ND	10.0	02/28/13 12:02	

LABORATORY CONTROL SAMPLE: 929553

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	100	104	104	80-120	

MATRIX SPIKE SAMPLE: 929554

Parameter	Units	92148914002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	0.0077 mg/L	100	22.3	15	75-125	M1

SAMPLE DUPLICATE: 929555

Parameter	Units	92149138001 Result	Dup Result	RPD	Max RPD	Qualifiers
Cyanide	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

QC Batch: WETA/14617 — Analysis Method: SM 5220D
QC Batch Method: SM 5220D — Analysis Description: 5220D COD
Associated Lab Samples: 92148938018

METHOD BLANK: 928496 — Matrix: Water
Associated Lab Samples: 92148938018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	ug/L	ND	25000	02/27/13 11:00	

LABORATORY CONTROL SAMPLE: 928497

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	ug/L	750000	736000	98	90-110	

MATRIX SPIKE SAMPLE: 928498

Parameter	Units	92148724001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	ug/L	212000 mg/L	15000000	202000000	-7	75-125	M6

MATRIX SPIKE SAMPLE: 928500

Parameter	Units	92148654001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	ug/L	ND	750000	740000	96	75-125	

SAMPLE DUPLICATE: 928499

Parameter	Units	92148865001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	ug/L	2000 mg/L	2000000	0	20	

SAMPLE DUPLICATE: 928501

Parameter	Units	92148783002 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	ug/L	2230 mg/L	2230000	0	20	

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QUALIFIERS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
B2	Oxygen usage is less than 2.0 for all dilutions set. The reported value is an estimated less than value and is calculated for the dilution using the most amount of sample.
D6	The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92148938001	**MW-1**	SM 3030C	MPRP/12673	EPA 6010	ICP/11561
92148938002	**MW-4**	SM 3030C	MPRP/12673	EPA 6010	ICP/11561
92148938003	**MW-9**	SM 3030C	MPRP/12673	EPA 6010	ICP/11561
92148938011	**MW-2**	SM 3030C	MPRP/12673	EPA 6010	ICP/11561
92148938012	**MW-6D**	SM 3030C	MPRP/12673	EPA 6010	ICP/11561
92148938013	**MW-8**	SM 3030C	MPRP/12673	EPA 6010	ICP/11561
92148938014	**MW-7**	SM 3030C	MPRP/12673	EPA 6010	ICP/11561
92148938015	**MW-3**	SM 3030C	MPRP/12673	EPA 6010	ICP/11561
92148938016	**MW-5**	SM 3030C	MPRP/12673	EPA 6010	ICP/11561
92148938017	**MW-6S**	SM 3030C	MPRP/12673	EPA 6010	ICP/11561
92148938018	**LEACHATE**	SM 3030C	MPRP/12673	EPA 6010	ICP/11561
92148938017	**MW-6S**	EPA 7470	MERP/4951	EPA 7470	MERC/4822
92148938018	**LEACHATE**	EPA 7470	MERP/4981	EPA 7470	MERC/4852
92148938016	**MW-5**	EPA 3510	OEXT/20965	EPA 8270	MSSV/7422
92148938001	**MW-1**	EPA 8260	MSV/22120		
92148938002	**MW-4**	EPA 8260	MSV/22120		
92148938003	**MW-9**	EPA 8260	MSV/22120		
92148938004	**P-17**	EPA 8260	MSV/22120		
92148938005	**P-18**	EPA 8260	MSV/22120		
92148938006	**P-18D**	EPA 8260	MSV/22120		
92148938007	**P-19**	EPA 8260	MSV/22120		
92148938008	**P-20S**	EPA 8260	MSV/22120		
92148938009	**P-20D**	EPA 8260	MSV/22120		
92148938010	**P-21**	EPA 8260	MSV/22120		
92148938011	**MW-2**	EPA 8260	MSV/22120		
92148938012	**MW-6D**	EPA 8260	MSV/22120		
92148938013	**MW-8**	EPA 8260	MSV/22120		
92148938014	**MW-7**	EPA 8260	MSV/22120		
92148938015	**MW-3**	EPA 8260	MSV/22120		
92148938016	**MW-5**	EPA 8260	MSV/22120		
92148938017	**MW-6S**	EPA 8260	MSV/22120		
92148938018	**LEACHATE**	EPA 8260	MSV/22120		
92148938012	**MW-6D**	SM 4500-S2D	WET/24323		
92148938013	**MW-8**	SM 4500-S2D	WET/24323		
92148938014	**MW-7**	SM 4500-S2D	WET/24323		
92148938018	**LEACHATE**	SM 5210B	WET/24301	SM 5210B	WET/24304
92148938018	**LEACHATE**	EPA 9040	WET/24408		
92148938018	**LEACHATE**	EPA 300.0	WETA/14614		
92148938018	**LEACHATE**	EPA 353.2	WETA/14586		
92148938018	**LEACHATE**	EPA 365.1	WETA/14669		
92148938014	**MW-7**	SM 4500-CN-E	WETA/14635		
92148938015	**MW-3**	SM 4500-CN-E	WETA/14635		
92148938018	**LEACHATE**	SM 4500-CN-E	WETA/14635		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92148938018	**LEACHATE**	SM 5220D	WETA/14617		

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Pace Analytical www.pacelabs.com	Document Name: **Sample Condition Upon Receipt (SCUR)** Document No.: F-ASV-CS-003-rev.08	**WO# : 92148938** 92148938

Client Name: MES

Where Received: ☐ Huntersville ☑ Asheville ☐ Eden ☐ Raleigh

Courier (Circle): Fed Ex UPS USPS Client Commercial Pace Other

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☑ no

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Circle Thermometer Used: IR Gun#2 -80344039 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

IR Gun Back Up- 111565135

Temp Correction Factor: Add/Subtract 0.1 C

Corrected Cooler Temp.: 1.9/3.3/4.1 C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C **Comments:**

Date and Initials of person examining contents: 2/21/13

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☑Yes ☐No ☐N/A	11.
Sample Labels match COC:	☑Yes ☑No ☐N/A	12. No Date or Time listed on labels
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☑Yes ☐No	Initial when completed
Samples checked for dechlorination:	☑Yes ☐No ☐N/A	14.
Headspace in VOA Vials (>6mm):	☑Yes ☐No ☐N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Jonathan Pfohl Date/Time: 2/25/13

Comments/ Resolution: Did not Rec'd sulfide for MW-2

One vial broke in cooler for P-18

PM informed client of missing Sulfide for MW-2. KG.

SCURF Review: BCM **Date:** 2/21/13 **SRF Review:** JJ **Date:** 2/25/13

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A
Required Client Information:

Company:	Municipal Engineering Services
Address:	P.O. Box 97
	Garner, NC 27529
Email To:	jpfohl@mesco.com
Phone:	919-772-5393 Fax:
Requested Due Date/TAT:	10 Day (Default)

Section B
Required Project Information:

Report To:	Jonathan Pfohl
Copy To:	
Purchase Order No.	
Client Project ID:	Cherokee Lined MSWLF
Container Order Number:	

Section C
Invoice Information:

Attention:	Municipal Engineering Services
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Kevin Godwin
Pace Profile #:	

Regulatory Agency	State / Location
	North Carolina

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

Requested Analysis Filtered (Y/N)

ITEM#	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	VOCs- App I	Metals-App I (3030C (req)		Cyanide		Sulfide			8270 Bis(2-ethylhexyl)phthalate		7470 Mercury		92148938
																			N	Y	N	N	N	N	N	N	N	N	N	N	
1	MW-1	WT	G			2/20/13	8:00		4			1	3						X	X											001
2	MW-2	WT	G				5:40		5			1	3						X	X				X							011
3	MW-3	WT	G				5:00		5			1	3						X	X		X									015
4	MW-4	WT	G				4:20		4			1	3						X	X											002
5	MW-5	WT	G				3:30		6	2		1	3						X	X							X				016
6	MW-6S	WT	G			2/21/13	9:15		4			1	3						X	X									X		017
7	MW-6D	WT	G			2/21/13	8:35		5			2	3						X	X				X							012
8	MW-7	WT	G			2/21/13	8:00		7			2	3						X	X		X		X							014
9	MW-8	WT	G			2/20/13	8:50		5			1	3						X	X				X							013
10	MW-9	WT	G				2:10		4			1	3						X	X											003
11	P-17	WT	G				9:35		3				3						X												004
12	P-18	WT	G				10:05		3				3						X												005

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	MESCO	2/22/13	12:04		2/21/13	12:04	1.4 / 33 / 4.1

SAMPLE CONDITIONS	TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	1.4 / 33 / 4.1	Y	Y	X

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jonathan Pfohl

SIGNATURE of SAMPLER:

DATE Signed: 2/22/13

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A — Required Client Information:

Company:	Municipal Engineering Services
Address:	P.O. Box 97
	Garner, NC 27529
Email To:	jpfohl@mesco.com
Phone:	919-772-5393 Fax
Requested Due Date/TAT:	10 Day (Default)

Section B — Required Project Information:

Report To:	Jonathan Pfohl
Copy To:	
Purchase Order No.	
Client Project ID:	Cherokee Lined MSWLF
Container Order Number:	

Section C — Invoice Information:

Attention:	Municipal Engineering Services
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Kevin Godwin
Pace Profile #:	

Regulatory Agency: State / Location: North Carolina

Requested Analysis Filtered (Y/N)

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	VOCs- App I	Metals-App 2 (303K Rep)	Cyanide	Sulfate	pH	Phosphorus		COD	Nitrate				92148938
																			N	X	N	N	N	N	N	N	N	N	N	
1	P-18D	WT	G			2/20/13	1:30		3				3						X											006
2	P-19	WT	G				9:00		3				3						X											007
3	P-20S	WT	G				11:50		3			1	3						X											008
4	P-20D	WT	G				11:00		3				3						X											009
5	P-21	WT	G				8:30		3				3						X											010
6	LEACHATE	WW	G			2/21/13	10:00					1	3						X	X	X	X	X	X		X	X				018
7																															
8																															
9																															
10																															
11																															
12																															

Matrix codes: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	[signature] MESCO	2/21/13	12:04	[signature]	2/21/13	1204	1.9
							5.3
							4.1

SAMPLE CONDITIONS	TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	1.9	Y	—	X
	5.3			
	4.1			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jonathan Pfohl

SIGNATURE of SAMPLER: [signature] DATE Signed: ~~2/22/13~~ 2/21/13

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Huntersville, NC 28078
(704)875-9092

March 13, 2013

Mr. Jonathan Pfohl
Municipal Engineering Services
PO Box 97
Garner, NC 27529

RE: Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Dear Mr. Pfohl:
Enclosed are the analytical results for sample(s) received by the laboratory on February 21, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

It has been determined that a specific lot number of EPA 6010/3030C prep filters were received from the manufacturer contaminated with Zinc and Antimony. The results for these elements are bias high

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

Sincerely,

Kevin Godwin

kevin.godwin@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

Asheville Certification IDs
2225 Riverside Dr., Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

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SAMPLE SUMMARY

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92148938001	**MW-1**	Water	02/20/13 08:00	02/21/13 12:04
92148938002	**MW-4**	Water	02/20/13 16:20	02/21/13 12:04
92148938003	**MW-9**	Water	02/20/13 14:10	02/21/13 12:04
92148938004	**P-17**	Water	02/20/13 09:35	02/21/13 12:04
92148938005	**P-18**	Water	02/20/13 10:05	02/21/13 12:04
92148938006	**P-18D**	Water	02/20/13 13:30	02/21/13 12:04
92148938007	**P-19**	Water	02/20/13 09:00	02/21/13 12:04
92148938008	**P-20S**	Water	02/20/13 11:50	02/21/13 12:04
92148938009	**P-20D**	Water	02/20/13 11:00	02/21/13 12:04
92148938010	**P-21**	Water	02/20/13 08:30	02/21/13 12:04
92148938011	**MW-2**	Water	02/20/13 17:40	02/21/13 12:04
92148938012	**MW-6D**	Water	02/21/13 08:35	02/21/13 12:04
92148938013	**MW-8**	Water	02/20/13 14:50	02/21/13 12:04
92148938014	**MW-7**	Water	02/21/13 08:00	02/21/13 12:04
92148938015	**MW-3**	Water	02/20/13 17:00	02/21/13 12:04
92148938016	**MW-5**	Water	02/20/13 15:30	02/21/13 12:04
92148938017	**MW-6S**	Water	02/21/13 09:15	02/21/13 12:04
92148938018	**LEACHATE**	Water	02/21/13 10:00	02/21/13 12:04

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SAMPLE ANALYTE COUNT

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92148938001	**MW-1**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	52	PASI-C
92148938002	**MW-4**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	52	PASI-C
92148938003	**MW-9**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	52	PASI-C
92148938004	**P-17**	EPA 8260	MCK	52	PASI-C
92148938005	**P-18**	EPA 8260	MCK	52	PASI-C
92148938006	**P-18D**	EPA 8260	MCK	52	PASI-C
92148938007	**P-19**	EPA 8260	MCK	52	PASI-C
92148938008	**P-20S**	EPA 8260	MCK	52	PASI-C
92148938009	**P-20D**	EPA 8260	MCK	52	PASI-C
92148938010	**P-21**	EPA 8260	MCK	52	PASI-C
92148938011	**MW-2**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	52	PASI-C
92148938012	**MW-6D**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	52	PASI-C
		SM 4500-S2D	AES	1	PASI-A
92148938013	**MW-8**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	52	PASI-C
		SM 4500-S2D	AES	1	PASI-A
92148938014	**MW-7**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	52	PASI-C
		SM 4500-S2D	AES	1	PASI-A
		SM 4500-CN-E	EWS	1	PASI-A
92148938015	**MW-3**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	52	PASI-C
		SM 4500-CN-E	EWS	1	PASI-A
92148938016	**MW-5**	EPA 6010	JMW	15	PASI-A
		EPA 8270	RES	7	PASI-C
		EPA 8260	MCK	52	PASI-C
92148938017	**MW-6S**	EPA 6010	JMW	15	PASI-A
		EPA 7470	DMB	1	PASI-A
		EPA 8260	MCK	52	PASI-C
92148938018	**LEACHATE**	EPA 6010	JMW	16	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8260	MCK	52	PASI-C

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SAMPLE ANALYTE COUNT

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 5210B	AES	1	PASI-A
		EPA 9040	KCS	1	PASI-A
		EPA 300.0	AES	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		EPA 365.1	EWS	1	PASI-A
		SM 4500-CN-E	EWS	1	PASI-A
		SM 5220D	EWS	1	PASI-A

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: MW-1 **Lab ID: 92148938001** Collected: 02/20/13 08:00 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, 3030C	Analytical Method: EPA 6010 Preparation Method: SM 3030C								
Antimony	ND	ug/L	6.0	5.0	1	02/22/13 19:35	02/24/13 18:01	7440-36-0	B
Arsenic	ND	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:01	7440-38-2	
Barium	**12.2J**	ug/L	100	5.0	1	02/22/13 19:35	02/24/13 18:01	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	02/22/13 19:35	02/24/13 18:01	7440-41-7	
Cadmium	**4.0**	ug/L	1.0	1.0	1	02/22/13 19:35	02/24/13 18:01	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:01	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:01	7440-48-4	
Copper	**22.7**	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:01	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:01	7439-92-1	
Nickel	**14.5J**	ug/L	50.0	5.0	1	02/22/13 19:35	02/24/13 18:01	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:01	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:01	7440-22-4	
Thallium	ND	ug/L	5.5	5.5	1	02/22/13 19:35	02/24/13 18:01	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	02/22/13 19:35	02/24/13 18:01	7440-62-2	
Zinc	**47.9**	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:01	7440-66-6	B
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/22/13 22:59	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/22/13 22:59	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/22/13 22:59	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/22/13 22:59	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/22/13 22:59	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/22/13 22:59	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/22/13 22:59	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/22/13 22:59	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/22/13 22:59	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/22/13 22:59	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/22/13 22:59	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/22/13 22:59	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/22/13 22:59	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/22/13 22:59	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/22/13 22:59	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/22/13 22:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/22/13 22:59	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/22/13 22:59	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/22/13 22:59	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/22/13 22:59	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/22/13 22:59	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/22/13 22:59	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/22/13 22:59	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/22/13 22:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/22/13 22:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/22/13 22:59	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/22/13 22:59	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/22/13 22:59	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/22/13 22:59	10061-01-5	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: MW-1 **Lab ID: 92148938001** Collected: 02/20/13 08:00 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/22/13 22:59	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/22/13 22:59	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/22/13 22:59	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/22/13 22:59	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/22/13 22:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/22/13 22:59	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/22/13 22:59	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/22/13 22:59	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/22/13 22:59	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/22/13 22:59	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/22/13 22:59	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/22/13 22:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/22/13 22:59	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/22/13 22:59	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/22/13 22:59	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/22/13 22:59	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/22/13 22:59	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/22/13 22:59	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/22/13 22:59	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		02/22/13 22:59	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		02/22/13 22:59	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		02/22/13 22:59	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		02/22/13 22:59	2037-26-5	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: MW-4 **Lab ID: 92148938002** Collected: 02/20/13 16:20 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, 3030C	Analytical Method: EPA 6010 Preparation Method: SM 3030C								
Antimony	ND	ug/L	6.0	5.0	1	02/22/13 19:35	02/24/13 18:04	7440-36-0	B
Arsenic	ND	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:04	7440-38-2	
Barium	**13.7J**	ug/L	100	5.0	1	02/22/13 19:35	02/24/13 18:04	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	02/22/13 19:35	02/24/13 18:04	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	02/22/13 19:35	02/24/13 18:04	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:04	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:04	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:04	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:04	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	02/22/13 19:35	02/24/13 18:04	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:04	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:04	7440-22-4	
Thallium	ND	ug/L	5.5	5.5	1	02/22/13 19:35	02/24/13 18:04	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	02/22/13 19:35	02/24/13 18:04	7440-62-2	
Zinc	**38.2**	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:04	7440-66-6	B
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/22/13 23:14	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/22/13 23:14	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/22/13 23:14	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/22/13 23:14	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/22/13 23:14	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/22/13 23:14	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/22/13 23:14	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/22/13 23:14	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/22/13 23:14	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/22/13 23:14	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/22/13 23:14	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/22/13 23:14	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/22/13 23:14	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/22/13 23:14	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/22/13 23:14	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/22/13 23:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/22/13 23:14	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/22/13 23:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/22/13 23:14	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/22/13 23:14	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/22/13 23:14	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/22/13 23:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/22/13 23:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/22/13 23:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/22/13 23:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/22/13 23:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/22/13 23:14	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/22/13 23:14	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/22/13 23:14	10061-01-5	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: MW-4 **Lab ID: 92148938002** Collected: 02/20/13 16:20 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/22/13 23:14	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/22/13 23:14	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/22/13 23:14	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/22/13 23:14	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/22/13 23:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/22/13 23:14	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/22/13 23:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/22/13 23:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/22/13 23:14	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/22/13 23:14	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/22/13 23:14	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/22/13 23:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/22/13 23:14	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/22/13 23:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/22/13 23:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/22/13 23:14	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/22/13 23:14	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/22/13 23:14	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/22/13 23:14	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		02/22/13 23:14	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		02/22/13 23:14	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		02/22/13 23:14	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		02/22/13 23:14	2037-26-5	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: MW-9 **Lab ID: 92148938003** Collected: 02/20/13 14:10 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, 3030C	Analytical Method: EPA 6010 Preparation Method: SM 3030C								
Antimony	**5.2J**	ug/L	6.0	5.0	1	02/22/13 19:35	02/24/13 18:07	7440-36-0	B
Arsenic	ND	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:07	7440-38-2	
Barium	**17.6J**	ug/L	100	5.0	1	02/22/13 19:35	02/24/13 18:07	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	02/22/13 19:35	02/24/13 18:07	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	02/22/13 19:35	02/24/13 18:07	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:07	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:07	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:07	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:07	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	02/22/13 19:35	02/24/13 18:07	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:07	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:07	7440-22-4	
Thallium	ND	ug/L	5.5	5.5	1	02/22/13 19:35	02/24/13 18:07	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	02/22/13 19:35	02/24/13 18:07	7440-62-2	
Zinc	**47.9**	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:07	7440-66-6	B
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/22/13 23:30	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/22/13 23:30	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/22/13 23:30	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/22/13 23:30	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/22/13 23:30	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/22/13 23:30	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/22/13 23:30	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/22/13 23:30	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/22/13 23:30	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/22/13 23:30	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/22/13 23:30	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/22/13 23:30	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/22/13 23:30	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/22/13 23:30	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/22/13 23:30	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/22/13 23:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/22/13 23:30	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/22/13 23:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/22/13 23:30	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/22/13 23:30	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/22/13 23:30	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/22/13 23:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/22/13 23:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/22/13 23:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/22/13 23:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/22/13 23:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/22/13 23:30	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/22/13 23:30	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/22/13 23:30	10061-01-5	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: MW-9 **Lab ID: 92148938003** Collected: 02/20/13 14:10 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/22/13 23:30	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/22/13 23:30	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/22/13 23:30	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/22/13 23:30	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/22/13 23:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/22/13 23:30	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/22/13 23:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/22/13 23:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/22/13 23:30	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/22/13 23:30	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/22/13 23:30	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/22/13 23:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/22/13 23:30	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/22/13 23:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/22/13 23:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/22/13 23:30	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/22/13 23:30	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/22/13 23:30	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/22/13 23:30	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130		1		02/22/13 23:30	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		02/22/13 23:30	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		02/22/13 23:30	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		02/22/13 23:30	2037-26-5	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: P-17 **Lab ID: 92148938004** Collected: 02/20/13 09:35 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/22/13 23:46	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/22/13 23:46	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/22/13 23:46	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/22/13 23:46	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/22/13 23:46	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/22/13 23:46	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/22/13 23:46	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/22/13 23:46	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/22/13 23:46	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/22/13 23:46	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/22/13 23:46	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/22/13 23:46	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/22/13 23:46	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/22/13 23:46	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/22/13 23:46	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/22/13 23:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/22/13 23:46	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/22/13 23:46	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/22/13 23:46	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/22/13 23:46	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/22/13 23:46	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/22/13 23:46	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/22/13 23:46	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/22/13 23:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/22/13 23:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/22/13 23:46	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/22/13 23:46	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/22/13 23:46	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/22/13 23:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/22/13 23:46	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/22/13 23:46	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/22/13 23:46	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/22/13 23:46	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/22/13 23:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/22/13 23:46	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/22/13 23:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/22/13 23:46	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/22/13 23:46	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/22/13 23:46	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/22/13 23:46	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/22/13 23:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/22/13 23:46	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/22/13 23:46	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/22/13 23:46	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/22/13 23:46	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/22/13 23:46	108-05-4	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: P-17 **Lab ID: 92148938004** Collected: 02/20/13 09:35 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/22/13 23:46	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/22/13 23:46	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		02/22/13 23:46	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		02/22/13 23:46	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		02/22/13 23:46	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		02/22/13 23:46	2037-26-5	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: P-18 **Lab ID: 92148938005** Collected: 02/20/13 10:05 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/23/13 00:02	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/23/13 00:02	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/23/13 00:02	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/23/13 00:02	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/23/13 00:02	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/23/13 00:02	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/23/13 00:02	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/23/13 00:02	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/23/13 00:02	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/23/13 00:02	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/23/13 00:02	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/23/13 00:02	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/23/13 00:02	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/23/13 00:02	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/23/13 00:02	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/23/13 00:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/23/13 00:02	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/23/13 00:02	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/23/13 00:02	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/23/13 00:02	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/23/13 00:02	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/23/13 00:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/23/13 00:02	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/23/13 00:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/23/13 00:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/23/13 00:02	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/23/13 00:02	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/23/13 00:02	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/23/13 00:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/23/13 00:02	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/23/13 00:02	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/23/13 00:02	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/23/13 00:02	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/23/13 00:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/23/13 00:02	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/23/13 00:02	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/23/13 00:02	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/23/13 00:02	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/23/13 00:02	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/23/13 00:02	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/23/13 00:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/23/13 00:02	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/23/13 00:02	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/23/13 00:02	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/23/13 00:02	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/23/13 00:02	108-05-4	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: P-18 **Lab ID: 92148938005** Collected: 02/20/13 10:05 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/23/13 00:02	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/23/13 00:02	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		02/23/13 00:02	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		02/23/13 00:02	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		02/23/13 00:02	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		02/23/13 00:02	2037-26-5	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: P-18D **Lab ID: 92148938006** Collected: 02/20/13 13:30 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/23/13 00:18	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/23/13 00:18	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/23/13 00:18	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/23/13 00:18	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/23/13 00:18	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/23/13 00:18	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/23/13 00:18	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/23/13 00:18	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/23/13 00:18	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/23/13 00:18	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/23/13 00:18	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/23/13 00:18	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/23/13 00:18	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/23/13 00:18	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/23/13 00:18	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/23/13 00:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/23/13 00:18	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/23/13 00:18	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/23/13 00:18	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/23/13 00:18	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/23/13 00:18	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/23/13 00:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/23/13 00:18	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/23/13 00:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/23/13 00:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/23/13 00:18	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/23/13 00:18	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/23/13 00:18	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/23/13 00:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/23/13 00:18	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/23/13 00:18	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/23/13 00:18	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/23/13 00:18	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/23/13 00:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/23/13 00:18	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/23/13 00:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/23/13 00:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/23/13 00:18	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/23/13 00:18	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/23/13 00:18	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/23/13 00:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/23/13 00:18	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/23/13 00:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/23/13 00:18	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/23/13 00:18	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/23/13 00:18	108-05-4	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: P-18D **Lab ID: 92148938006** Collected: 02/20/13 13:30 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/23/13 00:18	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/23/13 00:18	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		02/23/13 00:18	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		02/23/13 00:18	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		02/23/13 00:18	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		02/23/13 00:18	2037-26-5	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: P-19 **Lab ID: 92148938007** Collected: 02/20/13 09:00 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/23/13 00:34	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/23/13 00:34	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/23/13 00:34	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/23/13 00:34	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/23/13 00:34	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/23/13 00:34	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/23/13 00:34	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/23/13 00:34	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/23/13 00:34	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/23/13 00:34	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/23/13 00:34	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/23/13 00:34	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/23/13 00:34	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/23/13 00:34	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/23/13 00:34	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/23/13 00:34	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/23/13 00:34	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/23/13 00:34	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/23/13 00:34	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/23/13 00:34	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/23/13 00:34	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/23/13 00:34	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/23/13 00:34	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/23/13 00:34	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/23/13 00:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/23/13 00:34	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/23/13 00:34	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/23/13 00:34	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/23/13 00:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/23/13 00:34	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/23/13 00:34	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/23/13 00:34	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/23/13 00:34	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/23/13 00:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/23/13 00:34	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/23/13 00:34	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/23/13 00:34	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/23/13 00:34	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/23/13 00:34	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/23/13 00:34	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/23/13 00:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/23/13 00:34	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/23/13 00:34	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/23/13 00:34	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/23/13 00:34	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/23/13 00:34	108-05-4	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: P-19 **Lab ID: 92148938007** Collected: 02/20/13 09:00 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/23/13 00:34	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/23/13 00:34	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		02/23/13 00:34	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		02/23/13 00:34	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		02/23/13 00:34	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		02/23/13 00:34	2037-26-5	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: P-20S **Lab ID: 92148938008** Collected: 02/20/13 11:50 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/23/13 00:50	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/23/13 00:50	107-13-1	
Benzene	**0.74J**	ug/L	1.0	0.25	1		02/23/13 00:50	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/23/13 00:50	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/23/13 00:50	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/23/13 00:50	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/23/13 00:50	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/23/13 00:50	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/23/13 00:50	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/23/13 00:50	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/23/13 00:50	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/23/13 00:50	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/23/13 00:50	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/23/13 00:50	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/23/13 00:50	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/23/13 00:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/23/13 00:50	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/23/13 00:50	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/23/13 00:50	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/23/13 00:50	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/23/13 00:50	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/23/13 00:50	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/23/13 00:50	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/23/13 00:50	75-35-4	
cis-1,2-Dichloroethene	**13.4**	ug/L	5.0	0.19	1		02/23/13 00:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/23/13 00:50	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/23/13 00:50	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/23/13 00:50	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/23/13 00:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/23/13 00:50	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/23/13 00:50	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/23/13 00:50	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/23/13 00:50	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/23/13 00:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/23/13 00:50	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/23/13 00:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/23/13 00:50	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/23/13 00:50	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/23/13 00:50	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/23/13 00:50	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/23/13 00:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/23/13 00:50	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/23/13 00:50	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/23/13 00:50	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/23/13 00:50	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/23/13 00:50	108-05-4	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: P-20S **Lab ID: 92148938008** Collected: 02/20/13 11:50 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/23/13 00:50	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/23/13 00:50	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		02/23/13 00:50	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		02/23/13 00:50	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		02/23/13 00:50	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		02/23/13 00:50	2037-26-5	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: P-20D **Lab ID: 92148938009** Collected: 02/20/13 11:00 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/23/13 01:06	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/23/13 01:06	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/23/13 01:06	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/23/13 01:06	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/23/13 01:06	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/23/13 01:06	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/23/13 01:06	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/23/13 01:06	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/23/13 01:06	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/23/13 01:06	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/23/13 01:06	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/23/13 01:06	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/23/13 01:06	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/23/13 01:06	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/23/13 01:06	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/23/13 01:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/23/13 01:06	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/23/13 01:06	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/23/13 01:06	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/23/13 01:06	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/23/13 01:06	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/23/13 01:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/23/13 01:06	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/23/13 01:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/23/13 01:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/23/13 01:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/23/13 01:06	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/23/13 01:06	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/23/13 01:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/23/13 01:06	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/23/13 01:06	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/23/13 01:06	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/23/13 01:06	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/23/13 01:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/23/13 01:06	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/23/13 01:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/23/13 01:06	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/23/13 01:06	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/23/13 01:06	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/23/13 01:06	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/23/13 01:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/23/13 01:06	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/23/13 01:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/23/13 01:06	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/23/13 01:06	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/23/13 01:06	108-05-4	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: P-20D **Lab ID: 92148938009** Collected: 02/20/13 11:00 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/23/13 01:06	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/23/13 01:06	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		02/23/13 01:06	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		02/23/13 01:06	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		02/23/13 01:06	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		02/23/13 01:06	2037-26-5	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: P-21 **Lab ID: 92148938010** Collected: 02/20/13 08:30 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/23/13 01:22	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/23/13 01:22	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/23/13 01:22	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/23/13 01:22	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/23/13 01:22	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/23/13 01:22	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/23/13 01:22	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/23/13 01:22	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/23/13 01:22	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/23/13 01:22	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/23/13 01:22	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/23/13 01:22	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/23/13 01:22	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/23/13 01:22	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/23/13 01:22	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/23/13 01:22	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/23/13 01:22	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/23/13 01:22	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/23/13 01:22	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/23/13 01:22	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/23/13 01:22	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/23/13 01:22	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/23/13 01:22	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/23/13 01:22	75-35-4	
cis-1,2-Dichloroethene	**1.6J**	ug/L	5.0	0.19	1		02/23/13 01:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/23/13 01:22	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/23/13 01:22	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/23/13 01:22	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/23/13 01:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/23/13 01:22	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/23/13 01:22	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/23/13 01:22	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/23/13 01:22	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/23/13 01:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/23/13 01:22	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/23/13 01:22	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/23/13 01:22	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/23/13 01:22	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/23/13 01:22	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/23/13 01:22	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/23/13 01:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/23/13 01:22	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/23/13 01:22	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/23/13 01:22	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/23/13 01:22	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/23/13 01:22	108-05-4	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: P-21 **Lab ID: 92148938010** Collected: 02/20/13 08:30 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/23/13 01:22	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/23/13 01:22	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		02/23/13 01:22	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		02/23/13 01:22	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		02/23/13 01:22	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		02/23/13 01:22	2037-26-5	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: MW-2 **Lab ID: 92148938011** Collected: 02/20/13 17:40 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, 3030C	Analytical Method: EPA 6010 Preparation Method: SM 3030C								
Antimony	**5.4J**	ug/L	6.0	5.0	1	02/22/13 19:35	02/24/13 18:10	7440-36-0	B
Arsenic	ND	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:10	7440-38-2	
Barium	**23.2J**	ug/L	100	5.0	1	02/22/13 19:35	02/24/13 18:10	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	02/22/13 19:35	02/24/13 18:10	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	02/22/13 19:35	02/24/13 18:10	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:10	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:10	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:10	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:10	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	02/22/13 19:35	02/24/13 18:10	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:10	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:10	7440-22-4	
Thallium	ND	ug/L	5.5	5.5	1	02/22/13 19:35	02/24/13 18:10	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	02/22/13 19:35	02/24/13 18:10	7440-62-2	
Zinc	**53.7**	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:10	7440-66-6	B
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/23/13 01:38	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/23/13 01:38	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/23/13 01:38	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/23/13 01:38	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/23/13 01:38	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/23/13 01:38	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/23/13 01:38	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/23/13 01:38	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/23/13 01:38	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/23/13 01:38	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/23/13 01:38	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/23/13 01:38	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/23/13 01:38	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/23/13 01:38	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/23/13 01:38	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/23/13 01:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/23/13 01:38	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/23/13 01:38	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/23/13 01:38	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/23/13 01:38	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/23/13 01:38	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/23/13 01:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/23/13 01:38	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/23/13 01:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/23/13 01:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/23/13 01:38	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/23/13 01:38	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/23/13 01:38	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/23/13 01:38	10061-01-5	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: MW-2 **Lab ID: 92148938011** Collected: 02/20/13 17:40 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/23/13 01:38	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/23/13 01:38	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/23/13 01:38	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/23/13 01:38	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/23/13 01:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/23/13 01:38	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/23/13 01:38	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/23/13 01:38	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/23/13 01:38	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/23/13 01:38	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/23/13 01:38	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/23/13 01:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/23/13 01:38	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/23/13 01:38	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/23/13 01:38	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/23/13 01:38	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/23/13 01:38	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/23/13 01:38	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/23/13 01:38	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		02/23/13 01:38	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		02/23/13 01:38	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		02/23/13 01:38	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		02/23/13 01:38	2037-26-5	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: MW-6D **Lab ID: 92148938012** Collected: 02/21/13 08:35 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, 3030C	Analytical Method: EPA 6010 Preparation Method: SM 3030C								
Antimony	ND	ug/L	6.0	5.0	1	02/22/13 19:35	02/24/13 18:13	7440-36-0	B
Arsenic	ND	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:13	7440-38-2	
Barium	**8.2J**	ug/L	100	5.0	1	02/22/13 19:35	02/24/13 18:13	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	02/22/13 19:35	02/24/13 18:13	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	02/22/13 19:35	02/24/13 18:13	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:13	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:13	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:13	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:13	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	02/22/13 19:35	02/24/13 18:13	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:13	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:13	7440-22-4	
Thallium	ND	ug/L	5.5	5.5	1	02/22/13 19:35	02/24/13 18:13	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	02/22/13 19:35	02/24/13 18:13	7440-62-2	
Zinc	**23.8**	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:13	7440-66-6	B
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/23/13 01:54	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/23/13 01:54	107-13-1	
Benzene	**0.45J**	ug/L	1.0	0.25	1		02/23/13 01:54	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/23/13 01:54	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/23/13 01:54	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/23/13 01:54	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/23/13 01:54	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/23/13 01:54	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/23/13 01:54	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/23/13 01:54	56-23-5	
Chlorobenzene	**2.6J**	ug/L	3.0	0.23	1		02/23/13 01:54	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/23/13 01:54	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/23/13 01:54	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/23/13 01:54	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/23/13 01:54	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/23/13 01:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/23/13 01:54	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/23/13 01:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/23/13 01:54	95-50-1	
1,4-Dichlorobenzene	**10.2**	ug/L	1.0	0.33	1		02/23/13 01:54	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/23/13 01:54	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/23/13 01:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/23/13 01:54	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/23/13 01:54	75-35-4	
cis-1,2-Dichloroethene	**9.6**	ug/L	5.0	0.19	1		02/23/13 01:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/23/13 01:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/23/13 01:54	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/23/13 01:54	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/23/13 01:54	10061-01-5	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: MW-6D **Lab ID: 92148938012** Collected: 02/21/13 08:35 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/23/13 01:54	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/23/13 01:54	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/23/13 01:54	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/23/13 01:54	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/23/13 01:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/23/13 01:54	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/23/13 01:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/23/13 01:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/23/13 01:54	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/23/13 01:54	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/23/13 01:54	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/23/13 01:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/23/13 01:54	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/23/13 01:54	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/23/13 01:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/23/13 01:54	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/23/13 01:54	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/23/13 01:54	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/23/13 01:54	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		02/23/13 01:54	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		02/23/13 01:54	1868-53-7	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		02/23/13 01:54	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		02/23/13 01:54	2037-26-5	
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		02/26/13 13:30	18496-25-8	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: MW-8 **Lab ID: 92148938013** Collected: 02/20/13 14:50 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, 3030C	Analytical Method: EPA 6010 Preparation Method: SM 3030C								
Antimony	ND	ug/L	6.0	5.0	1	02/22/13 19:35	02/24/13 18:16	7440-36-0	B
Arsenic	ND	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:16	7440-38-2	
Barium	ND	ug/L	100	5.0	1	02/22/13 19:35	02/24/13 18:16	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	02/22/13 19:35	02/24/13 18:16	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	02/22/13 19:35	02/24/13 18:16	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:16	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:16	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:16	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:16	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	02/22/13 19:35	02/24/13 18:16	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:16	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:16	7440-22-4	
Thallium	ND	ug/L	5.5	5.5	1	02/22/13 19:35	02/24/13 18:16	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	02/22/13 19:35	02/24/13 18:16	7440-62-2	
Zinc	**28.1**	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:16	7440-66-6	B
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/23/13 02:10	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/23/13 02:10	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/23/13 02:10	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/23/13 02:10	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/23/13 02:10	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/23/13 02:10	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/23/13 02:10	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/23/13 02:10	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/23/13 02:10	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/23/13 02:10	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/23/13 02:10	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/23/13 02:10	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/23/13 02:10	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/23/13 02:10	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/23/13 02:10	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/23/13 02:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/23/13 02:10	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/23/13 02:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/23/13 02:10	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/23/13 02:10	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/23/13 02:10	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/23/13 02:10	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/23/13 02:10	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/23/13 02:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/23/13 02:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/23/13 02:10	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/23/13 02:10	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/23/13 02:10	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/23/13 02:10	10061-01-5	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: MW-8 **Lab ID: 92148938013** Collected: 02/20/13 14:50 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/23/13 02:10	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/23/13 02:10	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/23/13 02:10	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/23/13 02:10	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/23/13 02:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/23/13 02:10	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/23/13 02:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/23/13 02:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/23/13 02:10	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/23/13 02:10	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/23/13 02:10	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/23/13 02:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/23/13 02:10	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/23/13 02:10	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/23/13 02:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/23/13 02:10	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/23/13 02:10	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/23/13 02:10	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/23/13 02:10	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		02/23/13 02:10	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		02/23/13 02:10	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		02/23/13 02:10	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		02/23/13 02:10	2037-26-5	
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		02/26/13 13:30	18496-25-8	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: MW-7 **Lab ID: 92148938014** Collected: 02/21/13 08:00 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, 3030C	Analytical Method: EPA 6010 Preparation Method: SM 3030C								
Antimony	ND	ug/L	6.0	5.0	1	02/22/13 19:35	02/24/13 18:28	7440-36-0	B
Arsenic	ND	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:28	7440-38-2	
Barium	**40.4J**	ug/L	100	5.0	1	02/22/13 19:35	02/24/13 18:28	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	02/22/13 19:35	02/24/13 18:28	7440-41-7	
Cadmium	**2.0**	ug/L	1.0	1.0	1	02/22/13 19:35	02/24/13 18:28	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:28	7440-47-3	
Cobalt	**32.3**	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:28	7440-48-4	
Copper	**21.6**	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:28	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:28	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	02/22/13 19:35	02/24/13 18:28	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:28	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:28	7440-22-4	
Thallium	ND	ug/L	5.5	5.5	1	02/22/13 19:35	02/24/13 18:28	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	02/22/13 19:35	02/24/13 18:28	7440-62-2	
Zinc	**23.5**	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:28	7440-66-6	B
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/23/13 02:26	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/23/13 02:26	107-13-1	
Benzene	**3.9**	ug/L	1.0	0.25	1		02/23/13 02:26	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/23/13 02:26	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/23/13 02:26	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/23/13 02:26	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/23/13 02:26	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/23/13 02:26	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/23/13 02:26	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/23/13 02:26	56-23-5	
Chlorobenzene	**0.59J**	ug/L	3.0	0.23	1		02/23/13 02:26	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/23/13 02:26	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/23/13 02:26	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/23/13 02:26	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/23/13 02:26	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/23/13 02:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/23/13 02:26	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/23/13 02:26	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/23/13 02:26	95-50-1	
1,4-Dichlorobenzene	**0.56J**	ug/L	1.0	0.33	1		02/23/13 02:26	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/23/13 02:26	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/23/13 02:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/23/13 02:26	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/23/13 02:26	75-35-4	
cis-1,2-Dichloroethene	**31.4**	ug/L	5.0	0.19	1		02/23/13 02:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/23/13 02:26	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/23/13 02:26	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/23/13 02:26	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/23/13 02:26	10061-01-5	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: MW-7 **Lab ID: 92148938014** Collected: 02/21/13 08:00 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/23/13 02:26	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/23/13 02:26	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/23/13 02:26	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/23/13 02:26	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/23/13 02:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/23/13 02:26	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/23/13 02:26	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/23/13 02:26	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/23/13 02:26	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/23/13 02:26	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/23/13 02:26	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/23/13 02:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/23/13 02:26	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/23/13 02:26	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/23/13 02:26	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/23/13 02:26	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/23/13 02:26	108-05-4	
Vinyl chloride	**2.1**	ug/L	1.0	0.62	1		02/23/13 02:26	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/23/13 02:26	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		02/23/13 02:26	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		02/23/13 02:26	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		02/23/13 02:26	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		02/23/13 02:26	2037-26-5	
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	**184J**	ug/L	1000	100	1		02/26/13 13:30	18496-25-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E								
Cyanide	**5.2J**	ug/L	10.0	5.0	1		02/28/13 12:15	57-12-5	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: MW-3 **Lab ID: 92148938015** Collected: 02/20/13 17:00 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, 3030C	Analytical Method: EPA 6010 Preparation Method: SM 3030C								
Antimony	**5.2J**	ug/L	6.0	5.0	1	02/22/13 19:35	02/24/13 18:32	7440-36-0	B
Arsenic	ND	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:32	7440-38-2	
Barium	**36.9J**	ug/L	100	5.0	1	02/22/13 19:35	02/24/13 18:32	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	02/22/13 19:35	02/24/13 18:32	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	02/22/13 19:35	02/24/13 18:32	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:32	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:32	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:32	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:32	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	02/22/13 19:35	02/24/13 18:32	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:32	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:32	7440-22-4	
Thallium	ND	ug/L	5.5	5.5	1	02/22/13 19:35	02/24/13 18:32	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	02/22/13 19:35	02/24/13 18:32	7440-62-2	
Zinc	**78.0**	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:32	7440-66-6	B
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/23/13 02:42	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/23/13 02:42	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/23/13 02:42	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/23/13 02:42	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/23/13 02:42	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/23/13 02:42	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/23/13 02:42	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/23/13 02:42	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/23/13 02:42	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/23/13 02:42	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/23/13 02:42	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/23/13 02:42	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/23/13 02:42	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/23/13 02:42	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/23/13 02:42	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/23/13 02:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/23/13 02:42	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/23/13 02:42	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/23/13 02:42	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/23/13 02:42	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/23/13 02:42	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/23/13 02:42	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/23/13 02:42	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/23/13 02:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/23/13 02:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/23/13 02:42	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/23/13 02:42	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/23/13 02:42	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/23/13 02:42	10061-01-5	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: MW-3 **Lab ID: 92148938015** Collected: 02/20/13 17:00 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/23/13 02:42	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/23/13 02:42	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/23/13 02:42	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/23/13 02:42	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/23/13 02:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/23/13 02:42	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/23/13 02:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/23/13 02:42	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/23/13 02:42	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/23/13 02:42	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/23/13 02:42	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/23/13 02:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/23/13 02:42	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/23/13 02:42	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/23/13 02:42	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/23/13 02:42	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/23/13 02:42	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/23/13 02:42	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/23/13 02:42	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		02/23/13 02:42	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		02/23/13 02:42	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		02/23/13 02:42	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		02/23/13 02:42	2037-26-5	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E								
Cyanide	ND	ug/L	10.0	5.0	1		02/28/13 12:16	57-12-5	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: MW-5 **Lab ID: 92148938016** Collected: 02/20/13 15:30 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, 3030C	Analytical Method: EPA 6010 Preparation Method: SM 3030C								
Antimony	ND	ug/L	6.0	5.0	1	02/22/13 19:35	02/24/13 18:35	7440-36-0	B
Arsenic	ND	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:35	7440-38-2	
Barium	**10.8J**	ug/L	100	5.0	1	02/22/13 19:35	02/24/13 18:35	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	02/22/13 19:35	02/24/13 18:35	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	02/22/13 19:35	02/24/13 18:35	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:35	7440-47-3	
Cobalt	**6.7J**	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:35	7440-48-4	
Copper	**7.3J**	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:35	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:35	7439-92-1	
Nickel	**41.2J**	ug/L	50.0	5.0	1	02/22/13 19:35	02/24/13 18:35	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:35	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:35	7440-22-4	
Thallium	ND	ug/L	5.5	5.5	1	02/22/13 19:35	02/24/13 18:35	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	02/22/13 19:35	02/24/13 18:35	7440-62-2	
Zinc	**118**	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:35	7440-66-6	B
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
bis(2-Ethylhexyl)phthalate	ND	ug/L	15.0	0.79	1	02/26/13 09:30	03/04/13 03:50	117-81-7	
Surrogates									
Nitrobenzene-d5 (S)	66	%	21-110		1	02/26/13 09:30	03/04/13 03:50	4165-60-0	
2-Fluorobiphenyl (S)	71	%	27-110		1	02/26/13 09:30	03/04/13 03:50	321-60-8	
Terphenyl-d14 (S)	48	%	31-107		1	02/26/13 09:30	03/04/13 03:50	1718-51-0	
Phenol-d6 (S)	17	%	10-110		1	02/26/13 09:30	03/04/13 03:50	13127-88-3	
2-Fluorophenol (S)	29	%	12-110		1	02/26/13 09:30	03/04/13 03:50	367-12-4	
2,4,6-Tribromophenol (S)	52	%	27-110		1	02/26/13 09:30	03/04/13 03:50	118-79-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/23/13 02:57	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/23/13 02:57	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/23/13 02:57	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/23/13 02:57	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/23/13 02:57	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/23/13 02:57	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/23/13 02:57	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/23/13 02:57	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/23/13 02:57	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/23/13 02:57	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/23/13 02:57	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/23/13 02:57	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/23/13 02:57	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/23/13 02:57	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/23/13 02:57	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/23/13 02:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/23/13 02:57	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/23/13 02:57	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/23/13 02:57	95-50-1	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: MW-5 **Lab ID: 92148938016** Collected: 02/20/13 15:30 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/23/13 02:57	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/23/13 02:57	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/23/13 02:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/23/13 02:57	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/23/13 02:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/23/13 02:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/23/13 02:57	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/23/13 02:57	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/23/13 02:57	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/23/13 02:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/23/13 02:57	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/23/13 02:57	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/23/13 02:57	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/23/13 02:57	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/23/13 02:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/23/13 02:57	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/23/13 02:57	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/23/13 02:57	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/23/13 02:57	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/23/13 02:57	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/23/13 02:57	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/23/13 02:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/23/13 02:57	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/23/13 02:57	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/23/13 02:57	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/23/13 02:57	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/23/13 02:57	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/23/13 02:57	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/23/13 02:57	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		02/23/13 02:57	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		02/23/13 02:57	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		02/23/13 02:57	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		02/23/13 02:57	2037-26-5	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: MW-6S **Lab ID: 92148938017** Collected: 02/21/13 09:15 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, 3030C	Analytical Method: EPA 6010 Preparation Method: SM 3030C								
Antimony	ND	ug/L	6.0	5.0	1	02/22/13 19:35	02/24/13 18:38	7440-36-0	B
Arsenic	ND	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:38	7440-38-2	
Barium	**141**	ug/L	100	5.0	1	02/22/13 19:35	02/24/13 18:38	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	02/22/13 19:35	02/24/13 18:38	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	02/22/13 19:35	02/24/13 18:38	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:38	7440-47-3	
Cobalt	**29.1**	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:38	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:38	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:38	7439-92-1	
Nickel	**9.0J**	ug/L	50.0	5.0	1	02/22/13 19:35	02/24/13 18:38	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:38	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:38	7440-22-4	
Thallium	ND	ug/L	5.5	5.5	1	02/22/13 19:35	02/24/13 18:38	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	02/22/13 19:35	02/24/13 18:38	7440-62-2	
Zinc	**27.3**	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:38	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	02/25/13 17:45	02/28/13 15:17	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/23/13 03:13	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/23/13 03:13	107-13-1	
Benzene	**1.9**	ug/L	1.0	0.25	1		02/23/13 03:13	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/23/13 03:13	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/23/13 03:13	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/23/13 03:13	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/23/13 03:13	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/23/13 03:13	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/23/13 03:13	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/23/13 03:13	56-23-5	
Chlorobenzene	**3.0J**	ug/L	3.0	0.23	1		02/23/13 03:13	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/23/13 03:13	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/23/13 03:13	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/23/13 03:13	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/23/13 03:13	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/23/13 03:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/23/13 03:13	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/23/13 03:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/23/13 03:13	95-50-1	
1,4-Dichlorobenzene	**13.8**	ug/L	1.0	0.33	1		02/23/13 03:13	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/23/13 03:13	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/23/13 03:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/23/13 03:13	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/23/13 03:13	75-35-4	
cis-1,2-Dichloroethene	**6.1**	ug/L	5.0	0.19	1		02/23/13 03:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/23/13 03:13	156-60-5	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: MW-6S **Lab ID: 92148938017** Collected: 02/21/13 09:15 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/23/13 03:13	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/23/13 03:13	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/23/13 03:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/23/13 03:13	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/23/13 03:13	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/23/13 03:13	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/23/13 03:13	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/23/13 03:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/23/13 03:13	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/23/13 03:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/23/13 03:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/23/13 03:13	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/23/13 03:13	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/23/13 03:13	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/23/13 03:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/23/13 03:13	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/23/13 03:13	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/23/13 03:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/23/13 03:13	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/23/13 03:13	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/23/13 03:13	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/23/13 03:13	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		02/23/13 03:13	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		02/23/13 03:13	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		02/23/13 03:13	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		02/23/13 03:13	2037-26-5	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: LEACHATE **Lab ID: 92148938018** Collected: 02/21/13 10:00 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, 3030C	Analytical Method: EPA 6010 Preparation Method: SM 3030C								
Antimony	ND	ug/L	6.0	5.0	1	02/22/13 19:35	02/24/13 18:41	7440-36-0	B
Arsenic	ND	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:41	7440-38-2	
Barium	**401**	ug/L	100	5.0	1	02/22/13 19:35	02/24/13 18:41	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	02/22/13 19:35	02/24/13 18:41	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	02/22/13 19:35	02/24/13 18:41	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:41	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:41	7440-48-4	
Copper	**7.9J**	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:41	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:41	7439-92-1	
Nickel	**7.1J**	ug/L	50.0	5.0	1	02/22/13 19:35	02/24/13 18:41	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:41	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:41	7440-22-4	
Thallium	ND	ug/L	5.5	5.5	1	02/22/13 19:35	02/24/13 18:41	7440-28-0	
Tin	ND	ug/L	100	5.0	1	02/22/13 19:35	02/24/13 18:41	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	02/22/13 19:35	02/24/13 18:41	7440-62-2	
Zinc	**26.3**	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:41	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	03/07/13 18:20	03/08/13 12:52	7439-97-6	M1
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/23/13 03:29	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/23/13 03:29	107-13-1	
Benzene	**4.9**	ug/L	1.0	0.25	1		02/23/13 03:29	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/23/13 03:29	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/23/13 03:29	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/23/13 03:29	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/23/13 03:29	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/23/13 03:29	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/23/13 03:29	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/23/13 03:29	56-23-5	
Chlorobenzene	**5.3**	ug/L	3.0	0.23	1		02/23/13 03:29	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/23/13 03:29	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/23/13 03:29	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/23/13 03:29	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/23/13 03:29	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/23/13 03:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/23/13 03:29	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/23/13 03:29	74-95-3	
1,2-Dichlorobenzene	**0.30J**	ug/L	5.0	0.30	1		02/23/13 03:29	95-50-1	
1,4-Dichlorobenzene	**4.0**	ug/L	1.0	0.33	1		02/23/13 03:29	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/23/13 03:29	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/23/13 03:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/23/13 03:29	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/23/13 03:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/23/13 03:29	156-59-2	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: LEACHATE **Lab ID: 92148938018** Collected: 02/21/13 10:00 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/23/13 03:29	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/23/13 03:29	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/23/13 03:29	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/23/13 03:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/23/13 03:29	10061-02-6	
Ethylbenzene	**1.1**	ug/L	1.0	0.30	1		02/23/13 03:29	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/23/13 03:29	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/23/13 03:29	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/23/13 03:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/23/13 03:29	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/23/13 03:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/23/13 03:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/23/13 03:29	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/23/13 03:29	127-18-4	
Toluene	**0.49J**	ug/L	1.0	0.26	1		02/23/13 03:29	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/23/13 03:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/23/13 03:29	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/23/13 03:29	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/23/13 03:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/23/13 03:29	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/23/13 03:29	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/23/13 03:29	75-01-4	
Xylene (Total)	**2.1J**	ug/L	5.0	0.66	1		02/23/13 03:29	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		02/23/13 03:29	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		02/23/13 03:29	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		02/23/13 03:29	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		02/23/13 03:29	2037-26-5	
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	**10200**	ug/L	2000	2000	1	02/22/13 17:30	02/27/13 13:50		B2
9040 pH	Analytical Method: EPA 9040								
pH	**7.3**	Std. Units	0.10	0.10	1		03/04/13 16:05		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	ND	ug/L	250000	2000	1		02/26/13 17:06	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	ug/L	10000	20.0	1		02/22/13 01:10		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1								
Phosphorus	**79.5**	ug/L	50.0	50.0	1		03/05/13 13:23	7723-14-0	

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ANALYTICAL RESULTS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Sample: LEACHATE **Lab ID: 92148938018** Collected: 02/21/13 10:00 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E								
Cyanide	ND	ug/L	10.0	5.0	1		02/28/13 12:17	57-12-5	
5220D COD	Analytical Method: SM 5220D								
Chemical Oxygen Demand	**114000**	ug/L	25000	25000	1		02/27/13 11:00		

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QUALITY CONTROL DATA

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

QC Batch: MERP/4951
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Associated Lab Samples: 92148938017

METHOD BLANK: 928077
Matrix: Water
Associated Lab Samples: 92148938017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	02/28/13 14:36	

LABORATORY CONTROL SAMPLE: 928078

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.3	90	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 928079 928080

Parameter	Units	92148941004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.3	2.2	92	90	75-125	2	25	

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QUALITY CONTROL DATA

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

QC Batch: MERP/4981
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Associated Lab Samples: 92148938018

METHOD BLANK: 934231
Matrix: Water
Associated Lab Samples: 92148938018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	03/08/13 12:47	

LABORATORY CONTROL SAMPLE: 934232

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.1	86	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 934233 934234

Parameter	Units	92148938018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	2.5	2.5	0.75	0.80	30	32	75-125	6	25	M1

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QUALITY CONTROL DATA

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

QC Batch: MPRP/12673 Analysis Method: EPA 6010
QC Batch Method: SM 3030C Analysis Description: 6010 MET 3030C
Associated Lab Samples: 92148938001, 92148938002, 92148938003, 92148938011, 92148938012, 92148938013, 92148938014, 92148938015, 92148938016, 92148938017, 92148938018

METHOD BLANK: 927599 Matrix: Water
Associated Lab Samples: 92148938001, 92148938002, 92148938003, 92148938011, 92148938012, 92148938013, 92148938014, 92148938015, 92148938016, 92148938017, 92148938018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	5.8J	6.0	02/24/13 17:27	B
Arsenic	ug/L	ND	10.0	02/24/13 17:27	
Barium	ug/L	ND	100	02/24/13 17:27	
Beryllium	ug/L	ND	1.0	02/24/13 17:27	
Cadmium	ug/L	ND	1.0	02/24/13 17:27	
Chromium	ug/L	ND	10.0	02/24/13 17:27	
Cobalt	ug/L	ND	10.0	02/24/13 17:27	
Copper	ug/L	ND	10.0	02/24/13 17:27	
Lead	ug/L	ND	10.0	02/24/13 17:27	
Nickel	ug/L	ND	50.0	02/24/13 17:27	
Selenium	ug/L	ND	10.0	02/24/13 17:27	
Silver	ug/L	ND	10.0	02/24/13 17:27	
Thallium	ug/L	ND	5.5	02/24/13 17:27	
Tin	ug/L	ND	100	02/24/13 17:27	
Vanadium	ug/L	ND	25.0	02/24/13 17:27	
Zinc	ug/L	21.5	10.0	02/24/13 17:27	B

LABORATORY CONTROL SAMPLE: 927600

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	492	98	80-120	
Arsenic	ug/L	500	488	98	80-120	
Barium	ug/L	500	462	92	80-120	
Beryllium	ug/L	500	468	94	80-120	
Cadmium	ug/L	500	493	99	80-120	
Chromium	ug/L	500	465	93	80-120	
Cobalt	ug/L	500	469	94	80-120	
Copper	ug/L	500	471	94	80-120	
Lead	ug/L	500	470	94	80-120	
Nickel	ug/L	500	480	96	80-120	
Selenium	ug/L	500	542	108	80-120	
Silver	ug/L	250	237	95	80-120	
Thallium	ug/L	500	457	91	80-120	
Tin	ug/L	500	478	96	80-120	
Vanadium	ug/L	500	464	93	80-120	
Zinc	ug/L	500	537	107	80-120	

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(704)875-9092

QUALITY CONTROL DATA

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

MATRIX SPIKE SAMPLE: 927601

Parameter	Units	92148937001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	6.8	500	475	94	75-125	
Arsenic	ug/L	ND	500	473	94	75-125	
Barium	ug/L	6.2J	500	464	92	75-125	
Beryllium	ug/L	ND	500	463	93	75-125	
Cadmium	ug/L	ND	500	475	95	75-125	
Chromium	ug/L	ND	500	453	91	75-125	
Cobalt	ug/L	ND	500	456	91	75-125	
Copper	ug/L	ND	500	460	92	75-125	
Lead	ug/L	ND	500	457	91	75-125	
Nickel	ug/L	ND	500	467	93	75-125	
Selenium	ug/L	ND	500	515	102	75-125	
Silver	ug/L	ND	250	231	92	75-125	
Thallium	ug/L	ND	500	460	91	75-125	
Tin	ug/L	ND	500	468	93	75-125	
Vanadium	ug/L	ND	500	452	90	75-125	
Zinc	ug/L	30.0	500	509	96	75-125	

SAMPLE DUPLICATE: 927602

Parameter	Units	92148937002 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	5.1J	6.7	27	20	D6
Arsenic	ug/L	ND	ND		20	
Barium	ug/L	6.0J	5.9J	2	20	
Beryllium	ug/L	ND	ND		20	
Cadmium	ug/L	ND	ND		20	
Chromium	ug/L	ND	ND		20	
Cobalt	ug/L	ND	ND		20	
Copper	ug/L	ND	ND		20	
Lead	ug/L	ND	ND		20	
Nickel	ug/L	ND	ND		20	
Selenium	ug/L	ND	ND		20	
Silver	ug/L	ND	ND		20	
Thallium	ug/L	ND	ND		20	
Tin	ug/L	ND	ND		20	
Vanadium	ug/L	ND	ND		20	
Zinc	ug/L	25.8	27.5	6	20	

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QUALITY CONTROL DATA

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

QC Batch: MSV/22120 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 92148938001, 92148938002, 92148938003, 92148938004, 92148938005, 92148938006, 92148938007, 92148938008, 92148938009, 92148938010, 92148938011, 92148938012, 92148938013, 92148938014, 92148938015, 92148938016, 92148938017, 92148938018

METHOD BLANK: 927303 Matrix: Water
Associated Lab Samples: 92148938001, 92148938002, 92148938003, 92148938004, 92148938005, 92148938006, 92148938007, 92148938008, 92148938009, 92148938010, 92148938011, 92148938012, 92148938013, 92148938014, 92148938015, 92148938016, 92148938017, 92148938018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	02/22/13 22:11	
1,1,1-Trichloroethane	ug/L	ND	1.0	02/22/13 22:11	
1,1,2,2-Tetrachloroethane	ug/L	ND	3.0	02/22/13 22:11	
1,1,2-Trichloroethane	ug/L	ND	1.0	02/22/13 22:11	
1,1-Dichloroethane	ug/L	ND	5.0	02/22/13 22:11	
1,1-Dichloroethene	ug/L	ND	5.0	02/22/13 22:11	
1,2,3-Trichloropropane	ug/L	ND	1.0	02/22/13 22:11	
1,2-Dibromo-3-chloropropane	ug/L	ND	13.0	02/22/13 22:11	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	02/22/13 22:11	
1,2-Dichlorobenzene	ug/L	ND	5.0	02/22/13 22:11	
1,2-Dichloroethane	ug/L	ND	1.0	02/22/13 22:11	
1,2-Dichloropropane	ug/L	ND	1.0	02/22/13 22:11	
1,3-Dichloropropane	ug/L	ND	1.0	02/22/13 22:11	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/22/13 22:11	
2-Butanone (MEK)	ug/L	ND	100	02/22/13 22:11	
2-Hexanone	ug/L	ND	50.0	02/22/13 22:11	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	02/22/13 22:11	
Acetone	ug/L	ND	100	02/22/13 22:11	
Acrylonitrile	ug/L	ND	200	02/22/13 22:11	
Benzene	ug/L	ND	1.0	02/22/13 22:11	
Bromochloromethane	ug/L	ND	3.0	02/22/13 22:11	
Bromodichloromethane	ug/L	ND	1.0	02/22/13 22:11	
Bromoform	ug/L	ND	3.0	02/22/13 22:11	
Bromomethane	ug/L	ND	10.0	02/22/13 22:11	
Carbon disulfide	ug/L	ND	100	02/22/13 22:11	
Carbon tetrachloride	ug/L	ND	1.0	02/22/13 22:11	
Chlorobenzene	ug/L	ND	3.0	02/22/13 22:11	
Chloroethane	ug/L	ND	10.0	02/22/13 22:11	
Chloroform	ug/L	ND	5.0	02/22/13 22:11	
Chloromethane	ug/L	ND	1.0	02/22/13 22:11	
cis-1,2-Dichloroethene	ug/L	ND	5.0	02/22/13 22:11	
cis-1,3-Dichloropropene	ug/L	ND	1.0	02/22/13 22:11	
Dibromochloromethane	ug/L	ND	3.0	02/22/13 22:11	
Dibromomethane	ug/L	ND	10.0	02/22/13 22:11	
Ethylbenzene	ug/L	ND	1.0	02/22/13 22:11	
Iodomethane	ug/L	ND	10.0	02/22/13 22:11	
Methylene Chloride	ug/L	ND	1.0	02/22/13 22:11	
Styrene	ug/L	ND	1.0	02/22/13 22:11	
Tetrachloroethene	ug/L	ND	1.0	02/22/13 22:11	

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QUALITY CONTROL DATA

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

METHOD BLANK: 927303 Matrix: Water

Associated Lab Samples: 92148938001, 92148938002, 92148938003, 92148938004, 92148938005, 92148938006, 92148938007, 92148938008, 92148938009, 92148938010, 92148938011, 92148938012, 92148938013, 92148938014, 92148938015, 92148938016, 92148938017, 92148938018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Toluene	ug/L	ND	1.0	02/22/13 22:11	
trans-1,2-Dichloroethene	ug/L	ND	5.0	02/22/13 22:11	
trans-1,3-Dichloropropene	ug/L	ND	1.0	02/22/13 22:11	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	02/22/13 22:11	
Trichloroethene	ug/L	ND	1.0	02/22/13 22:11	
Trichlorofluoromethane	ug/L	ND	1.0	02/22/13 22:11	
Vinyl acetate	ug/L	ND	50.0	02/22/13 22:11	
Vinyl chloride	ug/L	ND	1.0	02/22/13 22:11	
Xylene (Total)	ug/L	ND	5.0	02/22/13 22:11	
1,2-Dichloroethane-d4 (S)	%	98	70-130	02/22/13 22:11	
4-Bromofluorobenzene (S)	%	99	70-130	02/22/13 22:11	
Dibromofluoromethane (S)	%	107	70-130	02/22/13 22:11	
Toluene-d8 (S)	%	98	70-130	02/22/13 22:11	

LABORATORY CONTROL SAMPLE: 927304

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	58.5	117	70-130	
1,1,1-Trichloroethane	ug/L	50	54.5	109	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	55.2	110	70-130	
1,1,2-Trichloroethane	ug/L	50	53.0	106	70-130	
1,1-Dichloroethane	ug/L	50	53.8	108	70-130	
1,1-Dichloroethene	ug/L	50	50.3	101	70-132	
1,2,3-Trichloropropane	ug/L	50	54.9	110	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	58.6	117	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	57.5	115	70-130	
1,2-Dichlorobenzene	ug/L	50	55.1	110	70-130	
1,2-Dichloroethane	ug/L	50	53.3	107	70-130	
1,2-Dichloropropane	ug/L	50	53.8	108	70-130	
1,3-Dichloropropane	ug/L	50	55.6	111	70-130	
1,4-Dichlorobenzene	ug/L	50	54.3	109	70-130	
2-Butanone (MEK)	ug/L	100	111	111	70-145	
2-Hexanone	ug/L	100	104	104	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	100	99.1J	99	70-140	
Acetone	ug/L	100	106	106	50-175	
Acrylonitrile	ug/L	250	266	106	70-143	
Benzene	ug/L	50	54.5	109	70-130	
Bromochloromethane	ug/L	50	54.5	109	70-130	
Bromodichloromethane	ug/L	50	54.6	109	70-130	
Bromoform	ug/L	50	50.6	101	70-130	
Bromomethane	ug/L	50	57.9	116	54-130	
Carbon disulfide	ug/L	50	47.8J	96	70-131	
Carbon tetrachloride	ug/L	50	56.1	112	70-132	
Chlorobenzene	ug/L	50	55.3	111	70-130	

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QUALITY CONTROL DATA

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

LABORATORY CONTROL SAMPLE: 927304

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloroethane	ug/L	50	44.2	88	64-134	
Chloroform	ug/L	50	52.6	105	70-130	
Chloromethane	ug/L	50	40.3	81	64-130	
cis-1,2-Dichloroethene	ug/L	50	53.1	106	70-131	
cis-1,3-Dichloropropene	ug/L	50	55.5	111	70-130	
Dibromochloromethane	ug/L	50	58.6	117	70-130	
Dibromomethane	ug/L	50	55.1	110	70-131	
Ethylbenzene	ug/L	50	55.2	110	70-130	
Iodomethane	ug/L	100	86.8	87	49-180	
Methylene Chloride	ug/L	50	49.8	100	63-130	
Styrene	ug/L	50	56.1	112	70-130	
Tetrachloroethene	ug/L	50	52.6	105	70-130	
Toluene	ug/L	50	54.0	108	70-130	
trans-1,2-Dichloroethene	ug/L	50	49.0	98	70-130	
trans-1,3-Dichloropropene	ug/L	50	54.6	109	70-132	
trans-1,4-Dichloro-2-butene	ug/L	50	41.4J	83	70-141	
Trichloroethene	ug/L	50	49.3	99	70-130	
Trichlorofluoromethane	ug/L	50	49.0	98	62-133	
Vinyl acetate	ug/L	100	114	114	66-157	
Vinyl chloride	ug/L	50	50.1	100	69-130	
Xylene (Total)	ug/L	150	165	110	70-130	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			99	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 927305 927306

Parameter	Units	92148938017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	55.9	54.9	112	110	70-166	2	30	
Benzene	ug/L	1.9	50	50	54.6	52.0	105	100	70-148	5	30	
Chlorobenzene	ug/L	3.0J	50	50	65.1	61.9	124	118	70-146	5	30	
Toluene	ug/L	ND	50	50	58.8	54.3	118	109	70-155	8	30	
Trichloroethene	ug/L	ND	50	50	55.1	52.6	110	105	69-151	5	30	
1,2-Dichloroethane-d4 (S)	%						94	97	70-130			
4-Bromofluorobenzene (S)	%						100	101	70-130			
Dibromofluoromethane (S)	%						104	105	70-130			
Toluene-d8 (S)	%						97	97	70-130			

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QUALITY CONTROL DATA

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

QC Batch: OEXT/20965
QC Batch Method: EPA 3510
Analysis Method: EPA 8270
Analysis Description: 8270 Water MSSV
Associated Lab Samples: 92148938016

METHOD BLANK: 928509
Matrix: Water
Associated Lab Samples: 92148938016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
bis(2-Ethylhexyl)phthalate	ug/L	ND	15.0	03/03/13 19:47	
2,4,6-Tribromophenol (S)	%	63	27-110	03/03/13 19:47	
2-Fluorobiphenyl (S)	%	67	27-110	03/03/13 19:47	
2-Fluorophenol (S)	%	34	12-110	03/03/13 19:47	
Nitrobenzene-d5 (S)	%	67	21-110	03/03/13 19:47	
Phenol-d6 (S)	%	23	10-110	03/03/13 19:47	
Terphenyl-d14 (S)	%	83	31-107	03/03/13 19:47	

LABORATORY CONTROL SAMPLE: 928510

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
bis(2-Ethylhexyl)phthalate	ug/L	50	39.8	80	16-123	
2,4,6-Tribromophenol (S)	%			81	27-110	
2-Fluorobiphenyl (S)	%			66	27-110	
2-Fluorophenol (S)	%			37	12-110	
Nitrobenzene-d5 (S)	%			54	21-110	
Phenol-d6 (S)	%			23	10-110	
Terphenyl-d14 (S)	%			74	31-107	

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QUALITY CONTROL DATA

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

QC Batch: WET/24323 — Analysis Method: SM 4500-S2D
QC Batch Method: SM 4500-S2D — Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 92148938012, 92148938013, 92148938014

METHOD BLANK: 928450 — Matrix: Water
Associated Lab Samples: 92148938012, 92148938013, 92148938014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	ug/L	ND	1000	02/26/13 13:30	

LABORATORY CONTROL SAMPLE: 928451

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	ug/L	500	511J	102	90-110	

MATRIX SPIKE SAMPLE: 928452

Parameter	Units	92148551002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	ug/L	ND	500	611J	122	75-125	

SAMPLE DUPLICATE: 928453

Parameter	Units	92148551002 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

QC Batch: WET/24301
QC Batch Method: SM 5210B
Analysis Method: SM 5210B
Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 92148938018

METHOD BLANK: 927496
Matrix: Water
Associated Lab Samples: 92148938018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	ug/L	ND	2000	02/27/13 13:50	

LABORATORY CONTROL SAMPLE: 927497

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	ug/L	198000	207000	105	84.5-115.4	

SAMPLE DUPLICATE: 927498

Parameter	Units	92148951002 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	ug/L	<2.0 mg/L	ND		20	

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QUALITY CONTROL DATA

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

QC Batch: WET/24408
QC Batch Method: EPA 9040
Analysis Method: EPA 9040
Analysis Description: 9040 pH
Associated Lab Samples: 92148938018

SAMPLE DUPLICATE: 931907

Parameter	Units	92149087001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH	Std. Units	7.9	7.9	0	20	H6

SAMPLE DUPLICATE: 931908

Parameter	Units	92149125002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH	Std. Units	5.7	5.7	0	20	H6

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QUALITY CONTROL DATA

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

QC Batch: WETA/14614
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Associated Lab Samples: 92148938018

METHOD BLANK: 928463
Matrix: Water
Associated Lab Samples: 92148938018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	ug/L	ND	250000	02/26/13 13:16	

LABORATORY CONTROL SAMPLE: 928464

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	20000	20600J	103	90-110	

MATRIX SPIKE SAMPLE: 928465

Parameter	Units	92148783002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	4920 mg/L	20000	4740000J	-928	90-110	M6

SAMPLE DUPLICATE: 928466

Parameter	Units	92148783002 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfate	ug/L	4920 mg/L	4540000J	8	20	

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QUALITY CONTROL DATA

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

QC Batch: WETA/14586
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 92148938018

METHOD BLANK: 927039
Matrix: Water
Associated Lab Samples: 92148938018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	ug/L	ND	10000	02/22/13 00:30	

LABORATORY CONTROL SAMPLE: 927040

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	ug/L	2500	2430J	97	90-110	

MATRIX SPIKE SAMPLE: 927041

Parameter	Units	92148470006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	ug/L	0.25 mg/L	2500	2550J	92	90-110	

MATRIX SPIKE SAMPLE: 927043

Parameter	Units	92148470007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	ug/L	0.59 mg/L	2500	2890J	92	90-110	

SAMPLE DUPLICATE: 927042

Parameter	Units	92148470006 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	ug/L	0.25 mg/L	247J	0	20	

SAMPLE DUPLICATE: 927044

Parameter	Units	92148470007 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	ug/L	0.59 mg/L	588J	1	20	

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Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

QC Batch: WETA/14669
QC Batch Method: EPA 365.1
Analysis Method: EPA 365.1
Analysis Description: 365.1 Phosphorus, Total
Associated Lab Samples: 92148938018

METHOD BLANK: 931788
Matrix: Water
Associated Lab Samples: 92148938018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	ug/L	ND	50.0	03/05/13 13:08	

LABORATORY CONTROL SAMPLE: 931789

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	ug/L	2500	2560	102	90-110	

MATRIX SPIKE SAMPLE: 931791

Parameter	Units	92148747001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus	ug/L	8.9 mg/L	2500	12200	133	90-110	M1

MATRIX SPIKE SAMPLE: 931793

Parameter	Units	92148928001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus	ug/L	0.11 mg/L	2500	2710	104	90-110	

SAMPLE DUPLICATE: 931790

Parameter	Units	92148747001 Result	Dup Result	RPD	Max RPD	Qualifiers
Phosphorus	ug/L	8.9 mg/L	8930	0	20	

SAMPLE DUPLICATE: 931792

Parameter	Units	92148928001 Result	Dup Result	RPD	Max RPD	Qualifiers
Phosphorus	ug/L	0.11 mg/L	118	3	20	

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QUALITY CONTROL DATA

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

QC Batch: WETA/14635 Analysis Method: SM 4500-CN-E
QC Batch Method: SM 4500-CN-E Analysis Description: 4500CNE Cyanide, Total
Associated Lab Samples: 92148938014, 92148938015, 92148938018

METHOD BLANK: 929552 Matrix: Water
Associated Lab Samples: 92148938014, 92148938015, 92148938018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	ug/L	ND	10.0	02/28/13 12:02	

LABORATORY CONTROL SAMPLE: 929553

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	100	104	104	80-120	

MATRIX SPIKE SAMPLE: 929554

Parameter	Units	92148914002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	0.0077 mg/L	100	22.3	15	75-125	M1

SAMPLE DUPLICATE: 929555

Parameter	Units	92149138001 Result	Dup Result	RPD	Max RPD	Qualifiers
Cyanide	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

QC Batch: WETA/14617
QC Batch Method: SM 5220D
Analysis Method: SM 5220D
Analysis Description: 5220D COD
Associated Lab Samples: 92148938018

METHOD BLANK: 928496
Matrix: Water
Associated Lab Samples: 92148938018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	ug/L	ND	25000	02/27/13 11:00	

LABORATORY CONTROL SAMPLE: 928497

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	ug/L	750000	736000	98	90-110	

MATRIX SPIKE SAMPLE: 928498

Parameter	Units	92148724001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	ug/L	212000 mg/L	15000000	202000000	-7	75-125	M6

MATRIX SPIKE SAMPLE: 928500

Parameter	Units	92148654001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	ug/L	ND	750000	740000	96	75-125	

SAMPLE DUPLICATE: 928499

Parameter	Units	92148865001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	ug/L	2000 mg/L	2000000	0	20	

SAMPLE DUPLICATE: 928501

Parameter	Units	92148783002 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	ug/L	2230 mg/L	2230000	0	20	

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QUALIFIERS

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
B2	Oxygen usage is less than 2.0 for all dilutions set. The reported value is an estimated less than value and is calculated for the dilution using the most amount of sample.
D6	The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92148938001	**MW-1**	SM 3030C	MPRP/12673	EPA 6010	ICP/11561
92148938002	**MW-4**	SM 3030C	MPRP/12673	EPA 6010	ICP/11561
92148938003	**MW-9**	SM 3030C	MPRP/12673	EPA 6010	ICP/11561
92148938011	**MW-2**	SM 3030C	MPRP/12673	EPA 6010	ICP/11561
92148938012	**MW-6D**	SM 3030C	MPRP/12673	EPA 6010	ICP/11561
92148938013	**MW-8**	SM 3030C	MPRP/12673	EPA 6010	ICP/11561
92148938014	**MW-7**	SM 3030C	MPRP/12673	EPA 6010	ICP/11561
92148938015	**MW-3**	SM 3030C	MPRP/12673	EPA 6010	ICP/11561
92148938016	**MW-5**	SM 3030C	MPRP/12673	EPA 6010	ICP/11561
92148938017	**MW-6S**	SM 3030C	MPRP/12673	EPA 6010	ICP/11561
92148938018	**LEACHATE**	SM 3030C	MPRP/12673	EPA 6010	ICP/11561
92148938017	**MW-6S**	EPA 7470	MERP/4951	EPA 7470	MERC/4822
92148938018	**LEACHATE**	EPA 7470	MERP/4981	EPA 7470	MERC/4852
92148938016	**MW-5**	EPA 3510	OEXT/20965	EPA 8270	MSSV/7422
92148938001	**MW-1**	EPA 8260	MSV/22120		
92148938002	**MW-4**	EPA 8260	MSV/22120		
92148938003	**MW-9**	EPA 8260	MSV/22120		
92148938004	**P-17**	EPA 8260	MSV/22120		
92148938005	**P-18**	EPA 8260	MSV/22120		
92148938006	**P-18D**	EPA 8260	MSV/22120		
92148938007	**P-19**	EPA 8260	MSV/22120		
92148938008	**P-20S**	EPA 8260	MSV/22120		
92148938009	**P-20D**	EPA 8260	MSV/22120		
92148938010	**P-21**	EPA 8260	MSV/22120		
92148938011	**MW-2**	EPA 8260	MSV/22120		
92148938012	**MW-6D**	EPA 8260	MSV/22120		
92148938013	**MW-8**	EPA 8260	MSV/22120		
92148938014	**MW-7**	EPA 8260	MSV/22120		
92148938015	**MW-3**	EPA 8260	MSV/22120		
92148938016	**MW-5**	EPA 8260	MSV/22120		
92148938017	**MW-6S**	EPA 8260	MSV/22120		
92148938018	**LEACHATE**	EPA 8260	MSV/22120		
92148938012	**MW-6D**	SM 4500-S2D	WET/24323		
92148938013	**MW-8**	SM 4500-S2D	WET/24323		
92148938014	**MW-7**	SM 4500-S2D	WET/24323		
92148938018	**LEACHATE**	SM 5210B	WET/24301	SM 5210B	WET/24304
92148938018	**LEACHATE**	EPA 9040	WET/24408		
92148938018	**LEACHATE**	EPA 300.0	WETA/14614		
92148938018	**LEACHATE**	EPA 353.2	WETA/14586		
92148938018	**LEACHATE**	EPA 365.1	WETA/14669		
92148938014	**MW-7**	SM 4500-CN-E	WETA/14635		
92148938015	**MW-3**	SM 4500-CN-E	WETA/14635		
92148938018	**LEACHATE**	SM 4500-CN-E	WETA/14635		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Cherokee Lined MSWLF
Pace Project No.: 92148938

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92148938018	**LEACHATE**	SM 5220D	WETA/14617		

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Pace Analytical www.pacelabs.com	Document Name: **Sample Condition Upon Receipt (SCUR)** Document No.: F-ASV-CS-003-rev.08	**WO# : 92148938** 92148938

Client Name: MES

Where Received: ☐ Huntersville ☑ Asheville ☐ Eden ☐ Raleigh

Courier (Circle): Fed Ex UPS USPS Client Commercial Pace Other

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☑ no

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Circle Thermometer Used: IR Gun#2 -80344039 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

IR Gun Back Up- 111565135

Temp Correction Factor: Add/Subtract 0.1 C

Corrected Cooler Temp.: 1.9/3.3/4.1 C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C **Comments:**

Date and Initials of person examining contents: 2/21/13

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☑Yes ☐No ☐N/A	11.
Sample Labels match COC:	☑Yes ☑No ☐N/A	12. No Date or Time listed on labels
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☑Yes ☐No	Initial when completed
Samples checked for dechlorination:	☑Yes ☐No ☐N/A	14.
Headspace in VOA Vials (>6mm):	☑Yes ☐No ☐N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Jonathan Pfohl Date/Time: 2/25/13

Comments/ Resolution: Did not Rec'd sulfide for MW-2

One vial broke in cooler for P-18

PM informed client of missing Sulfide for MW-2. KG.

SCURF Review: BCM **Date:** 2/21/13 **SRF Review:** JJ **Date:** 2/25/13

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A
Required Client Information:

Company:	Municipal Engineering Services
Address:	P.O. Box 97
	Garner, NC 27529
Email To:	jpfohl@mesco.com
Phone:	919-772-5393 Fax:
Requested Due Date/TAT:	10 Day (Default)

Section B
Required Project Information:

Report To:	Jonathan Pfohl
Copy To:	
Purchase Order No.	
Client Project ID:	Cherokee Lined MSWLF
Container Order Number:	

Section C
Invoice Information:

Attention:	Municipal Engineering Services
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Kevin Godwin
Pace Profile #:	

Regulatory Agency	State / Location
	North Carolina

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

Requested Analysis Filtered (Y/N)

ITEM#	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	VOCs- App I	Metals-App I (3030C (req)		Cyanide		Sulfide			8270 Bis(2-ethylhexyl)phthalate		7470 Mercury		92148938
																			N	Y	N	N	N	N	N	N	N	N	N	N	
1	MW-1	WT	G			2/20/13	8:00		4			1	3						X	X											001
2	MW-2	WT	G				5:40		5			1	3						X	X				X							011
3	MW-3	WT	G				5:00		5			1	3						X	X		X									015
4	MW-4	WT	G				4:20		4			1	3						X	X											002
5	MW-5	WT	G				3:30		6	2		1	3						X	X							X				016
6	MW-6S	WT	G			2/21/13	9:15		4			1	3						X	X									X		017
7	MW-6D	WT	G			2/21/13	8:35		5			2	3						X	X				X							012
8	MW-7	WT	G			2/21/13	8:00		7			2	3						X	X		X		X							014
9	MW-8	WT	G			2/20/13	8:50		5			1	3						X	X				X							013
10	MW-9	WT	G				2:10		4			1	3						X	X											003
11	P-17	WT	G				9:35		3				3						X												004
12	P-18	WT	G				10:05		3				3						X												005

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	MESCO	2/22/13	12:04		2/21/13	12:04	1.4 / 33 / 4.1

SAMPLE CONDITIONS	TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	1.4 / 33 / 4.1	Y	Y	X

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jonathan Pfohl

SIGNATURE of SAMPLER:

DATE Signed: 2/22/13

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A — Required Client Information:

Company:	Municipal Engineering Services
Address:	P.O. Box 97
	Garner, NC 27529
Email To:	jpfohl@mesco.com
Phone:	919-772-5393 Fax
Requested Due Date/TAT:	10 Day (Default)

Section B — Required Project Information:

Report To:	Jonathan Pfohl
Copy To:	
Purchase Order No.	
Client Project ID:	Cherokee Lined MSWLF
Container Order Number:	

Section C — Invoice Information:

Attention:	Municipal Engineering Services
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Kevin Godwin
Pace Profile #:	

Regulatory Agency: State / Location: North Carolina

Requested Analysis Filtered (Y/N)

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	VOCs- App I	Metals-App 2 (303K Rep)	Cyanide	Sulfate	pH	Phosphorus		COD	Nitrate				92148938
																			N	X	N	N	N	N	N	N	N	N	N	
1	P-18D	WT	G			2/20/13	1:30		3				3						X											006
2	P-19	WT	G				9:00		3				3						X											007
3	P-20S	WT	G				11:50		3			1	3						X											008
4	P-20D	WT	G				11:00		3				3						X											009
5	P-21	WT	G				8:30		3				3						X											010
6	LEACHATE	WW	G			2/21/13	10:00					1	3						X	X	X	X	X	X		X	X				018
7																															
8																															
9																															
10																															
11																															
12																															

Matrix codes: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	[signature] MESCO	2/21/13	12:04	[signature]	2/21/13	1204	1.9
							5.3
							4.1

SAMPLE CONDITIONS	TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	1.9	Y	—	X
	5.3			
	4.1			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jonathan Pfohl

SIGNATURE of SAMPLER: [signature] DATE Signed: ~~2/22/13~~ 2/21/13

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February 28, 2013

Mr. Jonathan Pfohl
Municipal Engineering Services
PO Box 97
Garner, NC 27529

RE: Project: Cherokee MSWLF SWs
Pace Project No.: 92148937

Dear Mr. Pfohl:
Enclosed are the analytical results for sample(s) received by the laboratory on February 21, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

It has been determined that a specific lot number of EPA 6010/3030C prep filters were received from the manufacturer contaminated with Zinc and Antimony. The results for these elements are bias high

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

Sincerely,

Kevin Godwin

kevin.godwin@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: Cherokee MSWLF SWs
Pace Project No.: 92148937

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

Asheville Certification IDs
2225 Riverside Dr., Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

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Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: Cherokee MSWLF SWs
Pace Project No.: 92148937

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92148937001	**SW-1**	Water	02/20/13 12:35	02/21/13 12:04
92148937002	**SW-2**	Water	02/20/13 13:50	02/21/13 12:04
92148937003	**SW-4**	Water	02/20/13 18:00	02/21/13 12:04
92148937004	**SW-5**	Water	02/20/13 18:15	02/21/13 12:04

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SAMPLE ANALYTE COUNT

Project: Cherokee MSWLF SWs
Pace Project No.: 92148937

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92148937001	**SW-1**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	52	PASI-C
92148937002	**SW-2**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	52	PASI-C
92148937003	**SW-4**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	52	PASI-C
92148937004	**SW-5**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	52	PASI-C

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ANALYTICAL RESULTS

Project: Cherokee MSWLF SWs
Pace Project No.: 92148937

Sample: SW-1 **Lab ID: 92148937001** Collected: 02/20/13 12:35 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, 3030C	Analytical Method: EPA 6010 Preparation Method: SM 3030C								
Antimony	**6.8**	ug/L	6.0	5.0	1	02/22/13 19:35	02/24/13 17:33	7440-36-0	B
Arsenic	ND	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 17:33	7440-38-2	
Barium	**6.2J**	ug/L	100	5.0	1	02/22/13 19:35	02/24/13 17:33	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	02/22/13 19:35	02/24/13 17:33	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	02/22/13 19:35	02/24/13 17:33	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 17:33	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 17:33	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 17:33	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 17:33	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	02/22/13 19:35	02/24/13 17:33	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 17:33	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 17:33	7440-22-4	
Thallium	ND	ug/L	5.5	5.5	1	02/22/13 19:35	02/24/13 17:33	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	02/22/13 19:35	02/24/13 17:33	7440-62-2	
Zinc	**30.0**	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 17:33	7440-66-6	B
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/23/13 05:21	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/23/13 05:21	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/23/13 05:21	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/23/13 05:21	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/23/13 05:21	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/23/13 05:21	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/23/13 05:21	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/23/13 05:21	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/23/13 05:21	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/23/13 05:21	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/23/13 05:21	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/23/13 05:21	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/23/13 05:21	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/23/13 05:21	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/23/13 05:21	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/23/13 05:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/23/13 05:21	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/23/13 05:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/23/13 05:21	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/23/13 05:21	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/23/13 05:21	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/23/13 05:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/23/13 05:21	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/23/13 05:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/23/13 05:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/23/13 05:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/23/13 05:21	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/23/13 05:21	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/23/13 05:21	10061-01-5	

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ANALYTICAL RESULTS

Project: Cherokee MSWLF SWs
Pace Project No.: 92148937

Sample: SW-1 **Lab ID: 92148937001** Collected: 02/20/13 12:35 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/23/13 05:21	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/23/13 05:21	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/23/13 05:21	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/23/13 05:21	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/23/13 05:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/23/13 05:21	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/23/13 05:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/23/13 05:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/23/13 05:21	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/23/13 05:21	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/23/13 05:21	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/23/13 05:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/23/13 05:21	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/23/13 05:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/23/13 05:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/23/13 05:21	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/23/13 05:21	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/23/13 05:21	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/23/13 05:21	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		02/23/13 05:21	460-00-4	
Dibromofluoromethane (S)	110	%	70-130		1		02/23/13 05:21	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		02/23/13 05:21	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		02/23/13 05:21	2037-26-5	

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ANALYTICAL RESULTS

Project: Cherokee MSWLF SWs
Pace Project No.: 92148937

Sample: SW-2 **Lab ID: 92148937002** Collected: 02/20/13 13:50 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, 3030C	Analytical Method: EPA 6010 Preparation Method: SM 3030C								
Antimony	**5.1J**	ug/L	6.0	5.0	1	02/22/13 19:35	02/24/13 17:48	7440-36-0	B
Arsenic	ND	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 17:48	7440-38-2	
Barium	**6.0J**	ug/L	100	5.0	1	02/22/13 19:35	02/24/13 17:48	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	02/22/13 19:35	02/24/13 17:48	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	02/22/13 19:35	02/24/13 17:48	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 17:48	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 17:48	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 17:48	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 17:48	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	02/22/13 19:35	02/24/13 17:48	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 17:48	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 17:48	7440-22-4	
Thallium	ND	ug/L	5.5	5.5	1	02/22/13 19:35	02/24/13 17:48	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	02/22/13 19:35	02/24/13 17:48	7440-62-2	
Zinc	**25.8**	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 17:48	7440-66-6	B
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/23/13 05:37	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/23/13 05:37	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/23/13 05:37	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/23/13 05:37	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/23/13 05:37	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/23/13 05:37	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/23/13 05:37	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/23/13 05:37	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/23/13 05:37	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/23/13 05:37	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/23/13 05:37	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/23/13 05:37	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/23/13 05:37	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/23/13 05:37	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/23/13 05:37	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/23/13 05:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/23/13 05:37	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/23/13 05:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/23/13 05:37	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/23/13 05:37	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/23/13 05:37	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/23/13 05:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/23/13 05:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/23/13 05:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/23/13 05:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/23/13 05:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/23/13 05:37	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/23/13 05:37	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/23/13 05:37	10061-01-5	

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ANALYTICAL RESULTS

Project: Cherokee MSWLF SWs
Pace Project No.: 92148937

Sample: SW-2 **Lab ID: 92148937002** Collected: 02/20/13 13:50 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/23/13 05:37	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/23/13 05:37	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/23/13 05:37	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/23/13 05:37	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/23/13 05:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/23/13 05:37	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/23/13 05:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/23/13 05:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/23/13 05:37	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/23/13 05:37	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/23/13 05:37	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/23/13 05:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/23/13 05:37	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/23/13 05:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/23/13 05:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/23/13 05:37	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/23/13 05:37	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/23/13 05:37	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/23/13 05:37	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		02/23/13 05:37	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		02/23/13 05:37	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		02/23/13 05:37	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		02/23/13 05:37	2037-26-5	

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ANALYTICAL RESULTS

Project: Cherokee MSWLF SWs
Pace Project No.: 92148937

Sample: SW-4 **Lab ID: 92148937003** Collected: 02/20/13 18:00 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, 3030C	Analytical Method: EPA 6010 Preparation Method: SM 3030C								
Antimony	ND	ug/L	6.0	5.0	1	02/22/13 19:35	02/24/13 17:54	7440-36-0	B
Arsenic	ND	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 17:54	7440-38-2	
Barium	**5.8J**	ug/L	100	5.0	1	02/22/13 19:35	02/24/13 17:54	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	02/22/13 19:35	02/24/13 17:54	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	02/22/13 19:35	02/24/13 17:54	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 17:54	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 17:54	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 17:54	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 17:54	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	02/22/13 19:35	02/24/13 17:54	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 17:54	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 17:54	7440-22-4	
Thallium	ND	ug/L	5.5	5.5	1	02/22/13 19:35	02/24/13 17:54	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	02/22/13 19:35	02/24/13 17:54	7440-62-2	
Zinc	**27.2**	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 17:54	7440-66-6	B
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/23/13 05:53	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/23/13 05:53	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/23/13 05:53	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/23/13 05:53	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/23/13 05:53	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/23/13 05:53	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/23/13 05:53	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/23/13 05:53	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/23/13 05:53	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/23/13 05:53	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/23/13 05:53	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/23/13 05:53	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/23/13 05:53	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/23/13 05:53	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/23/13 05:53	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/23/13 05:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/23/13 05:53	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/23/13 05:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/23/13 05:53	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/23/13 05:53	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/23/13 05:53	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/23/13 05:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/23/13 05:53	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/23/13 05:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/23/13 05:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/23/13 05:53	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/23/13 05:53	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/23/13 05:53	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/23/13 05:53	10061-01-5	

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ANALYTICAL RESULTS

Project: Cherokee MSWLF SWs
Pace Project No.: 92148937

Sample: SW-4 **Lab ID: 92148937003** Collected: 02/20/13 18:00 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/23/13 05:53	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/23/13 05:53	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/23/13 05:53	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/23/13 05:53	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/23/13 05:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/23/13 05:53	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/23/13 05:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/23/13 05:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/23/13 05:53	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/23/13 05:53	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/23/13 05:53	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/23/13 05:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/23/13 05:53	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/23/13 05:53	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/23/13 05:53	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/23/13 05:53	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/23/13 05:53	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/23/13 05:53	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/23/13 05:53	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		02/23/13 05:53	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		02/23/13 05:53	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		02/23/13 05:53	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		02/23/13 05:53	2037-26-5	

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ANALYTICAL RESULTS

Project: Cherokee MSWLF SWs
Pace Project No.: 92148937

Sample: SW-5 **Lab ID: 92148937004** Collected: 02/20/13 18:15 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, 3030C	Analytical Method: EPA 6010 Preparation Method: SM 3030C								
Antimony	**5.7J**	ug/L	6.0	5.0	1	02/22/13 19:35	02/24/13 17:58	7440-36-0	B
Arsenic	ND	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 17:58	7440-38-2	
Barium	**5.9J**	ug/L	100	5.0	1	02/22/13 19:35	02/24/13 17:58	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	02/22/13 19:35	02/24/13 17:58	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	02/22/13 19:35	02/24/13 17:58	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 17:58	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 17:58	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 17:58	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 17:58	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	02/22/13 19:35	02/24/13 17:58	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 17:58	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 17:58	7440-22-4	
Thallium	ND	ug/L	5.5	5.5	1	02/22/13 19:35	02/24/13 17:58	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	02/22/13 19:35	02/24/13 17:58	7440-62-2	
Zinc	**40.0**	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 17:58	7440-66-6	B
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/23/13 06:09	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/23/13 06:09	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/23/13 06:09	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/23/13 06:09	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/23/13 06:09	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/23/13 06:09	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/23/13 06:09	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/23/13 06:09	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/23/13 06:09	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/23/13 06:09	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/23/13 06:09	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/23/13 06:09	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/23/13 06:09	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/23/13 06:09	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/23/13 06:09	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/23/13 06:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/23/13 06:09	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/23/13 06:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/23/13 06:09	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/23/13 06:09	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/23/13 06:09	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/23/13 06:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/23/13 06:09	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/23/13 06:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/23/13 06:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/23/13 06:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/23/13 06:09	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/23/13 06:09	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/23/13 06:09	10061-01-5	

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ANALYTICAL RESULTS

Project: Cherokee MSWLF SWs
Pace Project No.: 92148937

Sample: SW-5 **Lab ID: 92148937004** Collected: 02/20/13 18:15 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/23/13 06:09	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/23/13 06:09	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/23/13 06:09	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/23/13 06:09	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/23/13 06:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/23/13 06:09	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/23/13 06:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/23/13 06:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/23/13 06:09	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/23/13 06:09	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/23/13 06:09	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/23/13 06:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/23/13 06:09	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/23/13 06:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/23/13 06:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/23/13 06:09	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/23/13 06:09	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/23/13 06:09	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/23/13 06:09	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		02/23/13 06:09	460-00-4	
Dibromofluoromethane (S)	110	%	70-130		1		02/23/13 06:09	1868-53-7	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		02/23/13 06:09	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		02/23/13 06:09	2037-26-5	

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QUALITY CONTROL DATA

Project: Cherokee MSWLF SWs
Pace Project No.: 92148937

QC Batch: MPRP/12673 Analysis Method: EPA 6010
QC Batch Method: SM 3030C Analysis Description: 6010 MET 3030C
Associated Lab Samples: 92148937001, 92148937002, 92148937003, 92148937004

METHOD BLANK: 927599 Matrix: Water
Associated Lab Samples: 92148937001, 92148937002, 92148937003, 92148937004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	5.8J	6.0	02/24/13 17:27	B
Arsenic	ug/L	ND	10.0	02/24/13 17:27	
Barium	ug/L	ND	100	02/24/13 17:27	
Beryllium	ug/L	ND	1.0	02/24/13 17:27	
Cadmium	ug/L	ND	1.0	02/24/13 17:27	
Chromium	ug/L	ND	10.0	02/24/13 17:27	
Cobalt	ug/L	ND	10.0	02/24/13 17:27	
Copper	ug/L	ND	10.0	02/24/13 17:27	
Lead	ug/L	ND	10.0	02/24/13 17:27	
Nickel	ug/L	ND	50.0	02/24/13 17:27	
Selenium	ug/L	ND	10.0	02/24/13 17:27	
Silver	ug/L	ND	10.0	02/24/13 17:27	
Thallium	ug/L	ND	5.5	02/24/13 17:27	
Vanadium	ug/L	ND	25.0	02/24/13 17:27	
Zinc	ug/L	21.5	10.0	02/24/13 17:27	B

LABORATORY CONTROL SAMPLE: 927600

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	492	98	80-120	
Arsenic	ug/L	500	488	98	80-120	
Barium	ug/L	500	462	92	80-120	
Beryllium	ug/L	500	468	94	80-120	
Cadmium	ug/L	500	493	99	80-120	
Chromium	ug/L	500	465	93	80-120	
Cobalt	ug/L	500	469	94	80-120	
Copper	ug/L	500	471	94	80-120	
Lead	ug/L	500	470	94	80-120	
Nickel	ug/L	500	480	96	80-120	
Selenium	ug/L	500	542	108	80-120	
Silver	ug/L	250	237	95	80-120	
Thallium	ug/L	500	457	91	80-120	
Vanadium	ug/L	500	464	93	80-120	
Zinc	ug/L	500	537	107	80-120	

MATRIX SPIKE SAMPLE: 927601

Parameter	Units	92148937001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	6.8	500	475	94	75-125	
Arsenic	ug/L	ND	500	473	94	75-125	

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QUALITY CONTROL DATA

Project: Cherokee MSWLF SWs
Pace Project No.: 92148937

MATRIX SPIKE SAMPLE: 927601

Parameter	Units	92148937001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	6.2J	500	464	92	75-125	
Beryllium	ug/L	ND	500	463	93	75-125	
Cadmium	ug/L	ND	500	475	95	75-125	
Chromium	ug/L	ND	500	453	91	75-125	
Cobalt	ug/L	ND	500	456	91	75-125	
Copper	ug/L	ND	500	460	92	75-125	
Lead	ug/L	ND	500	457	91	75-125	
Nickel	ug/L	ND	500	467	93	75-125	
Selenium	ug/L	ND	500	515	102	75-125	
Silver	ug/L	ND	250	231	92	75-125	
Thallium	ug/L	ND	500	460	91	75-125	
Vanadium	ug/L	ND	500	452	90	75-125	
Zinc	ug/L	30.0	500	509	96	75-125	

SAMPLE DUPLICATE: 927602

Parameter	Units	92148937002 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	5.1J	6.7	27	20	D6
Arsenic	ug/L	ND	ND		20	
Barium	ug/L	6.0J	5.9J	2	20	
Beryllium	ug/L	ND	ND		20	
Cadmium	ug/L	ND	ND		20	
Chromium	ug/L	ND	ND		20	
Cobalt	ug/L	ND	ND		20	
Copper	ug/L	ND	ND		20	
Lead	ug/L	ND	ND		20	
Nickel	ug/L	ND	ND		20	
Selenium	ug/L	ND	ND		20	
Silver	ug/L	ND	ND		20	
Thallium	ug/L	ND	ND		20	
Vanadium	ug/L	ND	ND		20	
Zinc	ug/L	25.8	27.5	6	20	

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QUALITY CONTROL DATA

Project: Cherokee MSWLF SWs
Pace Project No.: 92148937

QC Batch: MSV/22121 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 92148937001, 92148937002, 92148937003, 92148937004

METHOD BLANK: 927307 Matrix: Water
Associated Lab Samples: 92148937001, 92148937002, 92148937003, 92148937004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	02/22/13 21:55	
1,1,1-Trichloroethane	ug/L	ND	1.0	02/22/13 21:55	
1,1,2,2-Tetrachloroethane	ug/L	ND	3.0	02/22/13 21:55	
1,1,2-Trichloroethane	ug/L	ND	1.0	02/22/13 21:55	
1,1-Dichloroethane	ug/L	ND	5.0	02/22/13 21:55	
1,1-Dichloroethene	ug/L	ND	5.0	02/22/13 21:55	
1,2,3-Trichloropropane	ug/L	ND	1.0	02/22/13 21:55	
1,2-Dibromo-3-chloropropane	ug/L	ND	13.0	02/22/13 21:55	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	02/22/13 21:55	
1,2-Dichlorobenzene	ug/L	ND	5.0	02/22/13 21:55	
1,2-Dichloroethane	ug/L	ND	1.0	02/22/13 21:55	
1,2-Dichloropropane	ug/L	ND	1.0	02/22/13 21:55	
1,3-Dichloropropane	ug/L	ND	1.0	02/22/13 21:55	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/22/13 21:55	
2-Butanone (MEK)	ug/L	ND	100	02/22/13 21:55	
2-Hexanone	ug/L	ND	50.0	02/22/13 21:55	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	02/22/13 21:55	
Acetone	ug/L	ND	100	02/22/13 21:55	
Acrylonitrile	ug/L	ND	200	02/22/13 21:55	
Benzene	ug/L	ND	1.0	02/22/13 21:55	
Bromochloromethane	ug/L	ND	3.0	02/22/13 21:55	
Bromodichloromethane	ug/L	ND	1.0	02/22/13 21:55	
Bromoform	ug/L	ND	3.0	02/22/13 21:55	
Bromomethane	ug/L	ND	10.0	02/22/13 21:55	
Carbon disulfide	ug/L	ND	100	02/22/13 21:55	
Carbon tetrachloride	ug/L	ND	1.0	02/22/13 21:55	
Chlorobenzene	ug/L	ND	3.0	02/22/13 21:55	
Chloroethane	ug/L	ND	10.0	02/22/13 21:55	
Chloroform	ug/L	ND	5.0	02/22/13 21:55	
Chloromethane	ug/L	ND	1.0	02/22/13 21:55	
cis-1,2-Dichloroethene	ug/L	ND	5.0	02/22/13 21:55	
cis-1,3-Dichloropropene	ug/L	ND	1.0	02/22/13 21:55	
Dibromochloromethane	ug/L	ND	3.0	02/22/13 21:55	
Dibromomethane	ug/L	ND	10.0	02/22/13 21:55	
Ethylbenzene	ug/L	ND	1.0	02/22/13 21:55	
Iodomethane	ug/L	ND	10.0	02/22/13 21:55	
Methylene Chloride	ug/L	ND	1.0	02/22/13 21:55	
Styrene	ug/L	ND	1.0	02/22/13 21:55	
Tetrachloroethene	ug/L	ND	1.0	02/22/13 21:55	
Toluene	ug/L	ND	1.0	02/22/13 21:55	
trans-1,2-Dichloroethene	ug/L	ND	5.0	02/22/13 21:55	
trans-1,3-Dichloropropene	ug/L	ND	1.0	02/22/13 21:55	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	02/22/13 21:55	

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QUALITY CONTROL DATA

Project: Cherokee MSWLF SWs
Pace Project No.: 92148937

METHOD BLANK: 927307 Matrix: Water

Associated Lab Samples: 92148937001, 92148937002, 92148937003, 92148937004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichloroethene	ug/L	ND	1.0	02/22/13 21:55	
Trichlorofluoromethane	ug/L	ND	1.0	02/22/13 21:55	
Vinyl acetate	ug/L	ND	50.0	02/22/13 21:55	
Vinyl chloride	ug/L	ND	1.0	02/22/13 21:55	
Xylene (Total)	ug/L	ND	5.0	02/22/13 21:55	
1,2-Dichloroethane-d4 (S)	%	98	70-130	02/22/13 21:55	
4-Bromofluorobenzene (S)	%	99	70-130	02/22/13 21:55	
Dibromofluoromethane (S)	%	104	70-130	02/22/13 21:55	
Toluene-d8 (S)	%	99	70-130	02/22/13 21:55	

LABORATORY CONTROL SAMPLE: 927308

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	56.5	113	70-130	
1,1,1-Trichloroethane	ug/L	50	52.7	105	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	53.8	108	70-130	
1,1,2-Trichloroethane	ug/L	50	52.2	104	70-130	
1,1-Dichloroethane	ug/L	50	52.8	106	70-130	
1,1-Dichloroethene	ug/L	50	49.4	99	70-132	
1,2,3-Trichloropropane	ug/L	50	53.5	107	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	60.9	122	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	56.3	113	70-130	
1,2-Dichlorobenzene	ug/L	50	54.6	109	70-130	
1,2-Dichloroethane	ug/L	50	53.0	106	70-130	
1,2-Dichloropropane	ug/L	50	52.1	104	70-130	
1,3-Dichloropropane	ug/L	50	55.1	110	70-130	
1,4-Dichlorobenzene	ug/L	50	54.4	109	70-130	
2-Butanone (MEK)	ug/L	100	111	111	70-145	
2-Hexanone	ug/L	100	101	101	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	100	98.0J	98	70-140	
Acetone	ug/L	100	108	108	50-175	
Acrylonitrile	ug/L	250	268	107	70-143	
Benzene	ug/L	50	53.0	106	70-130	
Bromochloromethane	ug/L	50	54.3	109	70-130	
Bromodichloromethane	ug/L	50	53.6	107	70-130	
Bromoform	ug/L	50	50.1	100	70-130	
Bromomethane	ug/L	50	57.8	116	54-130	
Carbon disulfide	ug/L	50	46.2J	92	70-131	
Carbon tetrachloride	ug/L	50	55.5	111	70-132	
Chlorobenzene	ug/L	50	54.9	110	70-130	
Chloroethane	ug/L	50	43.6	87	64-134	
Chloroform	ug/L	50	52.9	106	70-130	
Chloromethane	ug/L	50	40.2	80	64-130	
cis-1,2-Dichloroethene	ug/L	50	51.9	104	70-131	
cis-1,3-Dichloropropene	ug/L	50	53.8	108	70-130	

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QUALITY CONTROL DATA

Project: Cherokee MSWLF SWs
Pace Project No.: 92148937

LABORATORY CONTROL SAMPLE: 927308

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromochloromethane	ug/L	50	57.9	116	70-130	
Dibromomethane	ug/L	50	55.6	111	70-131	
Ethylbenzene	ug/L	50	54.3	109	70-130	
Iodomethane	ug/L	100	82.8	83	49-180	
Methylene Chloride	ug/L	50	49.8	100	63-130	
Styrene	ug/L	50	54.4	109	70-130	
Tetrachloroethene	ug/L	50	51.2	102	70-130	
Toluene	ug/L	50	51.9	104	70-130	
trans-1,2-Dichloroethene	ug/L	50	48.5	97	70-130	
trans-1,3-Dichloropropene	ug/L	50	54.5	109	70-132	
trans-1,4-Dichloro-2-butene	ug/L	50	41.0J	82	70-141	
Trichloroethene	ug/L	50	48.4	97	70-130	
Trichlorofluoromethane	ug/L	50	48.7	97	62-133	
Vinyl acetate	ug/L	100	114	114	66-157	
Vinyl chloride	ug/L	50	49.7	99	69-130	
Xylene (Total)	ug/L	150	161	107	70-130	
1,2-Dichloroethane-d4 (S)	%			93	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Dibromofluoromethane (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 927309 927310

Parameter	Units	92148937001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	52.0	55.8	104	112	70-166	7	30	
Benzene	ug/L	ND	50	50	51.7	51.5	103	103	70-148	0	30	
Chlorobenzene	ug/L	ND	50	50	59.7	61.4	119	123	70-146	3	30	
Toluene	ug/L	ND	50	50	58.5	58.1	117	116	70-155	1	30	
Trichloroethene	ug/L	ND	50	50	54.6	53.5	109	107	69-151	2	30	
1,2-Dichloroethane-d4 (S)	%						97	98	70-130			
4-Bromofluorobenzene (S)	%						99	100	70-130			
Dibromofluoromethane (S)	%						104	99	70-130			
Toluene-d8 (S)	%						97	98	70-130			

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QUALIFIERS

Project: Cherokee MSWLF SWs
Pace Project No.: 92148937

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
D6	The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Cherokee MSWLF SWs
Pace Project No.: 92148937

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92148937001	**SW-1**	SM 3030C	MPRP/12673	EPA 6010	ICP/11561
92148937002	**SW-2**	SM 3030C	MPRP/12673	EPA 6010	ICP/11561
92148937003	**SW-4**	SM 3030C	MPRP/12673	EPA 6010	ICP/11561
92148937004	**SW-5**	SM 3030C	MPRP/12673	EPA 6010	ICP/11561
92148937001	**SW-1**	EPA 8260	MSV/22121		
92148937002	**SW-2**	EPA 8260	MSV/22121		
92148937003	**SW-4**	EPA 8260	MSV/22121		
92148937004	**SW-5**	EPA 8260	MSV/22121		

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Pace Analytical www.pacelabs.com	Document Name: **Sample Condition Upon Receipt (SCUR)**	WO# : 92148937
	Document No.: F-ASV-CS-003-rev.08	92148937

Client Name: MES

Where Received: ☐ Huntersville ☑ Asheville ☐ Eden ☐ Raleigh

Courier (Circle): Fed Ex UPS USPS (Client) Commercial Pace Other

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☑ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Circle Thermometer Used: IR Gun#2 -80344039 **Type of Ice:** (Wet) Blue None ☑ Samples on ice, cooling process has begun

IR Gun Back Up- 111565135

Temp Correction Factor: Add / Subtract 0.1 C

Corrected Cooler Temp.: 1.9/3.3/4.1 C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Comments:

Date and Initials of person examining contents: 2/21/13

Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☑Yes	☐No	☐N/A	11.
Sample Labels match COC:	☐Yes	☑No	☐N/A	12. No Date or Time listed on labels
-includes date/time/ID/Analysis Matrix: WT				
All containers needing preservation have been checked.	☐Yes	☐No	☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes	☐No	☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☑Yes	☐No		Initial when completed
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
Headspace in VOA Vials (>6mm):	☑Yes	☐No	☐N/A	15.
Trip Blank Present:	☐Yes	☐No	☑N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	
Pace Trip Blank Lot # (if purchased):				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

SCURF Review: DKM Date: 2/21/13 **SRF Review:** [illegible] Date: 2/25/13

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Municipal Engineering Services	Report To:	Jonathan Pfohl	Attention:	Municipal Engineering Services
Address:	P.O. Box 97	Copy To:		Company Name:	
Garner, NC 27529				Address:	
Email To:	jpfohl@mesco.com	Purchase Order No.		Pace Quote Reference:	
Phone:	919-772-5393 Fax:	Client Project ID:	Cherokee MSWLF SWs	Pace Project Manager:	Kevin Godwin
Requested Due Date/TAT:	10 Day (Default)	Container Order Number:		Pace Profile #:	

Regulatory Agency:

State / Location: North Carolina

Requested Analysis Filtered (Y/N)

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	VOCs- App I	Metals-App I (3030C Prep)										92148937
	MATRIX CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS																		N	N	N	N	N	N	N	N	N	N	N	
1	SW-1	WT	G			2/20/13	12:35		4			1	3						X	X										001
2	SW-2	WT	G				1:50		4			1	3						X	X										002
3	SW-4	WT	G				6:00		4			1	3						X	X										003
4	SW-5	WT	G				6:15		4			1	3						X	X										004
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	/ MESCO	2/22/13	12:04		2/21/13	12:04	1.9/3.3 4.1	Y		Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jonathan Pfohl

SIGNATURE of SAMPLER: DATE Signed: 2/20/13

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

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February 28, 2013

Mr. Jonathan Pfohl
Municipal Engineering Services
PO Box 97
Garner, NC 27529

RE: Project: Cherokee MSWLF Blanks
Pace Project No.: 92148944

Dear Mr. Pfohl:
Enclosed are the analytical results for sample(s) received by the laboratory on February 21, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

It has been determined that a specific lot number of EPA 6010/3030C prep filters were received from the manufacturer contaminated with Zinc and Antimony. The results for these elements are bias high.

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

Sincerely,

Kevin Godwin

kevin.godwin@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: Cherokee MSWLF Blanks
Pace Project No.: 92148944

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

Asheville Certification IDs
2225 Riverside Dr., Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

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SAMPLE SUMMARY

Project: Cherokee MSWLF Blanks
Pace Project No.: 92148944

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92148944001	**EB**	Water	02/20/13 20:00	02/21/13 12:04
92148944002	**FB**	Water	02/20/13 20:10	02/21/13 12:04
92148944003	**TB**	Water	02/20/13 00:00	02/21/13 12:04

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SAMPLE ANALYTE COUNT

Project: Cherokee MSWLF Blanks
Pace Project No.: 92148944

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92148944001	**EB**	EPA 6010	JMW	16	PASI-A
		EPA 7470	DMB	1	PASI-A
		EPA 8260	MCK	52	PASI-C
92148944002	**FB**	EPA 6010	JMW	16	PASI-A
		EPA 7470	DMB	1	PASI-A
		EPA 8260	MCK	52	PASI-C
92148944003	**TB**	EPA 8260	MCK	52	PASI-C

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ANALYTICAL RESULTS

Project: Cherokee MSWLF Blanks
Pace Project No.: 92148944

Sample: EB **Lab ID: 92148944001** Collected: 02/20/13 20:00 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, 3030C	Analytical Method: EPA 6010 Preparation Method: SM 3030C								
Antimony	**5.8J**	ug/L	6.0	5.0	1	02/22/13 19:35	02/24/13 18:44	7440-36-0	B
Arsenic	ND	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:44	7440-38-2	
Barium	ND	ug/L	100	5.0	1	02/22/13 19:35	02/24/13 18:44	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	02/22/13 19:35	02/24/13 18:44	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	02/22/13 19:35	02/24/13 18:44	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:44	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:44	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:44	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:44	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	02/22/13 19:35	02/24/13 18:44	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:44	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:44	7440-22-4	
Thallium	ND	ug/L	5.5	5.5	1	02/22/13 19:35	02/24/13 18:44	7440-28-0	
Tin	ND	ug/L	100	5.0	1	02/22/13 19:35	02/24/13 18:44	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	02/22/13 19:35	02/24/13 18:44	7440-62-2	
Zinc	**70.2**	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:44	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	02/27/13 17:55	02/28/13 12:27	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/24/13 12:52	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/24/13 12:52	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/24/13 12:52	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/24/13 12:52	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/24/13 12:52	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/24/13 12:52	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/24/13 12:52	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/24/13 12:52	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/24/13 12:52	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/24/13 12:52	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/24/13 12:52	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/24/13 12:52	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/24/13 12:52	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/24/13 12:52	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/24/13 12:52	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/24/13 12:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/24/13 12:52	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/24/13 12:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/24/13 12:52	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/24/13 12:52	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/24/13 12:52	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/24/13 12:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/24/13 12:52	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/24/13 12:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/24/13 12:52	156-59-2	

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ANALYTICAL RESULTS

Project: Cherokee MSWLF Blanks
Pace Project No.: 92148944

Sample: EB **Lab ID: 92148944001** Collected: 02/20/13 20:00 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/24/13 12:52	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/24/13 12:52	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/24/13 12:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/24/13 12:52	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/24/13 12:52	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/24/13 12:52	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/24/13 12:52	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/24/13 12:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/24/13 12:52	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		02/24/13 12:52	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		02/24/13 12:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/24/13 12:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/24/13 12:52	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/24/13 12:52	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/24/13 12:52	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/24/13 12:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/24/13 12:52	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/24/13 12:52	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/24/13 12:52	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/24/13 12:52	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/24/13 12:52	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/24/13 12:52	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/24/13 12:52	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		02/24/13 12:52	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		02/24/13 12:52	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		02/24/13 12:52	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		02/24/13 12:52	2037-26-5	

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ANALYTICAL RESULTS

Project: Cherokee MSWLF Blanks
Pace Project No.: 92148944

Sample: FB **Lab ID: 92148944002** Collected: 02/20/13 20:10 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, 3030C	Analytical Method: EPA 6010 Preparation Method: SM 3030C								
Antimony	ND	ug/L	6.0	5.0	1	02/22/13 19:35	02/24/13 18:47	7440-36-0	B
Arsenic	ND	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:47	7440-38-2	
Barium	ND	ug/L	100	5.0	1	02/22/13 19:35	02/24/13 18:47	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	02/22/13 19:35	02/24/13 18:47	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	02/22/13 19:35	02/24/13 18:47	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:47	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:47	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:47	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:47	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	02/22/13 19:35	02/24/13 18:47	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:47	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/22/13 19:35	02/24/13 18:47	7440-22-4	
Thallium	ND	ug/L	5.5	5.5	1	02/22/13 19:35	02/24/13 18:47	7440-28-0	
Tin	ND	ug/L	100	5.0	1	02/22/13 19:35	02/24/13 18:47	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	02/22/13 19:35	02/24/13 18:47	7440-62-2	
Zinc	**19.6**	ug/L	10.0	10.0	1	02/22/13 19:35	02/24/13 18:47	7440-66-6	B
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	02/27/13 17:55	02/28/13 12:37	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/24/13 13:08	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/24/13 13:08	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/24/13 13:08	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/24/13 13:08	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/24/13 13:08	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/24/13 13:08	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/24/13 13:08	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/24/13 13:08	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/24/13 13:08	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/24/13 13:08	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/24/13 13:08	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/24/13 13:08	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/24/13 13:08	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/24/13 13:08	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/24/13 13:08	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/24/13 13:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/24/13 13:08	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/24/13 13:08	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/24/13 13:08	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/24/13 13:08	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/24/13 13:08	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/24/13 13:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/24/13 13:08	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/24/13 13:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/24/13 13:08	156-59-2	

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ANALYTICAL RESULTS

Project: Cherokee MSWLF Blanks
Pace Project No.: 92148944

Sample: FB **Lab ID: 92148944002** Collected: 02/20/13 20:10 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/24/13 13:08	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/24/13 13:08	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/24/13 13:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/24/13 13:08	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/24/13 13:08	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/24/13 13:08	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/24/13 13:08	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/24/13 13:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/24/13 13:08	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		02/24/13 13:08	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		02/24/13 13:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/24/13 13:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/24/13 13:08	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/24/13 13:08	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/24/13 13:08	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/24/13 13:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/24/13 13:08	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/24/13 13:08	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/24/13 13:08	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/24/13 13:08	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/24/13 13:08	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/24/13 13:08	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/24/13 13:08	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		02/24/13 13:08	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		02/24/13 13:08	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		02/24/13 13:08	17060-07-0	
Toluene-d8 (S)	96	%	70-130		1		02/24/13 13:08	2037-26-5	

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ANALYTICAL RESULTS

Project: Cherokee MSWLF Blanks
Pace Project No.: 92148944

Sample: TB **Lab ID: 92148944003** Collected: 02/20/13 00:00 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/24/13 13:23	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/24/13 13:23	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/24/13 13:23	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/24/13 13:23	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/24/13 13:23	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/24/13 13:23	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/24/13 13:23	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/24/13 13:23	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/24/13 13:23	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/24/13 13:23	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/24/13 13:23	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/24/13 13:23	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/24/13 13:23	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/24/13 13:23	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/24/13 13:23	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/24/13 13:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/24/13 13:23	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/24/13 13:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/24/13 13:23	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/24/13 13:23	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/24/13 13:23	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/24/13 13:23	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/24/13 13:23	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/24/13 13:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/24/13 13:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/24/13 13:23	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/24/13 13:23	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/24/13 13:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/24/13 13:23	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/24/13 13:23	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/24/13 13:23	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/24/13 13:23	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/24/13 13:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/24/13 13:23	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		02/24/13 13:23	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		02/24/13 13:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/24/13 13:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/24/13 13:23	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/24/13 13:23	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/24/13 13:23	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/24/13 13:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/24/13 13:23	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/24/13 13:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/24/13 13:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/24/13 13:23	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/24/13 13:23	108-05-4	

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ANALYTICAL RESULTS

Project: Cherokee MSWLF Blanks
Pace Project No.: 92148944

Sample: TB **Lab ID: 92148944003** Collected: 02/20/13 00:00 Received: 02/21/13 12:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/24/13 13:23	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/24/13 13:23	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		02/24/13 13:23	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		02/24/13 13:23	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		02/24/13 13:23	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		02/24/13 13:23	2037-26-5	

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QUALITY CONTROL DATA

Project: Cherokee MSWLF Blanks
Pace Project No.: 92148944

QC Batch: MERP/4961 — Analysis Method: EPA 7470
QC Batch Method: EPA 7470 — Analysis Description: 7470 Mercury
Associated Lab Samples: 92148944001, 92148944002

METHOD BLANK: 929679 — Matrix: Water
Associated Lab Samples: 92148944001, 92148944002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	02/28/13 12:13	

LABORATORY CONTROL SAMPLE: 929680

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.2	87	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 929681 929682

Parameter	Units	92149044006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.2	2.2	88	86	75-125	2	25	

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QUALITY CONTROL DATA

Project: Cherokee MSWLF Blanks
Pace Project No.: 92148944

QC Batch: MPRP/12673
Analysis Method: EPA 6010
QC Batch Method: SM 3030C
Analysis Description: 6010 MET 3030C
Associated Lab Samples: 92148944001, 92148944002

METHOD BLANK: 927599
Matrix: Water
Associated Lab Samples: 92148944001, 92148944002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	5.8J	6.0	02/24/13 17:27	B
Arsenic	ug/L	ND	10.0	02/24/13 17:27	
Barium	ug/L	ND	100	02/24/13 17:27	
Beryllium	ug/L	ND	1.0	02/24/13 17:27	
Cadmium	ug/L	ND	1.0	02/24/13 17:27	
Chromium	ug/L	ND	10.0	02/24/13 17:27	
Cobalt	ug/L	ND	10.0	02/24/13 17:27	
Copper	ug/L	ND	10.0	02/24/13 17:27	
Lead	ug/L	ND	10.0	02/24/13 17:27	
Nickel	ug/L	ND	50.0	02/24/13 17:27	
Selenium	ug/L	ND	10.0	02/24/13 17:27	
Silver	ug/L	ND	10.0	02/24/13 17:27	
Thallium	ug/L	ND	5.5	02/24/13 17:27	
Tin	ug/L	ND	100	02/24/13 17:27	
Vanadium	ug/L	ND	25.0	02/24/13 17:27	
Zinc	ug/L	21.5	10.0	02/24/13 17:27	B

LABORATORY CONTROL SAMPLE: 927600

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	492	98	80-120	
Arsenic	ug/L	500	488	98	80-120	
Barium	ug/L	500	462	92	80-120	
Beryllium	ug/L	500	468	94	80-120	
Cadmium	ug/L	500	493	99	80-120	
Chromium	ug/L	500	465	93	80-120	
Cobalt	ug/L	500	469	94	80-120	
Copper	ug/L	500	471	94	80-120	
Lead	ug/L	500	470	94	80-120	
Nickel	ug/L	500	480	96	80-120	
Selenium	ug/L	500	542	108	80-120	
Silver	ug/L	250	237	95	80-120	
Thallium	ug/L	500	457	91	80-120	
Tin	ug/L	500	478	96	80-120	
Vanadium	ug/L	500	464	93	80-120	
Zinc	ug/L	500	537	107	80-120	

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QUALITY CONTROL DATA

Project: Cherokee MSWLF Blanks
Pace Project No.: 92148944

MATRIX SPIKE SAMPLE: 927601

Parameter	Units	92148937001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	6.8	500	475	94	75-125	
Arsenic	ug/L	ND	500	473	94	75-125	
Barium	ug/L	6.2J	500	464	92	75-125	
Beryllium	ug/L	ND	500	463	93	75-125	
Cadmium	ug/L	ND	500	475	95	75-125	
Chromium	ug/L	ND	500	453	91	75-125	
Cobalt	ug/L	ND	500	456	91	75-125	
Copper	ug/L	ND	500	460	92	75-125	
Lead	ug/L	ND	500	457	91	75-125	
Nickel	ug/L	ND	500	467	93	75-125	
Selenium	ug/L	ND	500	515	102	75-125	
Silver	ug/L	ND	250	231	92	75-125	
Thallium	ug/L	ND	500	460	91	75-125	
Tin	ug/L	ND	500	468	93	75-125	
Vanadium	ug/L	ND	500	452	90	75-125	
Zinc	ug/L	30.0	500	509	96	75-125	

SAMPLE DUPLICATE: 927602

Parameter	Units	92148937002 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	5.1J	6.7	27	20	D6
Arsenic	ug/L	ND	ND		20	
Barium	ug/L	6.0J	5.9J	2	20	
Beryllium	ug/L	ND	ND		20	
Cadmium	ug/L	ND	ND		20	
Chromium	ug/L	ND	ND		20	
Cobalt	ug/L	ND	ND		20	
Copper	ug/L	ND	ND		20	
Lead	ug/L	ND	ND		20	
Nickel	ug/L	ND	ND		20	
Selenium	ug/L	ND	ND		20	
Silver	ug/L	ND	ND		20	
Thallium	ug/L	ND	ND		20	
Tin	ug/L	ND	ND		20	
Vanadium	ug/L	ND	ND		20	
Zinc	ug/L	25.8	27.5	6	20	

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QUALITY CONTROL DATA

Project: Cherokee MSWLF Blanks
Pace Project No.: 92148944

QC Batch: MSV/22137 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 92148944001, 92148944002, 92148944003

METHOD BLANK: 927976 Matrix: Water
Associated Lab Samples: 92148944001, 92148944002, 92148944003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	02/24/13 12:20	
1,1,1-Trichloroethane	ug/L	ND	1.0	02/24/13 12:20	
1,1,2,2-Tetrachloroethane	ug/L	ND	3.0	02/24/13 12:20	
1,1,2-Trichloroethane	ug/L	ND	1.0	02/24/13 12:20	
1,1-Dichloroethane	ug/L	ND	5.0	02/24/13 12:20	
1,1-Dichloroethene	ug/L	ND	5.0	02/24/13 12:20	
1,2,3-Trichloropropane	ug/L	ND	1.0	02/24/13 12:20	
1,2-Dibromo-3-chloropropane	ug/L	ND	13.0	02/24/13 12:20	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	02/24/13 12:20	
1,2-Dichlorobenzene	ug/L	ND	5.0	02/24/13 12:20	
1,2-Dichloroethane	ug/L	ND	1.0	02/24/13 12:20	
1,2-Dichloropropane	ug/L	ND	1.0	02/24/13 12:20	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/24/13 12:20	
2-Butanone (MEK)	ug/L	ND	100	02/24/13 12:20	
2-Hexanone	ug/L	ND	50.0	02/24/13 12:20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	02/24/13 12:20	
Acetone	ug/L	ND	100	02/24/13 12:20	
Acrylonitrile	ug/L	ND	200	02/24/13 12:20	
Benzene	ug/L	ND	1.0	02/24/13 12:20	
Bromochloromethane	ug/L	ND	3.0	02/24/13 12:20	
Bromodichloromethane	ug/L	ND	1.0	02/24/13 12:20	
Bromoform	ug/L	ND	3.0	02/24/13 12:20	
Bromomethane	ug/L	ND	10.0	02/24/13 12:20	
Carbon disulfide	ug/L	ND	100	02/24/13 12:20	
Carbon tetrachloride	ug/L	ND	1.0	02/24/13 12:20	
Chlorobenzene	ug/L	ND	3.0	02/24/13 12:20	
Chloroethane	ug/L	ND	10.0	02/24/13 12:20	
Chloroform	ug/L	ND	5.0	02/24/13 12:20	
Chloromethane	ug/L	ND	1.0	02/24/13 12:20	
cis-1,2-Dichloroethene	ug/L	ND	5.0	02/24/13 12:20	
cis-1,3-Dichloropropene	ug/L	ND	1.0	02/24/13 12:20	
Dibromochloromethane	ug/L	ND	3.0	02/24/13 12:20	
Dibromomethane	ug/L	ND	10.0	02/24/13 12:20	
Ethylbenzene	ug/L	ND	1.0	02/24/13 12:20	
Iodomethane	ug/L	ND	10.0	02/24/13 12:20	
Methylene Chloride	ug/L	ND	1.0	02/24/13 12:20	
Naphthalene	ug/L	ND	10.0	02/24/13 12:20	
Styrene	ug/L	ND	1.0	02/24/13 12:20	
Tetrachloroethene	ug/L	ND	1.0	02/24/13 12:20	
Toluene	ug/L	ND	1.0	02/24/13 12:20	
trans-1,2-Dichloroethene	ug/L	ND	5.0	02/24/13 12:20	
trans-1,3-Dichloropropene	ug/L	ND	1.0	02/24/13 12:20	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	02/24/13 12:20	

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QUALITY CONTROL DATA

Project: Cherokee MSWLF Blanks
Pace Project No.: 92148944

METHOD BLANK: 927976 Matrix: Water

Associated Lab Samples: 92148944001, 92148944002, 92148944003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichloroethene	ug/L	ND	1.0	02/24/13 12:20	
Trichlorofluoromethane	ug/L	ND	1.0	02/24/13 12:20	
Vinyl acetate	ug/L	ND	50.0	02/24/13 12:20	
Vinyl chloride	ug/L	ND	1.0	02/24/13 12:20	
Xylene (Total)	ug/L	ND	5.0	02/24/13 12:20	
1,2-Dichloroethane-d4 (S)	%	98	70-130	02/24/13 12:20	
4-Bromofluorobenzene (S)	%	103	70-130	02/24/13 12:20	
Dibromofluoromethane (S)	%	106	70-130	02/24/13 12:20	
Toluene-d8 (S)	%	96	70-130	02/24/13 12:20	

LABORATORY CONTROL SAMPLE: 927977

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	59.0	118	70-130	
1,1,1-Trichloroethane	ug/L	50	56.6	113	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	53.1	106	70-130	
1,1,2-Trichloroethane	ug/L	50	53.5	107	70-130	
1,1-Dichloroethane	ug/L	50	54.4	109	70-130	
1,1-Dichloroethene	ug/L	50	46.9	94	70-132	
1,2,3-Trichloropropane	ug/L	50	54.2	108	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	59.1	118	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	57.1	114	70-130	
1,2-Dichlorobenzene	ug/L	50	57.0	114	70-130	
1,2-Dichloroethane	ug/L	50	53.1	106	70-130	
1,2-Dichloropropane	ug/L	50	54.5	109	70-130	
1,4-Dichlorobenzene	ug/L	50	56.1	112	70-130	
2-Butanone (MEK)	ug/L	100	108	108	70-145	
2-Hexanone	ug/L	100	99.1	99	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	100	98.5J	99	70-140	
Acetone	ug/L	100	106	106	50-175	
Acrylonitrile	ug/L	250	261	104	70-143	
Benzene	ug/L	50	55.8	112	70-130	
Bromochloromethane	ug/L	50	58.7	117	70-130	
Bromodichloromethane	ug/L	50	56.6	113	70-130	
Bromoform	ug/L	50	53.0	106	70-130	
Bromomethane	ug/L	50	48.2	96	54-130	
Carbon disulfide	ug/L	50	48.9J	98	70-131	
Carbon tetrachloride	ug/L	50	58.3	117	70-132	
Chlorobenzene	ug/L	50	55.9	112	70-130	
Chloroethane	ug/L	50	43.8	88	64-134	
Chloroform	ug/L	50	54.6	109	70-130	
Chloromethane	ug/L	50	42.0	84	64-130	
cis-1,2-Dichloroethene	ug/L	50	53.4	107	70-131	
cis-1,3-Dichloropropene	ug/L	50	57.9	116	70-130	
Dibromochloromethane	ug/L	50	61.2	122	70-130	

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QUALITY CONTROL DATA

Project: Cherokee MSWLF Blanks
Pace Project No.: 92148944

LABORATORY CONTROL SAMPLE: 927977

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromomethane	ug/L	50	57.7	115	70-131	
Ethylbenzene	ug/L	50	55.1	110	70-130	
Iodomethane	ug/L	100	82.2	82	49-180	
Methylene Chloride	ug/L	50	50.8	102	63-130	
Naphthalene	ug/L	50	59.2	118	70-138	
Styrene	ug/L	50	55.5	111	70-130	
Tetrachloroethene	ug/L	50	54.7	109	70-130	
Toluene	ug/L	50	55.6	111	70-130	
trans-1,2-Dichloroethene	ug/L	50	51.6	103	70-130	
trans-1,3-Dichloropropene	ug/L	50	58.1	116	70-132	
trans-1,4-Dichloro-2-butene	ug/L	50	46.7J	93	70-141	
Trichloroethene	ug/L	50	50.8	102	70-130	
Trichlorofluoromethane	ug/L	50	47.8	96	62-133	
Vinyl acetate	ug/L	100	118	118	66-157	
Vinyl chloride	ug/L	50	50.7	101	69-130	
Xylene (Total)	ug/L	150	166	110	70-130	
1,2-Dichloroethane-d4 (S)	%			92	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Dibromofluoromethane (S)	%			100	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 927978 927979

Parameter	Units	92148504008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	59.8	54.1	120	108	70-166	10	30	
Benzene	ug/L	ND	50	50	53.1	52.5	106	105	70-148	1	30	
Chlorobenzene	ug/L	ND	50	50	60.5	59.3	121	119	70-146	2	30	
Toluene	ug/L	ND	50	50	58.8	56.7	118	113	70-155	4	30	
Trichloroethene	ug/L	ND	50	50	52.7	52.2	105	104	69-151	1	30	
1,2-Dichloroethane-d4 (S)	%						101	102	70-130			
4-Bromofluorobenzene (S)	%						97	95	70-130			
Dibromofluoromethane (S)	%						107	109	70-130			
Toluene-d8 (S)	%						99	98	70-130			

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Pace Analytical Services, Inc.
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Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: Cherokee MSWLF Blanks
Pace Project No.: 92148944

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
D6	The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Cherokee MSWLF Blanks
Pace Project No.: 92148944

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92148944001	**EB**	SM 3030C	MPRP/12673	EPA 6010	ICP/11561
92148944002	**FB**	SM 3030C	MPRP/12673	EPA 6010	ICP/11561
92148944001	**EB**	EPA 7470	MERP/4961	EPA 7470	MERC/4831
92148944002	**FB**	EPA 7470	MERP/4961	EPA 7470	MERC/4831
92148944001	**EB**	EPA 8260	MSV/22137		
92148944002	**FB**	EPA 8260	MSV/22137		
92148944003	**TB**	EPA 8260	MSV/22137		

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Pace Analytical www.pacelabs.com	Document Name: **Sample Condition Upon Receipt (SCUR)**	WO#: 92148944
	Document No.: F-ASV-CS-003-rev.08	92148944

Client Name: MES

Where Received: ☐ Huntersville ☑ Asheville ☐ Eden ☐ Raleigh

Courier (Circle): Fed Ex UPS USPS Client Commercial Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☑ no

Optional Proj. Due Date:

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other_____

Circle Thermometer Used: IR Gun#2 -80344039 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

IR Gun Back Up- 111565135

Temp Correction Factor: Add / Subtract 0.1 C

Corrected Cooler Temp.: 1.9/3.3/4.1 C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C **Comments:**

Date and Initials of person examining contents: 2/21/13

Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☑Yes	☐No	☐N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: WT	☑Yes	☑No	☐N/A	12. No Date or Time listed on labels
All containers needing preservation have been checked.	☑Yes	☐No	☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation. exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☑Yes	☐No	☐N/A	Initial when completed
Samples checked for dechlorination:	☑Yes	☐No	☐N/A	14.
Headspace in VOA Vials (>6mm):	☑Yes	☐No	☐N/A	15.
Trip Blank Present:	☑Yes	☐No	☐N/A	16.
Trip Blank Custody Seals Present	☑Yes	☐No	☐N/A	
Pace Trip Blank Lot # (if purchased):				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Jonathan Pfohl Date/Time: 2/25/13

Comments/ Resolution: * Rec'd Cyanide Container empty

* Did not Rec'd containers for 8151 or 8270 Jonathan informed to cross out 8151 Herbicide, 8270 SVOC, + cyanide analyses for EB, KG

SCURF Review: BM **Date:** 2/21/13 **SRF Review:** [signature] **Date:** 2/25/13

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A
Required Client Information:

Company:	Municipal Engineering Services
Address:	P.O. Box 97
	Garner, NC 27529
Email To:	jpfohl@mesco.com
Phone:	919-772-5393 Fax:
Requested Due Date/TAT:	10 Day (Default)

Section B
Required Project Information:

Report To:	Jonathan Pfohl
Copy To:	
Purchase Order No.	
Client Project ID:	Cherokee MSWLF Blanks
Container Order Number:	

Section C
Invoice Information:

Attention:	Municipal Engineering Services
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Kevin Godwin
Pace Profile #:	

Regulatory Agency:

State / Location: North Carolina

Requested Analysis Filtered (Y/N)

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test / Y/N	VOCs- App I			Metals-App II (3020C Reg)	~~8151 App II Herbicides~~	~~8270 App II SVOCs~~		~~Cyanide~~					Provide sufficent DI water for EB & FB
	MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS																		N	N	N	~~N~~	N	N	N	N	N	N	N		
1	EB	WT	G			2/21/13	8:00PM					1	3						x			X	x	x		x					001
2	FB	WT	G				8:10PM					1	3						X			X	per Jonathan								002
3	TB	WT	G			Pre Filled							3						X						KG	2/25/13					003
4																															
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															

92148944

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
		2/21/13	12:04		2/21/13	12:04	1.4	Y	~	Y
							3.3			
							4.1			
							TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jonathan Pfohl

SIGNATURE of SAMPLER:

DATE Signed: ~~2/20/13~~ 2/21/13

Pace Analytical www.pacelabs.com	Document Name: **Sample Condition Upon Receipt (SCUR)**	WO#: 92148944
	Document No.: F-ASV-CS-003-rev.08	92148941

Client Name: MES

Where Received: ☐ Huntersville ☑ Asheville ☐ Eden ☐ Raleigh

Courier (Circle): Fed Ex UPS USPS Client Commercial Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☑ no

Optional Proj. Due Date:

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other_____

Circle Thermometer Used: IR Gun#2 -80344039 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

IR Gun Back Up- 111565135

Temp Correction Factor: Add / Subtract 0.1 C

Corrected Cooler Temp.: 1.9/3.3/4.1 C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C **Comments:**

Date and Initials of person examining contents: 2/21/13

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9:
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☑Yes ☐No ☐N/A	11.
Sample Labels match COC:	☑Yes ☑No ☐N/A	12. No Date or Time listed on labels
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☑Yes ☐No	Initial when completed
Samples checked for dechlorination:	☑Yes ☐No ☐N/A	14.
Headspace in VOA Vials (>6mm):	☑Yes ☐No ☐N/A	15.
Trip Blank Present:	☑Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Jonathan Pfohl Date/Time: 2/25/13

Comments/ Resolution: * Rec'd cyanide container empty

* Did not rec'd containers for 8151 or 8270 Jonathan informed to cross out 8151 Herbicide, 8270 SVOC, + cyanide analyses for EB, KG

SCURF Review: BM **Date:** 2/21/13 **SRF Review:** [signature] **Date:** 2/25/13

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A
Required Client Information:

Company:	Municipal Engineering Services
Address:	P.O. Box 97
	Garner, NC 27529
Email To:	jpfohl@mesco.com
Phone:	919-772-5393 Fax:
Requested Due Date/TAT:	10 Day (Default)

Section B
Required Project Information:

Report To:	Jonathan Pfohl
Copy To:	
Purchase Order No.	
Client Project ID:	Cherokee MSWLF Blanks
Container Order Number:	

Section C
Invoice Information:

Attention:	Municipal Engineering Services
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Kevin Godwin
Pace Profile #:	

Regulatory Agency:

State / Location: North Carolina

Requested Analysis Filtered (Y/N)

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test (Y/N)	VOCs- App I			Metals-App II (3020C Reg)	~~8151 App II Herbicides~~	~~8270 App II SVOCs~~		~~Cyanide~~				Provide sufficent DI water for EB & FB
																			N	N	N	~~N~~	N	N	N	N	N	N	N	
1	EB	WT	G			2/21/13	8:00PM					1	3						x			X	x	x		x				001
2	FB	WT	G				8:10PM					1	3						X			X								002
3	TB	WT	G			Pre Filled							3						X											003
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

per Jonathan KG 2/25/13

92148944

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
		2/21/13	12:04		2/21/13	12:04	1.4	Y	~	Y
							3.3			
							4.1			
							TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jonathan Pfohl

SIGNATURE of SAMPLER:

DATE Signed: ~~2/20/13~~ 2/21/13

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Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

March 08, 2013

Mr. Jonathan Pfohl
Municipal Engineering Services
PO Box 97
Garner, NC 27529

RE: Project: CHEROKEE LINED MSWLF
Pace Project No.: 92150089

Dear Mr. Pfohl:
Enclosed are the analytical results for sample(s) received by the laboratory on March 05, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

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

Sincerely,

Kevin Godwin

kevin.godwin@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: CHEROKEE LINED MSWLF
Pace Project No.: 92150089

Asheville Certification IDs
2225 Riverside Dr., Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

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SAMPLE SUMMARY

Project: CHEROKEE LINED MSWLF
Pace Project No.: 92150089

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92150089001	**MW-2**	Water	02/02/13 17:40	03/05/13 18:40

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SAMPLE ANALYTE COUNT

Project: CHEROKEE LINED MSWLF
Pace Project No.: 92150089

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92150089001	**MW-2**	SM 4500-S2D	AES	1	PASI-A

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ANALYTICAL RESULTS

Project: CHEROKEE LINED MSWLF
Pace Project No.: 92150089

Sample: MW-2 **Lab ID: 92150089001** Collected: 02/02/13 17:40 Received: 03/05/13 18:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		03/07/13 17:35	18496-25-8	H3

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QUALITY CONTROL DATA

Project: CHEROKEE LINED MSWLF
Pace Project No.: 92150089

QC Batch: WET/24464
QC Batch Method: SM 4500-S2D
Analysis Method: SM 4500-S2D
Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 92150089001

METHOD BLANK: 934725
Matrix: Water
Associated Lab Samples: 92150089001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	ug/L	ND	1000	03/07/13 17:35	

LABORATORY CONTROL SAMPLE: 934726

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	ug/L	500	490J	98	90-110	

MATRIX SPIKE SAMPLE: 934727

Parameter	Units	92149792008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	ug/L	ND	500	452J	79	75-125	

SAMPLE DUPLICATE: 934728

Parameter	Units	92149792008 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide	ug/L	ND	ND		20	

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QUALIFIERS

Project: CHEROKEE LINED MSWLF
Pace Project No.: 92150089

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville

ANALYTE QUALIFIERS

H3	Sample was received or analysis requested beyond the recognized method holding time.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CHEROKEE LINED MSWLF
Pace Project No.: 92150089

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92150089001	**MW-2**	SM 4500-S2D	WET/24464		

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Appendix B
Field Sampling Parameter Data Sheet(s)

Sampling Data Sheet

Municipal Services Engineering Company — Garner, NC — Boone, NC

Project: Cherokee County Subtitle D MSWLF, Phases 1 & 2

Samplers: J. Pfohl

Monitoring Point	Sample Date	Sample Time	Sampling Parameters: Depth to Water (BTOC) Static @ Sample Time	Depth to Water (BTOC) Static on ~~(8/ /11)~~ 2/ /13	Lab Parameters to be analyzed for	Volume Purged (Gal)	Sample Type	Goes Dry During Purge	Comments	Total Depth as Expected (Y or N)	Total Depth Expected	Water Quality Parameters (Stabilized): DO (mg/L)	ORP	pH	Temp. ©	Specific Cond. (us/cm	TDS (mg/L)	Turbidity	GEM 2000 CH4 ~~(ppm)~~ (% LEL)
		8:00																	
MW-1	2/20/13	~~8:30~~		97.98	App II	3.5	DB	Y		Y	107	3.3	186	5.88	14.1	0	0	ST	Ø
MW-2	2/20/13	5:40		55.94	App II	3	DB	Y		Y	58	2.8	191	6.13	14.6	20	10	MT	Ø
MW-3	2/20/13	5:00		32.18	App II	4	DB	N		Y	38.5	2.3	212	5.87	14.8	30	10	ST	NR
MW-4	2/20/13	4:20		16.61	App II	6	DB	N		Y	27	0.9	193	6.19	14.0	0	0	ST	NR
MW-5	2/20/13	3:30		7.01	App II	2	DB	Y		Y	10	2.1	19	6.53	14.5	70	30	C	NR
MW-6S	2/21/13	9:15		14.55	App II	4	P&DB	Y		Y	20	0.2	-50	6.28	16.3	610	300	C	27% - pre-purg
MW-6D	2/21/13	8:35		24.92	App II	12	P&DB	Y		Y	50	0.9	-42	6.38	16.2	800	390	C	Ø screen covered ▽
MW-7	2/21/13	8:00		18.48	App II	3	DB	Y		Y	25	1.3	-15	6.13	15.1	410	200	ST	Ø
MW-8	2/20/13	2:30		11.44	App II	2	DB	Barely Y	Unimpacted By Flood	Y	15	1.4	203	6.17	15.4	60	20	ST	NR
MW-9	2/20/13	2:10	4	23.57	App II	4	P&DB	Y		Y	30	3.3	162	5.47	14.7	0	0	C	NR
P-17	2/20/13	9:35		10.97	App I	3	DB	N		Y	12.82	0.9	203	5.61	13.2	110	50	C	Ø
P-18	2/20/13	10:05		9.13	App I	6	DB	N	Appears Not impacted By Flood.		16.6	1.0	19	7.01	12.9	60	20	C	Ø
P-18D	2/20/13	1:30		8.73	App I	9	P&DB	Y	very slow recovery Flood Did NOT effect well	Y	54.43	0.9	121	7.35	13.5	290	150	C	NR
P-19	2/20/13	4:00		7.87	App I	3	DB	N	Recent Floods over Turnaround	Y	11.9	0.9	34	5.99	12.3	200	100	C	NR
P-20S	2/20/13	11:10		11.98	App I	7	P&DB	N	Unimpacted By Flood		20.43	0.4	138	6.13	15.3	200	100	ST	Ø
P-20D	2/20/13	11:00		11.24	App I	9	P&DB	Y		Y	42.92	0.8	119	9.21	15.4	180	80	C	NR
P-21	2/20/13	8:20		10.75	App I	5	P&DB	N		Y	20.2	3.6	224	5.53	13.0	90	40	MT	NR
LEACHATE	2/21/13	10:00	-	-	Leachate	-		-		-	-	-	-	-	-	-	-		-
P-4				3.75	WLR ONLY														
P2-5S				90.18	WLR ONLY														
P2-5D				108.52	WLR ONLY														

Comments

SS B=Stainless Steel Baler, D B=Disposable Baler, P=Low flow Pump, PD=Purged Dry

VT=Very Turbid, MT=Moderately Turbid, ST=Slightly Turbid, C=Clear

Sampling Data Sheet

Municipal Services Engineering Company
Garner, NC Boone, NC

Project: Cherokee County MSWLF-SW SHARED

Samplers: J. Pfohl

Monitoring Point	Sample Date	Sample Time	Sampling Parameters							Water Quality Parameters								
			Depth to Water (BTOP) Static	Lab Parameters to be analyzed for	Volume Purged (Gal)	Sample Type	Goes Dry During Purge	Comments	Total Depth	Cl⁻ (mg/l)	DO (mg/L)	ORP	pH	Temp. ©	Specific Cond. (us/cm	TDS (mg/L)	Turbidity	CH4 (ppm)
SW-1	2/20/13	12:35	-	App I	-	Dip	-	Normal Flow	-		8.8	181	7.43	6.3	10	0	c	-
SW-2	2/20/13	1:50	-	App I	-	↓	-	↓	-		8.9	193	7.34	6.1	0	0	c	-
SW-4	2/20/13	6:00PM	-	App I	-	↓	-	↓	-		9.1	173	7.41	6.5	20	10	c	-
SW-5	2/20/13	6:15PM	-	App I	-	↓	-	↓	-		8.7	183	7.35	6.8	0	0	c	-

Comments

Evidence of recent flooding.

SS B=Stainless Steel Baler, D B=Disposable Baler, P=Low flow Pump, PD=Purged Dry

VT=Very Turbid, MT=Moderately Turbid, ST=Slightly Turbid, C=Clear

NR=No Reading Attempted, NS=No Sample Obtained