Semi-Annual Water Quality Monitoring Report

Prepared for

Wayne County Subtitle D Lined MSWLF
Dudley, North Carolina

February 2014

Permit Number: 96-06
MESCO Project Number: G13016.0

Submittal Date: April 24, 2014

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

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

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

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

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

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

Instructions:

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

Solid Waste Monitoring Data Submittal Information

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

Municipal Engineering Services Co., PA

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

Name: Jonathan Pfohl Phone: (919) 772-5393

E-mail: jpfohl@mesco.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Wayne County Subtitle D Lined MSWLF, Phases 1, 2 & 3	460-B South Landfill Road Dudley, NC 28333	96-06	.1600	February 10-11 & 14, 2014

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. (Preliminary cause of total cadmium exceedances is not anthropogenic)
☐ 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.

Steven R. Gandy, Ph.D., P.E. Senior Project Manager (919) 772-5393

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

Signature 4/24/14 Date

Affix NC Licensed/ Professional Geologist Seal

NORTH CAROLINA PROFESSIONAL SEAL 031020 ENGINEER STEVEN RAY GANDY

P.O. Box 97, Garner NC 27529

Facility Representative Address

C-0281

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

Revised 6/2009

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License No. C-0281

CIVIL/SANITARY/ENVIRONMENTAL ENGINEERS

SOLID WASTE MANAGEMENT

Municipal Services

Engineering Company, P.A.

SITE PLANNING/SUBDIVISIONS

SUBSURFACE UTILITY ENGINEERING (SUE)

Ms. Jaclynne Drummond
Solid Waste Section
Division of Waste Management
North Carolina Department of Environment and Natural Resources
217 West Jones Street
Raleigh, NC 27603

April 24, 2014

Re: ***Semi-Annual Water Quality Monitoring Report***
Wayne County Subtitle D Lined MSWLF
Permit No. 96-06
MESCO Project No. G13016.0
Event Date(s): February 10-11 & 14, 2014

Introduction

On behalf of Wayne County, Municipal Engineering Services Company, P.A. (MESCO) is pleased to present this *Semi-Annual Water Quality Report* for the winter 2014 event performed at the Wayne County Subtitle D Lined Municipal Solid Waste Landfill (MSWLF). NCDENR Solid Waste Rules 15A NCAC 13B.1632 require that Wayne County provide this report to the NC SWS on a semi-annual basis. This report documents the quality of the ground, surface waters and leachate during this monitoring event performed on February 10-11 & 14, 2014.

During this event only a few metals were detected in groundwater samples collected both upgradient and downgradient of the landfill. The preliminary cause of the detected metals is not believed to be anthropogenic but rather a product of erosion of natural deposits. Surface water samples lacked targeted constituents in levels exceeding (2B) Standards.

Background

The Wayne County Subtitle D lined MSWLF, permit #96-06 (Phases 1-3), is located at 460-B South Landfill Road, Dudley, Wayne County, North Carolina. The lined MSWLF is comprised of contiguous Phases 1, 2 & 3 which are treated as a single unit in this report. Phase 3 was granted a Permit to Operate (PTO) on June 11, 2013 and at the time of this event only a relatively small amount of waste had been placed within the east sump drainage area which is hydraulically divided from the west sump. Waste is planned to continue to be placed only on the eastern side of the divide for at least the next year. Therefore, until waste is placed west side of the divide any detections in wells that monitor the west sump (MW-14 and MW-15) should not be attributed to leachate.

The lined landfill is located west and beyond a perennial local discharge feature from a C&D landfill operating upon an unlined landfill which is monitored separately under Permit #96-01. The site location topographic map is depicted in the attached **Figure 1**.

Water quality at this facility has been monitored at least semi-annually including several pre-operation baseline events with complete historical data available since prior to operation of Phase 1 in 1997. This event was performed in accordance with the NC SWS rules/regulations as promulgated in 15A NCAC 13B and as a condition of the permit to operate.

As specified in 15A NCAC 13B.1632(i) and the SWS Environmental Monitoring Report Form, this report contains sampling procedures, field and laboratory results, groundwater and surface water characterization, and findings. Detections compared to standards tables, hyrdrogeologic 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.

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

Sampling Procedure

Samples were collected in accordance with the *Ground and Surface Water Sampling & Analysis Plan* (SAP) [DIN 13717] dated April 25, 2011 and approved by the SWS on May 19, 2011 [DIN 13957]. The site specific SAP includes water sample collection and analysis from twelve downgradient monitoring wells (MW-2 through MW-16R), one background well (MW-1), four surface water locations (SW-2, SW-3, SW-4 and SW-5) and a leachate sample (LE-1). MW-16 was abandoned and replaced by MW-16R as pre-authorized by SWS [DIN 19050] on June 4, 2013 and this is the second time samples have been collected from MW-16R. Surface water point SW-1, located downstream of SW-3, monitors the unnamed tributary of Edward's Branch as part of the Active C&D and Closed MSWLF SAP. Sampling results are presented as supplementary data due to the shared discharge features. Quality control measures, which included analysis of equipment blank samples (EB), field blank samples (FB), and trip blank samples (TB) were also reported. Monitoring locations are depicted on the single-day potentiometric map, **Figure 2**.

Monitoring location function and integrity were visually evaluated with deficiencies rectified and improvements implemented as documented on **Table 5.** 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 used 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 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. All method specific hold times were met except for BOD and nitrate in the leachate sample (LE-1). Pace failed to transport the BOD and nitrate samples to the laboratory in a timely manner due to hazardous travel conditions. However, all results are presented for completeness.

Field Parameter Data

Stabilized field parameters were recorded during purging which included pH, specific conductance, temperature, oxidation reduction potential (ORP), total dissolved solids (TDS) and visual turbidity. A summary of the field parameter data is presented in **Table 6** 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. Groundwater and surface water samples were analyzed for the constituents listed in 40 CFR 258 Appendix I including volatile organic compounds (VOCs) by EPA Test Method 8260 and total unfiltered metals by EPA Test Method series 6000/7000. Quality control samples were tested for the VOC and total metal constituents listed in 40 CFR 258 Appendix II. Additionally, groundwater sample (MW-11) was analyzed for dissolved total metals since the reported concentration of total recoverable cadmium was elevated. Leachate samples (LE-1) were analyzed for a leachate specific list that includes Appendix I parameters, nitrate, phosphorus, chemical oxygen demand (COD), biological oxygen demand (BOD), sulfate, and pH. A sampling and analysis table summarizing the locations, constituents, and methods is presented on **Table 1**.

Water samples were analyzed to the laboratory-established Method Detection Limits (MDL), which are at or below the current Solid Waste Section Limit (SWSL). **Table 2** summarizes constituents detected in groundwater and surface water samples that attain or were above the current SWSL, Groundwater Protection Standards (GWP), North Carolina Groundwater Standards (2L) or the applicable North Carolina Surface Water Standards (2B) for a class C waterbody. Laboratory results and C-O-Cs are presented in **Appendix A**.

Quality Control Samples

One or more of the quality control samples EB, FB and TB contained methylene chloride (DCM), total cyanide and total zinc. Since none of the constituents identified in the blanks were detected above regulatory Standards in any ground or surface water samples collected at the lined landfill any potential field/lab induced artifact contamination is non-consequential.

Groundwater Samples

Total recoverable cadmium was detected in samples MW-11 (2.8 μg/L) and MW-15 (10.1 μg/L) in concentrations above the 2L standard (2.0 μg/L). Further analysis of sample MW-11 indicates dissolved cadmium was detected at 1.1 μg/L which is below the allowable Standard. Dissolved metals are more mobile in groundwater thus more applicable to 2L Standard comparisons.

Surface Water Samples

None of the surface water samples contained detections exceeding the established 2B Standards.

Leachate Samples

The leachate grab sample (LE-1) which source is an equal composite of Phases 1-3 contained quantifiable concentrations (>SWSL) of a total of five total metals and seven VOCs as listed in **Table 3**. Total cadmium, the lone parameter detected in exceedance of it's 2L Standard in two groundwater samples has never been detected in quantifiable concentrations in any current or previous leachate samples. Consistent with previous results the concentrations of analytes detected in the leachate samples are much lower then averages of leachate from comparable facilities as published by the EPA [1].

Groundwater and Surface Water Characterization

MESCO prepared a potentiometric map using groundwater elevation data from the uppermost aquifer measured during this event (**Figure 2**). Groundwater velocity rates and directions were calculated and are included on **Table 4**. Consistent with historical observations groundwater flows from the southwest towards Edward's Branch, which serves as the local discharge feature. Groundwater velocity rates ranged from less than 2 feet/year (MW-15) to 80 feet/year (MW-13) averaging approximately 26 feet/year. Streams located within the facility boundaries were visually observed at low seasonal flow, low volume and low turbidity.

Findings

The laboratory results indicate that neither the groundwater nor surface waters have been impacted by landfill activities. Several lines of evidence indicate that the few elevated detections of total cadmium are attributed to erosion of natural deposits. Lines of evidence include previous detections within upgradient background samples, detections in most of the pre-operation baseline samples, MW-15 monitors the western sump of new Phase 3 which has yet to be exposed to leachate, levels of dissolved cadmium were in compliant levels in sample MW-11 and cadmium has never been reported in any leachate samples.

Closing

Wayne County will continue semi-annual water quality detection monitoring unless the SWS requests a change and the next event is tentatively scheduled for August 2014. If you have any questions or comments regarding this report, please contact us at (919) 772-5393 or by email at jpfohl@mesco.com or sgandy@mesco.com.

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

Jonathan Pfohl
Environmental Specialist

Steven R. Gandy, Ph.D., P.E.
Senior Project Manager

Enclosures

cc: Mr. Tim Rogers
Wayne County

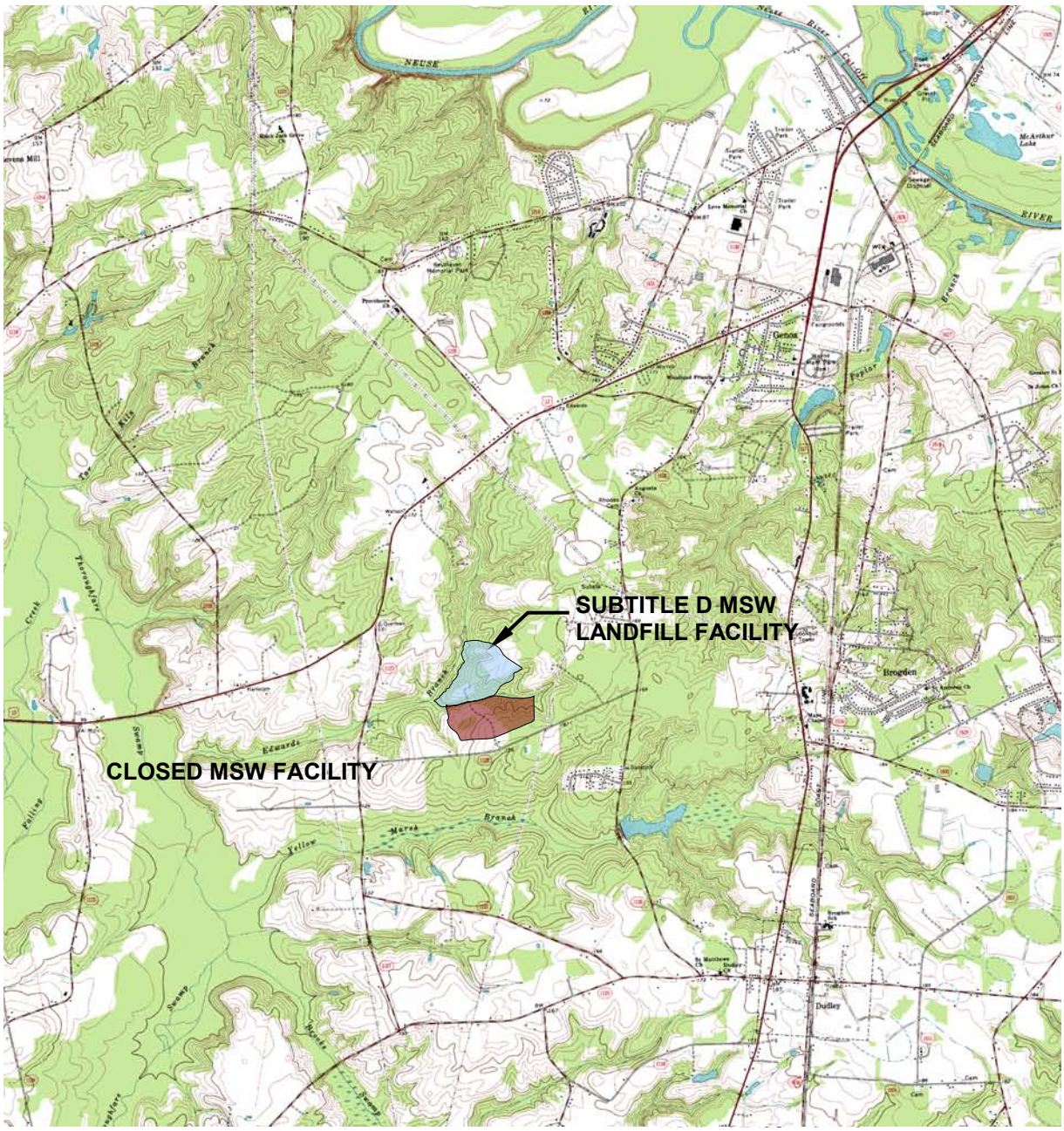
[1] 1988 EPA document-Summary of Data on MSWLFLeachate Characteristics – EPA/530-SW-88-038

Figures

Topographic Map with Site Location

Wayne County Landfill North Carolina (Dudley)

N



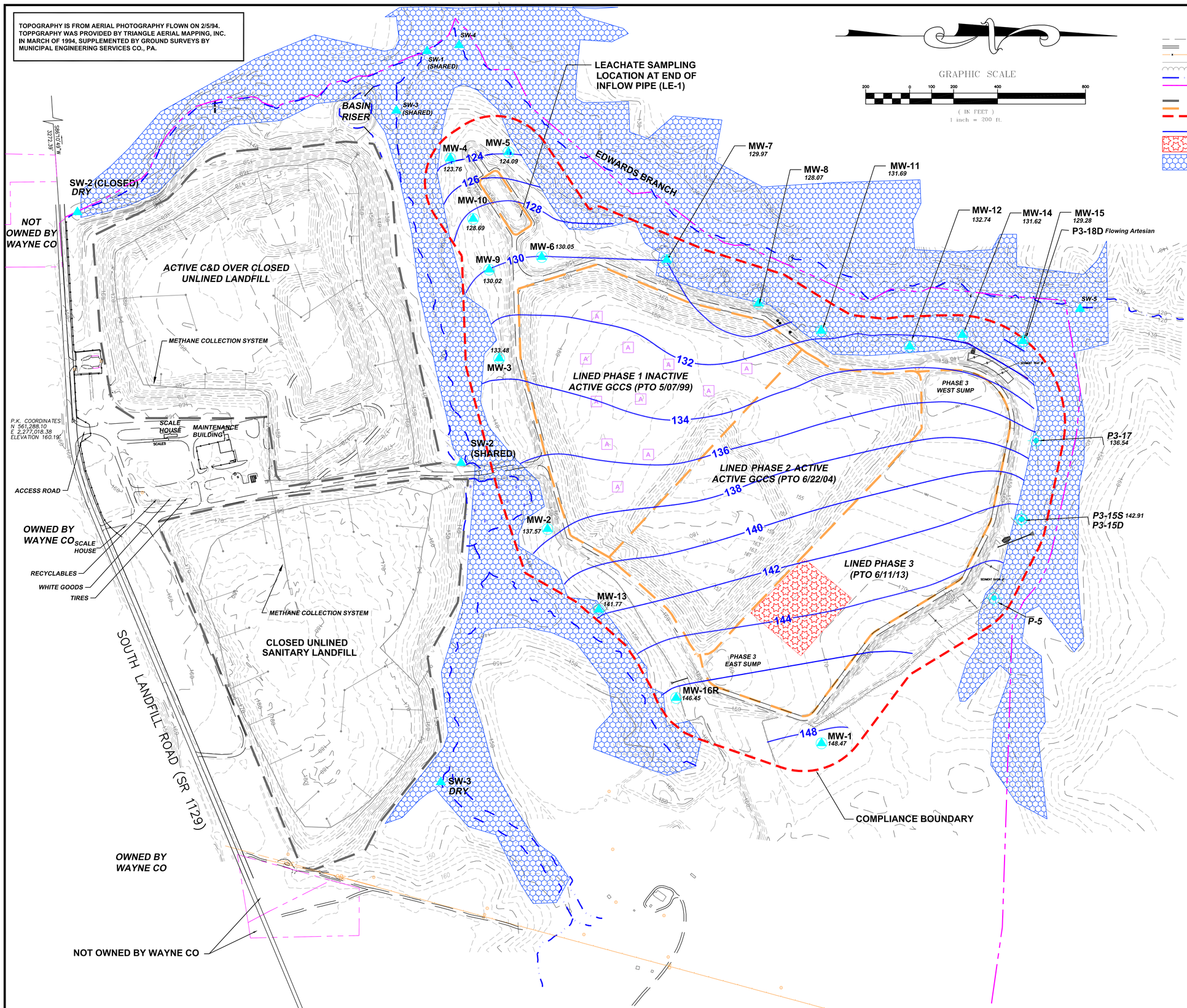
460 B South Landfill Rd
Dudley, NC 28333
Lat:35-17-19.1338
Long:-78-04-17.2971
Northing:561283.19
Easting:2277068.62

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

1 0 1 MILE

FIGURE 1

TOPOGRAPHY IS FROM AERIAL PHOTOGRAPHY FLOWN ON 2/5/94. TOPPGRAPHY WAS PROVIDED BY TRIANGLE AERIAL MAPPING, INC. IN MARCH OF 1994, SUPPLEMENTED BY GROUND SURVEYS BY MUNICIPAL ENGINEERING SERVICES CO., PA.



LEGEND

- EXISTING TOPOGRAPHIC CONTOURS
- EXISITING ROAD/PATH
- EXISTING CHAINLINK FENCE
- TREE LINE (AERIAL MAPPING)
- TREE LINE (SURVEYED)
- EXISTING CREEK, STREAM, ETC.
- EXISTING PROPERTY LINE
- CLOSED MSWLF, ESTIMATED EXTENT OF WASTE
- LINED MSWLF PHASE LIMITS
- COMPLIANCE BOUNDARY
- 130 POTENTIOMETRIC GROUNDWATER CONTOUR
- APPROXIMATE WASTE IN PH 3 ON FEB. 11, 2014
- WETLANDS
- SURFACE WATER SAMPLING LOCATION
- MONITORING WELL
- ACTIVE LFG EXTRACTION WELL
- PIEZOMETER SYMBOL
- LE-1 LEACHATE SAMPLE LOCATION

Groundwater Elevations
February 11, 2014

WELL #	TOP OF WELL CASING ELEVATION (FT AMSL)	DEPTH TO WATER (FT)	GROUND WATER ELEVATION (FT AMSL)
MW-1	164.51	16.04	148.47
MW-2	147.27	9.70	137.57
MW-3	138.50	7.65	130.85
MW-4	139.80	16.04	123.76
MW-5	140.15	16.06	124.09
MW-6	146.58	16.53	130.05
MW-7	135.89	5.92	129.97
MW-8	135.25	7.18	128.07
MW-9	141.31	11.29	130.02
MW-10	141.43	12.74	128.69
MW-11	134.76	3.07	131.69
MW-12	135.19	2.45	132.74
MW-13	149.89	8.12	141.77
MW-14	137.51	5.89	131.62
MW-15	131.74	2.46	129.28
MW-16R	160.39	14.75	145.64

FIGURE 2

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

SUBTITLE D LINED MSWLf FACILITY
WAYNE COUNTY NORTH CAROLINA

DATE	BY	REV.	DESCRIPTION

POTENTIOMETRIC MAP OF UPPERMOST AQUIFER

SCALE: SEE BAR SCALE
DATE: 3/21/14
DRWN. BY: J. PFOHL
CHKD. BY: S. GANDY
PROJECT NUMBER G13016
DRAWING NO. FIGURE 2
SHEET NO. 1 OF 1

Tables

Table 1
Sampling and Analysis Summary
February 10-11 & 14, 2014

		App. I		Field Parameter							Leachate						App. II		
	Reason Not Sampled	VOCs	Total Metals	Dissolved Oxygen (DO)	Oxidation Reduction Potential (ORP)	Temperature	Conductivity	Total Dissolved Solids (TDS)	pH	Turbidity	Sulfate	pH	Phosphorus	BOD, 5 day	COD	Nitrate	VOCs	Total Cyanide	Total Metals
		Lab EPA 8260B	Lab EPA 6000/7000	Field Meter	Field Meter	Field Meter	Field Meter	Field Meter	Field Meter	Field Visual	Lab EPA 300.0	Lab EPA9040	Lab EPA365.1	Lab SM 5210B	Lab SM 5220D	Lab EPA 353.2	Lab EPA 8260B	Lab EPA 9014	Lab EPA 6000/7000
MW-1		x	x		x	x	x	x	x	x									
MW-2		x	x		x	x	x	x	x	x									
MW-3		x	x		x	x	x	x	x	x									
MW-4		x	x		x	x	x	x	x	x									
MW-5		x	x		x	x	x	x	x	x									
MW-6		x	x		x	x	x	x	x	x									
MW-7		x	x		x	x	x	x	x	x									
MW-8		x	x		x	x	x	x	x	x									
MW-9		x	x		x	x	x	x	x	x									
MW-10		x	x		x	x	x	x	x	x									
MW-11		x	x		x	x	x	x	x	x									
MW-12		x	x		x	x	x	x	x	x									
MW-13		x	x		x	x	x	x	x	x									
MW-14		x	x		x	x	x	x	x	x									
MW-15		x	x		x	x	x	x	x	x									
MW-16R		x	x		x	x	x	x	x	x									
SW-1		x	x		x	x	x	x	x	x									
SW-2		x	x		x	x	x	x	x	x									
SW-3	Dry																		
SW-3		x	x		x	x	x	x	x	x									
SW-4		x	x		x	x	x	x	x	x									
SW-5		x	x		x	x	x	x	x	x									
LE-1		x	x								x	x	x	x	x	x			
EB																	x	x	x
FB																	x		x
TB																	x		

Appendix I & II = List from current 40 CFR 258

Table 2
Detections in Water Samples that attain or above SWSL, GWP, 2L or 2B (Appendix I)
February 10-11 & 14, 2014

Sample ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [2]	SWSL [3]	2L [4]	2B [5]	GWP [6]	Exceedance Amount	Preliminary Cause [7]
MW-1	Vanadium, total	2/11/14	13.8	ug/L	5	25			3.5	10.3	
MW-1	Zinc, total	2/11/14	31	ug/L	10	10	1000				
MW-2	Barium, total	2/11/14	130	ug/L	5	100	700				
MW-3	Zinc, total	2/11/14	12.6	ug/L	10	10	1000				
MW-4	Zinc, total	2/11/14	13.1	ug/L	10	10	1000				
MW-6	Zinc, total	2/11/14	20.1	ug/L	10	10	1000				
MW-7	Cadmium, total	2/11/14	1.5	ug/L	1	1	2				
MW-7	Zinc, total	2/11/14	12.8	ug/L	10	10	1000				
MW-9	Zinc, total	2/11/14	16.8	ug/L	10	10	1000				
MW-10	Zinc, total	2/11/14	17.8	ug/L	10	10	1000				
MW-11	**Cadmium, total**	**2/14/14**	**2.8**	**ug/L**	**1**	**1**	**2**			**0.8**	**Natural**
MW-11	Cadmium, dissolved	2/14/14	1.1	ug/L	0.5	1	2				
MW-12	Barium, total	2/14/14	115	ug/L	5	100	700				
MW-12	Cadmium, total	2/14/14	1.8	ug/L	1	1	2				
MW-12	Cobalt, total	2/14/14	51.8	ug/L	5	10			70		
MW-12	Zinc, total	2/14/14	11.2	ug/L	10	10	1000				
MW-15	Zinc, total	2/11/14	11.2	ug/L	10	10	1000				
MW-15	**Cadmium, total**	**2/11/14**	**10.1**	**ug/L**	**1**	**1**	**2**			**8.1**	**Natural**

Sample ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [2]	SWSL [3]	2L [4]	2B [5]	GWP [6]	Exceedance Amount	Preliminary Cause [7]
SW-2	Zinc, total	2/10/14	16.4	ug/L	10	10		50			
SW-3	Zinc, total	2/10/14	20.2	ug/L	10	10		50			
SW-4	Zinc, total	2/10/14	20.4	ug/L	10	10		50			
SW-5	Cadmium, total	2/10/14	62.7	ug/L	1	1		2			
SW-5	Barium, total	2/10/14	124	ug/L	5	100		2000000			
SW-5	Zinc, total	2/10/14	25.4	ug/L	10	10		50			
TB	Methylene Chloride	2/14/14	0.99	ug/L	0.97	1	4.6				
EB	Methylene Chloride	2/14/14	2.8	ug/L	0.97	1	4.6				
FB	Zinc, total	2/14/14	19.5	ug/L	10	10	1000				
FB	Methylene Chloride	2/14/14	2.8	ug/L	0.97	1	4.6				

[1] Table contains Appendix I constituents detected at or 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

Natural= Originates from erosion of natural deposits

BOLD = Concentration > 2L, or 2B Standard

Table 3
Detections in Leachate Samples Above SWSL, GWP, 2L, or 2B
February 11, 2014

Sample ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [2]	SWSL [3]	2L [4]	2B [5]	GWP [6]	"Average Leachate" [7]
LE-1	Zinc, total	2/11/14	18.9	ug/L	10	10	1,000	50	NE	8,320
LE-1	Chromium, total	2/11/14	17.1	ug/L	5	10	10	50	NE	175
LE-1	Vanadium, total	2/11/14	6.5 j	ug/L	5	25	NE	NE	3.5	17.9
LE-1	Antimony, total	2/11/14	25.7	ug/L	5	6	NE	640	NE	4,520
LE-1	Arsenic, total	2/11/14	18.9	ug/L	5	10	10	10	NE	41.8
LE-1	Barium, total	2/11/14	124	ug/L	5	100	700	200,000	NE	850
LE-1	1,4-Dichlorobenzene	2/11/14	2.4	ug/L	0	1	6	100	NE	13.2
LE-1	2-Butanone (MEK)	2/11/14	116	ug/L	1	100	4,200	160,000	NE	4,151
LE-1	Toluene	2/11/14	6.5	ug/L	0	1	600	11	NE	1,016
LE-1	Acetone	2/11/14	116	ug/L	10	100	6,000	2,000	NE	NE
LE-1	Xylene (Total)	2/11/14	23.7	ug/L	1	5	530	670	NE	NE
LE-1	1,2-Dichloroethane	2/11/14	0.75 j	ug/L	0	1	0	37	NE	1,841
LE-1	Ethylbenzene	2/11/14	8.8	ug/L	0	1	550	NE	NE	274
LE-1	Benzene	2/11/14	7	ug/L	0	1	1	51	NE	221
LE-1	PH (Lab)	2/11/14	7	ug/L	0	NE	6.5-8.5	NE	NE	6.79
LE-1	BOD, 5 day	2/11/14	34,600	ug/L	2,000	NE	NE	NE	NE	3,837,000
LE-1	COD	2/11/14	470,000	ug/L	25,000	NE	NE	NE	NE	4,773,000
LE-1	Phosphorus	2/11/14	790	ug/L	50	NE	NE	NE	NE	7820
LE-1	Nitrate	2/11/14	ND <20	ug/L	20	1000	NE	NE	NE	1880

[1] Table contains only constituents detected at or 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 the Nearest Potential Specific Stream Classification

[6] GWP = Groundwater Protection Standard

[7] Average concentration of leachate from a comparable "Dry Tomb" Landfill published by EPA document *Summary of Data on MSWLF Leachate Characteristics IN 1988*

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

NE = Not Established

Table 4
Hydrologic Properties at Monitoring Well Locations
February 11, 2014

Monitoring Well	Hydraulic Conductivity (cm/sec)	Effective Porosity (%)	Hydraulic Gradient (ft/ft)	Flow Rate (ft/yr)	Flow Direction	Depth to Groundwater (ft btoc)	Groundwater Potentiometric Elevation (ft amsl)
MW-1	3.21E-04	31	0.0081	9	S77W	16.04	148.47
MW-2	1.37E-03	31	0.0100	46	S52W	9.70	137.57
MW-3	9.72E-04	31	0.0122	40	S84W	7.65	130.85
MW-4	2.33E-04	9	0.0141	38	S70W	16.04	123.76
MW-5	1.45E-04	9	0.0150	25	S89W	16.06	124.09
MW-6	8.38E-05	31	0.0125	3	S85W	16.53	130.05
MW-7	6.84E-05	9	0.0050	4	N66W	5.92	129.97
MW-8	1.68E-04	9	0.0147	28	S65W	7.18	128.07
MW-9	6.37E-04	31	0.0067	14	S47W	11.29	130.02
MW-10	4.74E-04	31	0.0223	35	S47W	12.74	128.69
MW-11	1.46E-04	22	0.0483	33	S84W	3.07	131.69
MW-12	1.63E-04	22	0.0142	11	N89W	2.45	132.74
MW-13	2.14E-03	22	0.0079	80	S44W	8.12	141.77
MW-14	2.63E-04	22	0.0119	15	N76W	5.89	131.62
MW-15	1.82E-05	22	0.0204	2	N56W	2.46	129.28
MW-16R	na	22	0.0077	na	S54W	14.75	145.64
Minimum	1.82E-05	9	0.0050	2	-	2.45	123.76
Average	4.80E-04	22	0.0144	26	-	9.74	132.77
Maximum	2.14E-03	31	0.0483	80	-	16.53	148.47

NOTE: Effective porosity values from *Design Hydrogeologic Studies* for Wayne County.

Hydraulic Conductivity values from slug tests performed on each monitoring well.

Hydrologic gradient calculated from groundwater elevations recorded on February 11, 2014.

Average Linear Velocity rate (Q) is defined by modified Darcy's equation:

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

K= hydraulic conductivity

ne= effective porosity

dh= head difference

dl= horizontal distance

Table 5
Field Observations of Monitoring Locations
February 10-11 & 14, 2014

Sample Location	Viable Monitoring Location	Lack of Any Evidence of Tampering	Locked	Hinge/Hasp Operational	Tagged or Labeled	Concrete Surface Pad Assumed Effective	Comments
MW-1	Yes	Yes	Yes	Yes	Yes	Yes	LR
MW-2	Yes	Yes	Yes	Yes	Yes	Yes	LR & PB. Sediment removed by County since August 2013
MW-3	Yes	Yes	Yes	Yes	Yes	Yes	LR & PB. See comments below
MW-4	Yes	Yes	Yes	Yes	Yes	Yes	LR & PB
MW-5	Yes	Yes	Yes	Yes	Yes	Yes	LR
MW-6	Yes	Yes	Yes	Yes	Yes	Yes	LR
MW-7	Yes	Yes	Yes	Yes	Yes	Yes	LR Purge water red algae. Adjacent to sediment basin.
MW-8	Yes	Yes	Yes	Yes	Yes	Yes	LR
MW-9	Yes	Yes	Yes	Yes	Yes	Yes	LR & PB
MW-10	Yes	Yes	Yes	Yes	Yes	Yes	LR & PB
MW-11	Yes	Yes	Yes	Yes	Yes	Yes	LR
MW-12	Yes	Yes	Yes	Yes	Yes	Yes	LR
MW-13	Yes	Yes	Yes	Yes	Yes	Yes	LR & PY
MW-14	Yes	Yes	Yes	Yes	Yes	Yes	LR Ph 3 well
MW-15	Yes	Yes	Yes	Yes	Yes	Yes	LR Ph 3 well
MW-16R	Yes	Yes	Yes	Yes	Yes	Yes	LR Ph 3 well
LE-1	Yes	-	-	-	-	-	Leachate lagoon sample
SW-1	Yes	-	-	-	-	-	Shared Downstream of SW-3
SW-2	Yes	-	-	-	-	-	Shared nearest lined MW-2
SW-3	Yes	-	-	-	-	-	Shared downstream of SW-2
SW-3	No	-	-	-	-	-	Shared Upstream furthest east Dry
SW-4	Yes	-	-	-	-	-	Downstream of Ph 1 on Edward's Branch
SW-5	Yes	-	-	-	-	-	More defined channel than events prior to August 2013.

Any unusual field conditions, observations, or events:

Phase 3 now in operation. Waste placed only on the east side of divide. Leachate potential negligible near MW-14 and MW-15.
Adjoiner west of Edwards Branch across from Ph 2 & 3 has cleared forest since 9/12. Adjoiner may potentially impact wetlands.
PB = Painted Blue by County since August 2013.
PY = Painted Blue by County since August 2012.
LR = Lock replaced since August 2013.
County replaced pad and case around MW-3 in August 2013. Riser extended 2.63' so top of casing now 141.13 ft amsl.

Table 6
Field Parameter Data Summary
February 10-11 & 14, 2014

Parameter	Depth to Water	Water Elevation	TOC Elevation	Temp.	ORP	DO	pH	Specific Conductance	TDS	Turbidity
Units	**ft (btoc)**	**ft (amsl)**	**ft (amsl)**	**C**	**mV**	**mg/L**	**SU**	**µs/cm**	**ppt**	**visual**
MW-1	16.04	148.47	164.51	16.4	303	NR	4.93	20	10	Moderate
MW-2	9.70	137.57	147.27	14.9	19	NR	5.85	410	200	Slight
MW-3	7.65	133.48	141.13	14.8	87	NR	5.31	20	10	Slight
MW-4	16.04	123.76	139.80	16.4	203	NR	4.82	10	0	Clear
MW-5	16.06	124.09	140.15	15.6	139	NR	5.01	0	0	Clear
MW-6	16.53	130.05	146.58	15.9	203	NR	4.81	0	0	Clear
MW-7	5.92	129.97	135.89	15.4	8	NR	6.03	200	90	Slight
MW-8	7.18	128.07	135.25	15.2	209	NR	4.85	20	10	Clear
MW-9	11.29	130.02	141.31	15.3	301	NR	4.58	0	0	Slight
MW-10	12.74	128.69	141.43	16.1	301	NR	5.21	0	0	Slight
MW-11	3.07	131.69	134.76	15.1	301	NR	5.14	0	0	Slight
MW-12	2.45	132.74	135.19	14.4	225	NR	4.75	10	0	Slight
MW-13	8.12	141.77	149.89	14.8	198	NR	4.81	40	20	Clear
MW-14	5.89	131.62	137.51	15.6	281	NR	5.53	80	30	Slight
MW-15	2.46	129.28	131.74	15.3	287	NR	5.41	70	30	Clear
MW-16R	14.75	145.64	160.39	16.1	297	NR	5.23	10	0	Slight
Minimum	2.45	123.76	131.74	14.4	8	NR	4.58	0	0	Clear
Average	9.74	132.93	142.68	15.5	210	NR	5.14	56	25	Slight
Maximum	16.53	148.47	164.51	16.4	303	NR	6.03	410	200	Moderate
SW-1	-	-	-	10.1	203	6.3	6.63	230	110	Clear
SW-2	-	-	-	10.7	201	6.4	6.91	80	30	Clear
SW-3	-	-	-	10.5	199	6.3	6.89	60	20	Clear
SW-4	-	-	-	9.9	201	NR	6.81	60	20	Clear
SW-5	-	-	-	10.1	199	NR	6.65	60	20	Clear
Minimum	-	-	-	9.9	199	6.3	6.63	60	20	Clear
Average	-	-	-	10.3	201	6.3	6.78	98	40	Clear
Maximum	-	-	-	10.7	203	6.4	6.91	230	110	Clear

NR = No Reading Attempted

Appendix A
Laboratory Analysis Reports
Chains of Custody

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

February 27, 2014

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

RE: Project: Wayne Lined MSWLF
Pace Project No.: 92189694

Dear Mr. Pfohl:
Enclosed are the analytical results for sample(s) received by the laboratory between February 14, 2014 and February 18, 2014. 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:	Wayne Lined MSWLF
Pace Project No.:	92189694

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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(704)875-9092

SAMPLE SUMMARY

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92189694001	**MW-1**	Water	02/11/14 09:30	02/14/14 11:30
92189694002	**MW-2**	Water	02/11/14 15:40	02/14/14 11:30
92189694003	**MW-3**	Water	02/11/14 15:00	02/14/14 11:30
92189694004	**MW-4**	Water	02/11/14 13:00	02/14/14 11:30
92189694005	**MW-5**	Water	02/11/14 13:35	02/14/14 11:30
92189694006	**MW-6**	Water	02/11/14 14:00	02/14/14 11:30
92189694007	**MW-7**	Water	02/11/14 14:35	02/14/14 11:30
92189694008	**MW-9**	Water	02/11/14 11:40	02/14/14 11:30
92189694009	**MW-10**	Water	02/11/14 11:00	02/14/14 11:30
92189694010	**MW-15**	Water	02/11/14 10:05	02/14/14 11:30
92189694011	**SW-4**	Water	02/10/14 17:30	02/14/14 11:30
92189694012	**SW-5**	Water	02/10/14 17:05	02/14/14 11:30
92189694013	**LE-1**	Water	02/11/14 16:05	02/14/14 11:30
92189694014	**MW-8**	Water	02/14/14 10:35	02/18/14 13:00
92189694015	**MW-11**	Water	02/14/14 11:05	02/18/14 13:00
92189694016	**MW-12**	Water	02/14/14 13:35	02/18/14 13:00
92189694017	**MW-13**	Water	02/14/14 12:00	02/18/14 13:00
92189694018	**MW-14**	Water	02/14/14 14:00	02/18/14 13:00
92189694019	**MW-16R**	Water	02/14/14 15:10	02/18/14 13:00

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SAMPLE ANALYTE COUNT

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92189694001	**MW-1**	EPA 6010	SH1	15	PASI-A
		EPA 8260	MCK	51	PASI-C
92189694002	**MW-2**	EPA 6010	SH1	15	PASI-A
		EPA 8260	MCK	51	PASI-C
92189694003	**MW-3**	EPA 6010	SH1	15	PASI-A
		EPA 8260	MCK	51	PASI-C
92189694004	**MW-4**	EPA 6010	SH1	15	PASI-A
		EPA 8260	MCK	51	PASI-C
92189694005	**MW-5**	EPA 6010	SH1	15	PASI-A
		EPA 8260	MCK	51	PASI-C
92189694006	**MW-6**	EPA 6010	SH1	15	PASI-A
		EPA 8260	MCK	51	PASI-C
92189694007	**MW-7**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	51	PASI-C
92189694008	**MW-9**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	51	PASI-C
92189694009	**MW-10**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	51	PASI-C
92189694010	**MW-15**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	51	PASI-C
92189694011	**SW-4**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	51	PASI-C
92189694012	**SW-5**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	51	PASI-C
92189694013	**LE-1**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	51	PASI-C
		SM 5210B	DAS	1	PASI-A
		EPA 9040	MDW	1	PASI-A
		EPA 300.0	SAE	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		EPA 365.1	JDA	1	PASI-A
		SM 5220D	EWS	1	PASI-A
92189694014	**MW-8**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	51	PASI-C
92189694015	**MW-11**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	51	PASI-C
92189694016	**MW-12**	EPA 6010	JMW	15	PASI-A

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SAMPLE ANALYTE COUNT

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260	MCK	51	PASI-C
92189694017	**MW-13**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	51	PASI-C
92189694018	**MW-14**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	51	PASI-C
92189694019	**MW-16R**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	51	PASI-C

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ANALYTICAL RESULTS

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

Sample: MW-1 **Lab ID: 92189694001** Collected: 02/11/14 09:30 Received: 02/14/14 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	02/15/14 10:10	02/18/14 02:30	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/18/14 02:30	7440-38-2	
Barium	**18.8J**	ug/L	100	5.0	1	02/15/14 10:10	02/18/14 02:30	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	02/15/14 10:10	02/18/14 02:30	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	02/15/14 10:10	02/18/14 02:30	7440-43-9	
Chromium	**5.4J**	ug/L	10.0	5.0	1	02/15/14 10:10	02/18/14 02:30	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/18/14 02:30	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/18/14 02:30	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/18/14 02:30	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	02/15/14 10:10	02/18/14 02:30	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/15/14 10:10	02/18/14 02:30	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/18/14 02:30	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	02/15/14 10:10	02/18/14 02:30	7440-28-0	
Vanadium	**13.8J**	ug/L	25.0	5.0	1	02/15/14 10:10	02/18/14 02:30	7440-62-2	
Zinc	**31.0**	ug/L	10.0	10.0	1	02/15/14 10:10	02/18/14 02:30	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/16/14 00:13	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/16/14 00:13	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/16/14 00:13	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/16/14 00:13	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/16/14 00:13	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/16/14 00:13	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/16/14 00:13	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/16/14 00:13	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/16/14 00:13	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/16/14 00:13	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/16/14 00:13	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/16/14 00:13	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/16/14 00:13	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/16/14 00:13	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/16/14 00:13	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/16/14 00:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/16/14 00:13	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/16/14 00:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/16/14 00:13	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/16/14 00:13	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/16/14 00:13	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/16/14 00:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/16/14 00:13	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/16/14 00:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/16/14 00:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/16/14 00:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/16/14 00:13	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/16/14 00:13	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/16/14 00:13	10061-01-5	

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ANALYTICAL RESULTS

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

Sample: MW-1 **Lab ID: 92189694001** Collected: 02/11/14 09:30 Received: 02/14/14 11:30 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		02/16/14 00:13	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/16/14 00:13	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/16/14 00:13	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/16/14 00:13	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/16/14 00:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/16/14 00:13	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/16/14 00:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/16/14 00:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/16/14 00:13	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/16/14 00:13	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/16/14 00:13	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/16/14 00:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/16/14 00:13	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/16/14 00:13	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/16/14 00:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/16/14 00:13	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/16/14 00:13	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/16/14 00:13	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/16/14 00:13	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		02/16/14 00:13	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		02/16/14 00:13	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		02/16/14 00:13	2037-26-5	

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ANALYTICAL RESULTS

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

Sample: MW-2 **Lab ID: 92189694002** Collected: 02/11/14 15:40 Received: 02/14/14 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	02/15/14 10:10	02/18/14 02:35	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/18/14 02:35	7440-38-2	
Barium	**130**	ug/L	100	5.0	1	02/15/14 10:10	02/18/14 02:35	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	02/15/14 10:10	02/18/14 02:35	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	02/15/14 10:10	02/18/14 02:35	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/18/14 02:35	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/18/14 02:35	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/18/14 02:35	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/18/14 02:35	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	02/15/14 10:10	02/18/14 02:35	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/15/14 10:10	02/18/14 02:35	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/18/14 02:35	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	02/15/14 10:10	02/18/14 02:35	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	02/15/14 10:10	02/18/14 02:35	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	02/15/14 10:10	02/18/14 02:35	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/16/14 00:29	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/16/14 00:29	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/16/14 00:29	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/16/14 00:29	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/16/14 00:29	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/16/14 00:29	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/16/14 00:29	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/16/14 00:29	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/16/14 00:29	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/16/14 00:29	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/16/14 00:29	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/16/14 00:29	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/16/14 00:29	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/16/14 00:29	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/16/14 00:29	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/16/14 00:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/16/14 00:29	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/16/14 00:29	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/16/14 00:29	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/16/14 00:29	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/16/14 00:29	110-57-6	
1,1-Dichloroethane	**0.32J**	ug/L	5.0	0.32	1		02/16/14 00:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/16/14 00:29	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/16/14 00:29	75-35-4	
cis-1,2-Dichloroethene	**0.24J**	ug/L	5.0	0.19	1		02/16/14 00:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/16/14 00:29	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/16/14 00:29	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/16/14 00:29	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/16/14 00:29	10061-01-5	

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ANALYTICAL RESULTS

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

Sample: MW-2 **Lab ID: 92189694002** Collected: 02/11/14 15:40 Received: 02/14/14 11:30 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		02/16/14 00:29	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/16/14 00:29	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/16/14 00:29	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/16/14 00:29	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/16/14 00:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/16/14 00:29	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/16/14 00:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/16/14 00:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/16/14 00:29	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/16/14 00:29	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/16/14 00:29	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/16/14 00:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/16/14 00:29	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/16/14 00:29	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/16/14 00:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/16/14 00:29	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/16/14 00:29	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/16/14 00:29	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/16/14 00:29	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		02/16/14 00:29	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		02/16/14 00:29	17060-07-0	
Toluene-d8 (S)	96	%	70-130		1		02/16/14 00:29	2037-26-5	

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ANALYTICAL RESULTS

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

Sample: MW-3 **Lab ID: 92189694003** Collected: 02/11/14 15:00 Received: 02/14/14 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	02/15/14 10:10	02/18/14 02:39	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/18/14 02:39	7440-38-2	
Barium	**24.3J**	ug/L	100	5.0	1	02/15/14 10:10	02/18/14 02:39	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	02/15/14 10:10	02/18/14 02:39	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	02/15/14 10:10	02/18/14 02:39	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/18/14 02:39	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/18/14 02:39	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/18/14 02:39	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/18/14 02:39	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	02/15/14 10:10	02/18/14 02:39	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/15/14 10:10	02/18/14 02:39	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/18/14 02:39	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	02/15/14 10:10	02/18/14 02:39	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	02/15/14 10:10	02/18/14 02:39	7440-62-2	
Zinc	**12.6**	ug/L	10.0	10.0	1	02/15/14 10:10	02/18/14 02:39	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/16/14 00:45	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/16/14 00:45	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/16/14 00:45	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/16/14 00:45	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/16/14 00:45	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/16/14 00:45	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/16/14 00:45	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/16/14 00:45	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/16/14 00:45	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/16/14 00:45	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/16/14 00:45	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/16/14 00:45	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/16/14 00:45	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/16/14 00:45	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/16/14 00:45	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/16/14 00:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/16/14 00:45	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/16/14 00:45	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/16/14 00:45	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/16/14 00:45	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/16/14 00:45	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/16/14 00:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/16/14 00:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/16/14 00:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/16/14 00:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/16/14 00:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/16/14 00:45	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/16/14 00:45	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/16/14 00:45	10061-01-5	

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ANALYTICAL RESULTS

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

Sample: MW-3 **Lab ID: 92189694003** Collected: 02/11/14 15:00 Received: 02/14/14 11:30 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		02/16/14 00:45	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/16/14 00:45	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/16/14 00:45	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/16/14 00:45	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/16/14 00:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/16/14 00:45	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/16/14 00:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/16/14 00:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/16/14 00:45	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/16/14 00:45	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/16/14 00:45	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/16/14 00:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/16/14 00:45	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/16/14 00:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/16/14 00:45	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/16/14 00:45	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/16/14 00:45	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/16/14 00:45	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/16/14 00:45	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		02/16/14 00:45	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		02/16/14 00:45	17060-07-0	
Toluene-d8 (S)	96	%	70-130		1		02/16/14 00:45	2037-26-5	

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ANALYTICAL RESULTS

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

Sample: MW-4 **Lab ID: 92189694004** Collected: 02/11/14 13:00 Received: 02/14/14 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	02/15/14 10:10	02/18/14 02:43	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/18/14 02:43	7440-38-2	
Barium	**32.0J**	ug/L	100	5.0	1	02/15/14 10:10	02/18/14 02:43	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	02/15/14 10:10	02/18/14 02:43	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	02/15/14 10:10	02/18/14 02:43	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/18/14 02:43	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/18/14 02:43	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/18/14 02:43	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/18/14 02:43	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	02/15/14 10:10	02/18/14 02:43	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/15/14 10:10	02/18/14 02:43	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/18/14 02:43	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	02/15/14 10:10	02/18/14 02:43	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	02/15/14 10:10	02/18/14 02:43	7440-62-2	
Zinc	**13.1**	ug/L	10.0	10.0	1	02/15/14 10:10	02/18/14 02:43	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/16/14 01:01	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/16/14 01:01	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/16/14 01:01	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/16/14 01:01	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/16/14 01:01	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/16/14 01:01	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/16/14 01:01	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/16/14 01:01	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/16/14 01:01	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/16/14 01:01	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/16/14 01:01	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/16/14 01:01	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/16/14 01:01	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/16/14 01:01	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/16/14 01:01	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/16/14 01:01	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/16/14 01:01	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/16/14 01:01	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/16/14 01:01	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/16/14 01:01	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/16/14 01:01	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/16/14 01:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/16/14 01:01	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/16/14 01:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/16/14 01:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/16/14 01:01	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/16/14 01:01	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/16/14 01:01	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/16/14 01:01	10061-01-5	

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ANALYTICAL RESULTS

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

Sample: MW-4 **Lab ID: 92189694004** Collected: 02/11/14 13:00 Received: 02/14/14 11:30 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		02/16/14 01:01	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/16/14 01:01	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/16/14 01:01	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/16/14 01:01	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/16/14 01:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/16/14 01:01	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/16/14 01:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/16/14 01:01	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/16/14 01:01	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/16/14 01:01	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/16/14 01:01	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/16/14 01:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/16/14 01:01	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/16/14 01:01	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/16/14 01:01	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/16/14 01:01	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/16/14 01:01	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/16/14 01:01	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/16/14 01:01	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		02/16/14 01:01	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		02/16/14 01:01	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		02/16/14 01:01	2037-26-5	

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ANALYTICAL RESULTS

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

Sample: MW-5 **Lab ID: 92189694005** Collected: 02/11/14 13:35 Received: 02/14/14 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	02/15/14 10:10	02/18/14 02:46	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/18/14 02:46	7440-38-2	
Barium	**46.9J**	ug/L	100	5.0	1	02/15/14 10:10	02/18/14 02:46	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	02/15/14 10:10	02/18/14 02:46	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	02/15/14 10:10	02/18/14 02:46	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/18/14 02:46	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/18/14 02:46	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/18/14 02:46	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/18/14 02:46	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	02/15/14 10:10	02/18/14 02:46	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/15/14 10:10	02/18/14 02:46	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/18/14 02:46	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	02/15/14 10:10	02/18/14 02:46	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	02/15/14 10:10	02/18/14 02:46	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	02/15/14 10:10	02/18/14 02:46	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/16/14 01:17	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/16/14 01:17	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/16/14 01:17	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/16/14 01:17	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/16/14 01:17	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/16/14 01:17	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/16/14 01:17	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/16/14 01:17	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/16/14 01:17	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/16/14 01:17	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/16/14 01:17	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/16/14 01:17	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/16/14 01:17	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/16/14 01:17	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/16/14 01:17	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/16/14 01:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/16/14 01:17	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/16/14 01:17	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/16/14 01:17	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/16/14 01:17	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/16/14 01:17	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/16/14 01:17	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/16/14 01:17	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/16/14 01:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/16/14 01:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/16/14 01:17	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/16/14 01:17	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/16/14 01:17	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/16/14 01:17	10061-01-5	

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ANALYTICAL RESULTS

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

Sample: MW-5 **Lab ID: 92189694005** Collected: 02/11/14 13:35 Received: 02/14/14 11:30 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		02/16/14 01:17	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/16/14 01:17	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/16/14 01:17	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/16/14 01:17	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/16/14 01:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/16/14 01:17	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/16/14 01:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/16/14 01:17	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/16/14 01:17	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/16/14 01:17	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/16/14 01:17	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/16/14 01:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/16/14 01:17	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/16/14 01:17	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/16/14 01:17	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/16/14 01:17	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/16/14 01:17	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/16/14 01:17	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/16/14 01:17	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		02/16/14 01:17	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		02/16/14 01:17	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		02/16/14 01:17	2037-26-5	

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ANALYTICAL RESULTS

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

Sample: MW-6 **Lab ID: 92189694006** Collected: 02/11/14 14:00 Received: 02/14/14 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	02/15/14 10:10	02/18/14 02:49	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/18/14 02:49	7440-38-2	
Barium	**43.3J**	ug/L	100	5.0	1	02/15/14 10:10	02/18/14 02:49	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	02/15/14 10:10	02/18/14 02:49	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	02/15/14 10:10	02/18/14 02:49	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/18/14 02:49	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/18/14 02:49	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/18/14 02:49	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/18/14 02:49	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	02/15/14 10:10	02/18/14 02:49	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/15/14 10:10	02/18/14 02:49	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/18/14 02:49	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	02/15/14 10:10	02/18/14 02:49	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	02/15/14 10:10	02/18/14 02:49	7440-62-2	
Zinc	**20.1**	ug/L	10.0	10.0	1	02/15/14 10:10	02/18/14 02:49	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/16/14 01:32	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/16/14 01:32	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/16/14 01:32	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/16/14 01:32	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/16/14 01:32	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/16/14 01:32	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/16/14 01:32	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/16/14 01:32	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/16/14 01:32	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/16/14 01:32	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/16/14 01:32	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/16/14 01:32	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/16/14 01:32	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/16/14 01:32	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/16/14 01:32	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/16/14 01:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/16/14 01:32	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/16/14 01:32	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/16/14 01:32	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/16/14 01:32	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/16/14 01:32	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/16/14 01:32	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/16/14 01:32	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/16/14 01:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/16/14 01:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/16/14 01:32	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/16/14 01:32	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/16/14 01:32	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/16/14 01:32	10061-01-5	

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ANALYTICAL RESULTS

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

Sample: MW-6 **Lab ID: 92189694006** Collected: 02/11/14 14:00 Received: 02/14/14 11:30 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		02/16/14 01:32	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/16/14 01:32	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/16/14 01:32	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/16/14 01:32	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/16/14 01:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/16/14 01:32	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/16/14 01:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/16/14 01:32	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/16/14 01:32	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/16/14 01:32	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/16/14 01:32	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/16/14 01:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/16/14 01:32	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/16/14 01:32	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/16/14 01:32	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/16/14 01:32	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/16/14 01:32	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/16/14 01:32	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/16/14 01:32	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		02/16/14 01:32	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		02/16/14 01:32	17060-07-0	
Toluene-d8 (S)	96	%	70-130		1		02/16/14 01:32	2037-26-5	

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ANALYTICAL RESULTS

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

Sample: MW-7 **Lab ID: 92189694007** Collected: 02/11/14 14:35 Received: 02/14/14 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	02/15/14 10:10	02/21/14 00:08	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/21/14 00:08	7440-38-2	
Barium	**47.4J**	ug/L	100	5.0	1	02/15/14 10:10	02/21/14 00:08	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	02/15/14 10:10	02/21/14 00:08	7440-41-7	
Cadmium	**1.5**	ug/L	1.0	1.0	1	02/15/14 10:10	02/21/14 00:08	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/21/14 00:08	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/21/14 00:08	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/21/14 00:08	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/21/14 00:08	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	02/15/14 10:10	02/21/14 00:08	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/15/14 10:10	02/21/14 00:08	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/21/14 00:08	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	02/15/14 10:10	02/21/14 00:08	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	02/15/14 10:10	02/21/14 00:08	7440-62-2	
Zinc	**12.8**	ug/L	10.0	10.0	1	02/15/14 10:10	02/21/14 00:08	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/16/14 01:48	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/16/14 01:48	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/16/14 01:48	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/16/14 01:48	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/16/14 01:48	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/16/14 01:48	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/16/14 01:48	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/16/14 01:48	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/16/14 01:48	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/16/14 01:48	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/16/14 01:48	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/16/14 01:48	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/16/14 01:48	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/16/14 01:48	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/16/14 01:48	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/16/14 01:48	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/16/14 01:48	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/16/14 01:48	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/16/14 01:48	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/16/14 01:48	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/16/14 01:48	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/16/14 01:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/16/14 01:48	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/16/14 01:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/16/14 01:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/16/14 01:48	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/16/14 01:48	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/16/14 01:48	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/16/14 01:48	10061-01-5	

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ANALYTICAL RESULTS

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

Sample: MW-7 **Lab ID: 92189694007** Collected: 02/11/14 14:35 Received: 02/14/14 11:30 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		02/16/14 01:48	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/16/14 01:48	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/16/14 01:48	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/16/14 01:48	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/16/14 01:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/16/14 01:48	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/16/14 01:48	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/16/14 01:48	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/16/14 01:48	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/16/14 01:48	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/16/14 01:48	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/16/14 01:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/16/14 01:48	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/16/14 01:48	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/16/14 01:48	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/16/14 01:48	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/16/14 01:48	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/16/14 01:48	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/16/14 01:48	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		02/16/14 01:48	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		02/16/14 01:48	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		02/16/14 01:48	2037-26-5	

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ANALYTICAL RESULTS

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

Sample: MW-9 **Lab ID: 92189694008** Collected: 02/11/14 11:40 Received: 02/14/14 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	02/15/14 10:10	02/21/14 00:26	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/21/14 00:26	7440-38-2	
Barium	**35.6J**	ug/L	100	5.0	1	02/15/14 10:10	02/21/14 00:26	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	02/15/14 10:10	02/21/14 00:26	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	02/15/14 10:10	02/21/14 00:26	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/21/14 00:26	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/21/14 00:26	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/21/14 00:26	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/21/14 00:26	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	02/15/14 10:10	02/21/14 00:26	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/15/14 10:10	02/21/14 00:26	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/21/14 00:26	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	02/15/14 10:10	02/21/14 00:26	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	02/15/14 10:10	02/21/14 00:26	7440-62-2	
Zinc	**16.8**	ug/L	10.0	10.0	1	02/15/14 10:10	02/21/14 00:26	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/16/14 02:04	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/16/14 02:04	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/16/14 02:04	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/16/14 02:04	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/16/14 02:04	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/16/14 02:04	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/16/14 02:04	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/16/14 02:04	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/16/14 02:04	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/16/14 02:04	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/16/14 02:04	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/16/14 02:04	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/16/14 02:04	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/16/14 02:04	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/16/14 02:04	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/16/14 02:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/16/14 02:04	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/16/14 02:04	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/16/14 02:04	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/16/14 02:04	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/16/14 02:04	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/16/14 02:04	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/16/14 02:04	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/16/14 02:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/16/14 02:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/16/14 02:04	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/16/14 02:04	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/16/14 02:04	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/16/14 02:04	10061-01-5	

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ANALYTICAL RESULTS

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

Sample: MW-9 **Lab ID: 92189694008** Collected: 02/11/14 11:40 Received: 02/14/14 11:30 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		02/16/14 02:04	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/16/14 02:04	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/16/14 02:04	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/16/14 02:04	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/16/14 02:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/16/14 02:04	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/16/14 02:04	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/16/14 02:04	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/16/14 02:04	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/16/14 02:04	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/16/14 02:04	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/16/14 02:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/16/14 02:04	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/16/14 02:04	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/16/14 02:04	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/16/14 02:04	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/16/14 02:04	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/16/14 02:04	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/16/14 02:04	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		02/16/14 02:04	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		02/16/14 02:04	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		02/16/14 02:04	2037-26-5	

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ANALYTICAL RESULTS

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

Sample: MW-10 **Lab ID: 92189694009** Collected: 02/11/14 11:00 Received: 02/14/14 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	02/15/14 10:10	02/21/14 00:29	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/21/14 00:29	7440-38-2	
Barium	**44.2J**	ug/L	100	5.0	1	02/15/14 10:10	02/21/14 00:29	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	02/15/14 10:10	02/21/14 00:29	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	02/15/14 10:10	02/21/14 00:29	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/21/14 00:29	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/21/14 00:29	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/21/14 00:29	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/21/14 00:29	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	02/15/14 10:10	02/21/14 00:29	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/15/14 10:10	02/21/14 00:29	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/21/14 00:29	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	02/15/14 10:10	02/21/14 00:29	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	02/15/14 10:10	02/21/14 00:29	7440-62-2	
Zinc	**17.8**	ug/L	10.0	10.0	1	02/15/14 10:10	02/21/14 00:29	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/16/14 02:20	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/16/14 02:20	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/16/14 02:20	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/16/14 02:20	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/16/14 02:20	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/16/14 02:20	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/16/14 02:20	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/16/14 02:20	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/16/14 02:20	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/16/14 02:20	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/16/14 02:20	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/16/14 02:20	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/16/14 02:20	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/16/14 02:20	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/16/14 02:20	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/16/14 02:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/16/14 02:20	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/16/14 02:20	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/16/14 02:20	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/16/14 02:20	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/16/14 02:20	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/16/14 02:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/16/14 02:20	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/16/14 02:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/16/14 02:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/16/14 02:20	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/16/14 02:20	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/16/14 02:20	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/16/14 02:20	10061-01-5	

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ANALYTICAL RESULTS

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

Sample: MW-10 **Lab ID: 92189694009** Collected: 02/11/14 11:00 Received: 02/14/14 11:30 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		02/16/14 02:20	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/16/14 02:20	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/16/14 02:20	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/16/14 02:20	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/16/14 02:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/16/14 02:20	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/16/14 02:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/16/14 02:20	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/16/14 02:20	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/16/14 02:20	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/16/14 02:20	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/16/14 02:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/16/14 02:20	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/16/14 02:20	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/16/14 02:20	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/16/14 02:20	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/16/14 02:20	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/16/14 02:20	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/16/14 02:20	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		02/16/14 02:20	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		02/16/14 02:20	17060-07-0	
Toluene-d8 (S)	95	%	70-130		1		02/16/14 02:20	2037-26-5	

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ANALYTICAL RESULTS

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

Sample: MW-15 **Lab ID: 92189694010** Collected: 02/11/14 10:05 Received: 02/14/14 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	02/15/14 10:10	02/21/14 00:32	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/21/14 00:32	7440-38-2	
Barium	ND	ug/L	100	5.0	1	02/15/14 10:10	02/21/14 00:32	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	02/15/14 10:10	02/21/14 00:32	7440-41-7	
Cadmium	**10.1**	ug/L	1.0	1.0	1	02/15/14 10:10	02/21/14 00:32	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/21/14 00:32	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/21/14 00:32	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/21/14 00:32	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/21/14 00:32	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	02/15/14 10:10	02/21/14 00:32	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/15/14 10:10	02/21/14 00:32	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/21/14 00:32	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	02/15/14 10:10	02/21/14 00:32	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	02/15/14 10:10	02/21/14 00:32	7440-62-2	
Zinc	**11.2**	ug/L	10.0	10.0	1	02/15/14 10:10	02/21/14 00:32	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/16/14 02:35	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/16/14 02:35	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/16/14 02:35	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/16/14 02:35	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/16/14 02:35	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/16/14 02:35	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/16/14 02:35	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/16/14 02:35	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/16/14 02:35	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/16/14 02:35	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/16/14 02:35	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/16/14 02:35	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/16/14 02:35	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/16/14 02:35	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/16/14 02:35	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/16/14 02:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/16/14 02:35	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/16/14 02:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/16/14 02:35	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/16/14 02:35	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/16/14 02:35	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/16/14 02:35	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/16/14 02:35	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/16/14 02:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/16/14 02:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/16/14 02:35	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/16/14 02:35	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/16/14 02:35	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/16/14 02:35	10061-01-5	

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ANALYTICAL RESULTS

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

Sample: MW-15 **Lab ID: 92189694010** Collected: 02/11/14 10:05 Received: 02/14/14 11:30 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		02/16/14 02:35	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/16/14 02:35	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/16/14 02:35	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/16/14 02:35	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/16/14 02:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/16/14 02:35	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/16/14 02:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/16/14 02:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/16/14 02:35	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/16/14 02:35	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/16/14 02:35	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/16/14 02:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/16/14 02:35	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/16/14 02:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/16/14 02:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/16/14 02:35	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/16/14 02:35	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/16/14 02:35	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/16/14 02:35	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		02/16/14 02:35	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		02/16/14 02:35	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		02/16/14 02:35	2037-26-5	

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ANALYTICAL RESULTS

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

Sample: SW-4 **Lab ID: 92189694011** Collected: 02/10/14 17:30 Received: 02/14/14 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	02/15/14 10:10	02/21/14 00:35	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/21/14 00:35	7440-38-2	
Barium	**92.6J**	ug/L	100	5.0	1	02/15/14 10:10	02/21/14 00:35	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	02/15/14 10:10	02/21/14 00:35	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	02/15/14 10:10	02/21/14 00:35	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/21/14 00:35	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/21/14 00:35	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/21/14 00:35	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/21/14 00:35	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	02/15/14 10:10	02/21/14 00:35	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/15/14 10:10	02/21/14 00:35	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/21/14 00:35	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	02/15/14 10:10	02/21/14 00:35	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	02/15/14 10:10	02/21/14 00:35	7440-62-2	
Zinc	**20.4**	ug/L	10.0	10.0	1	02/15/14 10:10	02/21/14 00:35	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/16/14 02:51	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/16/14 02:51	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/16/14 02:51	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/16/14 02:51	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/16/14 02:51	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/16/14 02:51	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/16/14 02:51	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/16/14 02:51	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/16/14 02:51	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/16/14 02:51	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/16/14 02:51	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/16/14 02:51	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/16/14 02:51	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/16/14 02:51	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/16/14 02:51	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/16/14 02:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/16/14 02:51	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/16/14 02:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/16/14 02:51	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/16/14 02:51	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/16/14 02:51	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/16/14 02:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/16/14 02:51	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/16/14 02:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/16/14 02:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/16/14 02:51	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/16/14 02:51	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/16/14 02:51	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/16/14 02:51	10061-01-5	

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ANALYTICAL RESULTS

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

Sample: SW-4 **Lab ID: 92189694011** Collected: 02/10/14 17:30 Received: 02/14/14 11:30 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		02/16/14 02:51	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/16/14 02:51	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/16/14 02:51	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/16/14 02:51	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/16/14 02:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/16/14 02:51	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/16/14 02:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/16/14 02:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/16/14 02:51	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/16/14 02:51	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/16/14 02:51	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/16/14 02:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/16/14 02:51	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/16/14 02:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/16/14 02:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/16/14 02:51	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/16/14 02:51	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/16/14 02:51	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/16/14 02:51	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		02/16/14 02:51	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		02/16/14 02:51	17060-07-0	
Toluene-d8 (S)	96	%	70-130		1		02/16/14 02:51	2037-26-5	

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ANALYTICAL RESULTS

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

Sample: SW-5 **Lab ID: 92189694012** Collected: 02/10/14 17:05 Received: 02/14/14 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	02/15/14 10:10	02/21/14 00:38	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/21/14 00:38	7440-38-2	
Barium	**124**	ug/L	100	5.0	1	02/15/14 10:10	02/21/14 00:38	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	02/15/14 10:10	02/21/14 00:38	7440-41-7	
Cadmium	**62.7**	ug/L	1.0	1.0	1	02/15/14 10:10	02/21/14 00:38	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/21/14 00:38	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/21/14 00:38	7440-48-4	
Copper	**5.9J**	ug/L	10.0	5.0	1	02/15/14 10:10	02/21/14 00:38	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/21/14 00:38	7439-92-1	
Nickel	**7.7J**	ug/L	50.0	5.0	1	02/15/14 10:10	02/21/14 00:38	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/15/14 10:10	02/21/14 00:38	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/21/14 00:38	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	02/15/14 10:10	02/21/14 00:38	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	02/15/14 10:10	02/21/14 00:38	7440-62-2	
Zinc	**25.4**	ug/L	10.0	10.0	1	02/15/14 10:10	02/21/14 00:38	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/16/14 03:07	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/16/14 03:07	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/16/14 03:07	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/16/14 03:07	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/16/14 03:07	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/16/14 03:07	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/16/14 03:07	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/16/14 03:07	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/16/14 03:07	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/16/14 03:07	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/16/14 03:07	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/16/14 03:07	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/16/14 03:07	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/16/14 03:07	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/16/14 03:07	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/16/14 03:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/16/14 03:07	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/16/14 03:07	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/16/14 03:07	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/16/14 03:07	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/16/14 03:07	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/16/14 03:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/16/14 03:07	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/16/14 03:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/16/14 03:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/16/14 03:07	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/16/14 03:07	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/16/14 03:07	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/16/14 03:07	10061-01-5	

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ANALYTICAL RESULTS

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

Sample: SW-5 **Lab ID: 92189694012** Collected: 02/10/14 17:05 Received: 02/14/14 11:30 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		02/16/14 03:07	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/16/14 03:07	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/16/14 03:07	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/16/14 03:07	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/16/14 03:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/16/14 03:07	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/16/14 03:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/16/14 03:07	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/16/14 03:07	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/16/14 03:07	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/16/14 03:07	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/16/14 03:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/16/14 03:07	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/16/14 03:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/16/14 03:07	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/16/14 03:07	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/16/14 03:07	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/16/14 03:07	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/16/14 03:07	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		02/16/14 03:07	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		02/16/14 03:07	17060-07-0	
Toluene-d8 (S)	96	%	70-130		1		02/16/14 03:07	2037-26-5	

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ANALYTICAL RESULTS

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

Sample: LE-1 **Lab ID: 92189694013** Collected: 02/11/14 16:05 Received: 02/14/14 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	**25.7**	ug/L	6.0	5.0	1	02/15/14 10:10	02/21/14 00:41	7440-36-0	
Arsenic	**18.9**	ug/L	10.0	5.0	1	02/15/14 10:10	02/21/14 00:41	7440-38-2	
Barium	**124**	ug/L	100	5.0	1	02/15/14 10:10	02/21/14 00:41	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	02/15/14 10:10	02/21/14 00:41	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	02/15/14 10:10	02/21/14 00:41	7440-43-9	
Chromium	**17.1**	ug/L	10.0	5.0	1	02/15/14 10:10	02/21/14 00:41	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/21/14 00:41	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/21/14 00:41	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/21/14 00:41	7439-92-1	
Nickel	**24.2J**	ug/L	50.0	5.0	1	02/15/14 10:10	02/21/14 00:41	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/15/14 10:10	02/21/14 00:41	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/15/14 10:10	02/21/14 00:41	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	02/15/14 10:10	02/21/14 00:41	7440-28-0	
Vanadium	**6.5J**	ug/L	25.0	5.0	1	02/15/14 10:10	02/21/14 00:41	7440-62-2	
Zinc	**18.9**	ug/L	10.0	10.0	1	02/15/14 10:10	02/21/14 00:41	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	**116**	ug/L	100	10.0	1		02/16/14 03:23	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/16/14 03:23	107-13-1	
Benzene	**7.0**	ug/L	1.0	0.25	1		02/16/14 03:23	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/16/14 03:23	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/16/14 03:23	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/16/14 03:23	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/16/14 03:23	74-83-9	
2-Butanone (MEK)	**116**	ug/L	100	0.96	1		02/16/14 03:23	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/16/14 03:23	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/16/14 03:23	56-23-5	
Chlorobenzene	**1.1J**	ug/L	3.0	0.23	1		02/16/14 03:23	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/16/14 03:23	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/16/14 03:23	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/16/14 03:23	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/16/14 03:23	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/16/14 03:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/16/14 03:23	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/16/14 03:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/16/14 03:23	95-50-1	
1,4-Dichlorobenzene	**2.4**	ug/L	1.0	0.33	1		02/16/14 03:23	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/16/14 03:23	110-57-6	
1,1-Dichloroethane	**0.52J**	ug/L	5.0	0.32	1		02/16/14 03:23	75-34-3	
1,2-Dichloroethane	**0.75J**	ug/L	1.0	0.12	1		02/16/14 03:23	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/16/14 03:23	75-35-4	
cis-1,2-Dichloroethene	**0.43J**	ug/L	5.0	0.19	1		02/16/14 03:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/16/14 03:23	156-60-5	
1,2-Dichloropropane	**0.53J**	ug/L	1.0	0.27	1		02/16/14 03:23	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/16/14 03:23	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/16/14 03:23	10061-01-5	

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ANALYTICAL RESULTS

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

Sample: LE-1 **Lab ID: 92189694013** Collected: 02/11/14 16:05 Received: 02/14/14 11:30 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		02/16/14 03:23	10061-02-6	
Ethylbenzene	**8.8**	ug/L	1.0	0.30	1		02/16/14 03:23	100-41-4	
2-Hexanone	**4.2J**	ug/L	50.0	0.46	1		02/16/14 03:23	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/16/14 03:23	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/16/14 03:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.7J**	ug/L	100	0.33	1		02/16/14 03:23	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/16/14 03:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/16/14 03:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/16/14 03:23	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/16/14 03:23	127-18-4	
Toluene	**6.5**	ug/L	1.0	0.26	1		02/16/14 03:23	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/16/14 03:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/16/14 03:23	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/16/14 03:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/16/14 03:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/16/14 03:23	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/16/14 03:23	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/16/14 03:23	75-01-4	
Xylene (Total)	**23.7**	ug/L	5.0	0.66	1		02/16/14 03:23	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		02/16/14 03:23	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		02/16/14 03:23	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		02/16/14 03:23	2037-26-5	
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	**34600**	ug/L	2000	2000	1	02/15/14 03:41	02/20/14 09:16		H3
9040 pH	Analytical Method: EPA 9040								
pH	**7.0**	Std. Units	0.10	0.10	1		02/15/14 12:30		H3,H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	ND	ug/L	250000	2000	1		02/20/14 09:42	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	ug/L	10000	20.0	1		02/15/14 03:45		H3
365.1 Phosphorus, Total	Analytical Method: EPA 365.1								
Phosphorus	**790**	ug/L	50.0	50.0	1		02/25/14 10:27	7723-14-0	
5220D COD	Analytical Method: SM 5220D								
Chemical Oxygen Demand	**470000**	ug/L	25000	25000	1		02/21/14 11:10		

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ANALYTICAL RESULTS

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

Sample: MW-8 **Lab ID: 92189694014** Collected: 02/14/14 10:35 Received: 02/18/14 13:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	02/20/14 10:40	02/26/14 21:15	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	02/20/14 10:40	02/26/14 21:15	7440-38-2	
Barium	**13.2J**	ug/L	100	5.0	1	02/20/14 10:40	02/26/14 21:15	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	02/20/14 10:40	02/26/14 21:15	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	02/20/14 10:40	02/26/14 21:15	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	02/20/14 10:40	02/26/14 21:15	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	02/20/14 10:40	02/26/14 21:15	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	02/20/14 10:40	02/26/14 21:15	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/20/14 10:40	02/26/14 21:15	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	02/20/14 10:40	02/26/14 21:15	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/20/14 10:40	02/26/14 21:15	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/20/14 10:40	02/26/14 21:15	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	02/20/14 10:40	02/26/14 21:15	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	02/20/14 10:40	02/26/14 21:15	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	02/20/14 10:40	02/26/14 21:15	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/19/14 15:03	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/19/14 15:03	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/19/14 15:03	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/19/14 15:03	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/19/14 15:03	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/19/14 15:03	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/19/14 15:03	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/19/14 15:03	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/19/14 15:03	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/19/14 15:03	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/19/14 15:03	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/19/14 15:03	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/19/14 15:03	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/19/14 15:03	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/19/14 15:03	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/19/14 15:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/19/14 15:03	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/19/14 15:03	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/19/14 15:03	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/19/14 15:03	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/19/14 15:03	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/19/14 15:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/19/14 15:03	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/19/14 15:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/19/14 15:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/19/14 15:03	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/19/14 15:03	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/19/14 15:03	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/19/14 15:03	10061-01-5	

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ANALYTICAL RESULTS

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

Sample: MW-8 **Lab ID: 92189694014** Collected: 02/14/14 10:35 Received: 02/18/14 13:00 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		02/19/14 15:03	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/19/14 15:03	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/19/14 15:03	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/19/14 15:03	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/19/14 15:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/19/14 15:03	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/19/14 15:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/19/14 15:03	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/19/14 15:03	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/19/14 15:03	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/19/14 15:03	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/19/14 15:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/19/14 15:03	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/19/14 15:03	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/19/14 15:03	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/19/14 15:03	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/19/14 15:03	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/19/14 15:03	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/19/14 15:03	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		02/19/14 15:03	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130		1		02/19/14 15:03	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		02/19/14 15:03	2037-26-5	

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ANALYTICAL RESULTS

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

Sample: MW-11 **Lab ID: 92189694015** Collected: 02/14/14 11:05 Received: 02/18/14 13:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	02/20/14 10:40	02/26/14 21:18	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	02/20/14 10:40	02/26/14 21:18	7440-38-2	
Barium	**27.1J**	ug/L	100	5.0	1	02/20/14 10:40	02/26/14 21:18	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	02/20/14 10:40	02/26/14 21:18	7440-41-7	
Cadmium	**2.8**	ug/L	1.0	1.0	1	02/20/14 10:40	02/26/14 21:18	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	02/20/14 10:40	02/26/14 21:18	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	02/20/14 10:40	02/26/14 21:18	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	02/20/14 10:40	02/26/14 21:18	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/20/14 10:40	02/26/14 21:18	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	02/20/14 10:40	02/26/14 21:18	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/20/14 10:40	02/26/14 21:18	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/20/14 10:40	02/26/14 21:18	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	02/20/14 10:40	02/26/14 21:18	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	02/20/14 10:40	02/26/14 21:18	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	02/20/14 10:40	02/26/14 21:18	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/19/14 15:19	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/19/14 15:19	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/19/14 15:19	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/19/14 15:19	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/19/14 15:19	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/19/14 15:19	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/19/14 15:19	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/19/14 15:19	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/19/14 15:19	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/19/14 15:19	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/19/14 15:19	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/19/14 15:19	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/19/14 15:19	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/19/14 15:19	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/19/14 15:19	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/19/14 15:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/19/14 15:19	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/19/14 15:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/19/14 15:19	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/19/14 15:19	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/19/14 15:19	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/19/14 15:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/19/14 15:19	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/19/14 15:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/19/14 15:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/19/14 15:19	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/19/14 15:19	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/19/14 15:19	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/19/14 15:19	10061-01-5	

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ANALYTICAL RESULTS

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

Sample: MW-11 **Lab ID: 92189694015** Collected: 02/14/14 11:05 Received: 02/18/14 13:00 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		02/19/14 15:19	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/19/14 15:19	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/19/14 15:19	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/19/14 15:19	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/19/14 15:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/19/14 15:19	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/19/14 15:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/19/14 15:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/19/14 15:19	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/19/14 15:19	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/19/14 15:19	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/19/14 15:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/19/14 15:19	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/19/14 15:19	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/19/14 15:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/19/14 15:19	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/19/14 15:19	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/19/14 15:19	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/19/14 15:19	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		02/19/14 15:19	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130		1		02/19/14 15:19	17060-07-0	
Toluene-d8 (S)	95	%	70-130		1		02/19/14 15:19	2037-26-5	

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ANALYTICAL RESULTS

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

Sample: MW-12 **Lab ID: 92189694016** Collected: 02/14/14 13:35 Received: 02/18/14 13:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	02/20/14 10:40	02/26/14 21:21	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	02/20/14 10:40	02/26/14 21:21	7440-38-2	
Barium	**115**	ug/L	100	5.0	1	02/20/14 10:40	02/26/14 21:21	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	02/20/14 10:40	02/26/14 21:21	7440-41-7	
Cadmium	**1.8**	ug/L	1.0	1.0	1	02/20/14 10:40	02/26/14 21:21	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	02/20/14 10:40	02/26/14 21:21	7440-47-3	
Cobalt	**51.8**	ug/L	10.0	5.0	1	02/20/14 10:40	02/26/14 21:21	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	02/20/14 10:40	02/26/14 21:21	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/20/14 10:40	02/26/14 21:21	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	02/20/14 10:40	02/26/14 21:21	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/20/14 10:40	02/26/14 21:21	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/20/14 10:40	02/26/14 21:21	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	02/20/14 10:40	02/26/14 21:21	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	02/20/14 10:40	02/26/14 21:21	7440-62-2	
Zinc	**11.2**	ug/L	10.0	10.0	1	02/20/14 10:40	02/26/14 21:21	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/19/14 15:35	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/19/14 15:35	107-13-1	
Benzene	**0.84J**	ug/L	1.0	0.25	1		02/19/14 15:35	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/19/14 15:35	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/19/14 15:35	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/19/14 15:35	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/19/14 15:35	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/19/14 15:35	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/19/14 15:35	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/19/14 15:35	56-23-5	
Chlorobenzene	**0.35J**	ug/L	3.0	0.23	1		02/19/14 15:35	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/19/14 15:35	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/19/14 15:35	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/19/14 15:35	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/19/14 15:35	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/19/14 15:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/19/14 15:35	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/19/14 15:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/19/14 15:35	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/19/14 15:35	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/19/14 15:35	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/19/14 15:35	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/19/14 15:35	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/19/14 15:35	75-35-4	
cis-1,2-Dichloroethene	**0.21J**	ug/L	5.0	0.19	1		02/19/14 15:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/19/14 15:35	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/19/14 15:35	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/19/14 15:35	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/19/14 15:35	10061-01-5	

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ANALYTICAL RESULTS

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

Sample: MW-12 **Lab ID: 92189694016** Collected: 02/14/14 13:35 Received: 02/18/14 13:00 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		02/19/14 15:35	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/19/14 15:35	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/19/14 15:35	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/19/14 15:35	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/19/14 15:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/19/14 15:35	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/19/14 15:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/19/14 15:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/19/14 15:35	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/19/14 15:35	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/19/14 15:35	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/19/14 15:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/19/14 15:35	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/19/14 15:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/19/14 15:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/19/14 15:35	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/19/14 15:35	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/19/14 15:35	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/19/14 15:35	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		02/19/14 15:35	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130		1		02/19/14 15:35	17060-07-0	
Toluene-d8 (S)	96	%	70-130		1		02/19/14 15:35	2037-26-5	

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ANALYTICAL RESULTS

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

Sample: MW-13 **Lab ID: 92189694017** Collected: 02/14/14 12:00 Received: 02/18/14 13:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	02/20/14 10:40	02/26/14 21:24	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	02/20/14 10:40	02/26/14 21:24	7440-38-2	
Barium	**43.0J**	ug/L	100	5.0	1	02/20/14 10:40	02/26/14 21:24	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	02/20/14 10:40	02/26/14 21:24	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	02/20/14 10:40	02/26/14 21:24	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	02/20/14 10:40	02/26/14 21:24	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	02/20/14 10:40	02/26/14 21:24	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	02/20/14 10:40	02/26/14 21:24	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/20/14 10:40	02/26/14 21:24	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	02/20/14 10:40	02/26/14 21:24	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/20/14 10:40	02/26/14 21:24	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/20/14 10:40	02/26/14 21:24	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	02/20/14 10:40	02/26/14 21:24	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	02/20/14 10:40	02/26/14 21:24	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	02/20/14 10:40	02/26/14 21:24	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/19/14 15:51	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/19/14 15:51	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/19/14 15:51	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/19/14 15:51	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/19/14 15:51	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/19/14 15:51	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/19/14 15:51	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/19/14 15:51	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/19/14 15:51	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/19/14 15:51	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/19/14 15:51	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/19/14 15:51	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/19/14 15:51	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/19/14 15:51	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/19/14 15:51	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/19/14 15:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/19/14 15:51	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/19/14 15:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/19/14 15:51	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/19/14 15:51	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/19/14 15:51	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/19/14 15:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/19/14 15:51	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/19/14 15:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/19/14 15:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/19/14 15:51	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/19/14 15:51	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/19/14 15:51	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/19/14 15:51	10061-01-5	

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ANALYTICAL RESULTS

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

Sample: MW-13 **Lab ID: 92189694017** Collected: 02/14/14 12:00 Received: 02/18/14 13:00 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		02/19/14 15:51	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/19/14 15:51	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/19/14 15:51	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/19/14 15:51	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/19/14 15:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/19/14 15:51	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/19/14 15:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/19/14 15:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/19/14 15:51	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/19/14 15:51	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/19/14 15:51	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/19/14 15:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/19/14 15:51	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/19/14 15:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/19/14 15:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/19/14 15:51	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/19/14 15:51	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/19/14 15:51	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/19/14 15:51	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		02/19/14 15:51	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		02/19/14 15:51	17060-07-0	
Toluene-d8 (S)	95	%	70-130		1		02/19/14 15:51	2037-26-5	

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ANALYTICAL RESULTS

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

Sample: MW-14 **Lab ID: 92189694018** Collected: 02/14/14 14:00 Received: 02/18/14 13:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	02/20/14 10:40	02/26/14 21:27	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	02/20/14 10:40	02/26/14 21:27	7440-38-2	
Barium	**34.3J**	ug/L	100	5.0	1	02/20/14 10:40	02/26/14 21:27	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	02/20/14 10:40	02/26/14 21:27	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	02/20/14 10:40	02/26/14 21:27	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	02/20/14 10:40	02/26/14 21:27	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	02/20/14 10:40	02/26/14 21:27	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	02/20/14 10:40	02/26/14 21:27	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/20/14 10:40	02/26/14 21:27	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	02/20/14 10:40	02/26/14 21:27	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/20/14 10:40	02/26/14 21:27	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/20/14 10:40	02/26/14 21:27	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	02/20/14 10:40	02/26/14 21:27	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	02/20/14 10:40	02/26/14 21:27	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	02/20/14 10:40	02/26/14 21:27	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/19/14 16:06	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/19/14 16:06	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/19/14 16:06	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/19/14 16:06	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/19/14 16:06	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/19/14 16:06	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/19/14 16:06	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/19/14 16:06	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/19/14 16:06	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/19/14 16:06	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/19/14 16:06	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/19/14 16:06	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/19/14 16:06	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/19/14 16:06	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/19/14 16:06	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/19/14 16:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/19/14 16:06	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/19/14 16:06	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/19/14 16:06	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/19/14 16:06	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/19/14 16:06	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/19/14 16:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/19/14 16:06	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/19/14 16:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/19/14 16:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/19/14 16:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/19/14 16:06	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/19/14 16:06	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/19/14 16:06	10061-01-5	

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ANALYTICAL RESULTS

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

Sample: MW-14 **Lab ID: 92189694018** Collected: 02/14/14 14:00 Received: 02/18/14 13:00 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		02/19/14 16:06	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/19/14 16:06	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/19/14 16:06	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/19/14 16:06	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/19/14 16:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/19/14 16:06	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/19/14 16:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/19/14 16:06	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/19/14 16:06	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/19/14 16:06	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/19/14 16:06	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/19/14 16:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/19/14 16:06	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/19/14 16:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/19/14 16:06	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/19/14 16:06	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/19/14 16:06	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/19/14 16:06	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/19/14 16:06	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		02/19/14 16:06	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130		1		02/19/14 16:06	17060-07-0	
Toluene-d8 (S)	96	%	70-130		1		02/19/14 16:06	2037-26-5	

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ANALYTICAL RESULTS

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

Sample: MW-16R **Lab ID: 92189694019** Collected: 02/14/14 15:10 Received: 02/18/14 13:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	02/20/14 10:40	02/26/14 21:30	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	02/20/14 10:40	02/26/14 21:30	7440-38-2	
Barium	**43.5J**	ug/L	100	5.0	1	02/20/14 10:40	02/26/14 21:30	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	02/20/14 10:40	02/26/14 21:30	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	02/20/14 10:40	02/26/14 21:30	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	02/20/14 10:40	02/26/14 21:30	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	02/20/14 10:40	02/26/14 21:30	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	02/20/14 10:40	02/26/14 21:30	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/20/14 10:40	02/26/14 21:30	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	02/20/14 10:40	02/26/14 21:30	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/20/14 10:40	02/26/14 21:30	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/20/14 10:40	02/26/14 21:30	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	02/20/14 10:40	02/26/14 21:30	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	02/20/14 10:40	02/26/14 21:30	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	02/20/14 10:40	02/26/14 21:30	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/19/14 16:22	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/19/14 16:22	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/19/14 16:22	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/19/14 16:22	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/19/14 16:22	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/19/14 16:22	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/19/14 16:22	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/19/14 16:22	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/19/14 16:22	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/19/14 16:22	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/19/14 16:22	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/19/14 16:22	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/19/14 16:22	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/19/14 16:22	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/19/14 16:22	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/19/14 16:22	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/19/14 16:22	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/19/14 16:22	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/19/14 16:22	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/19/14 16:22	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/19/14 16:22	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/19/14 16:22	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/19/14 16:22	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/19/14 16:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/19/14 16:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/19/14 16:22	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/19/14 16:22	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/19/14 16:22	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/19/14 16:22	10061-01-5	

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ANALYTICAL RESULTS

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

Sample: MW-16R **Lab ID: 92189694019** Collected: 02/14/14 15:10 Received: 02/18/14 13:00 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		02/19/14 16:22	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/19/14 16:22	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/19/14 16:22	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/19/14 16:22	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/19/14 16:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/19/14 16:22	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/19/14 16:22	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/19/14 16:22	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/19/14 16:22	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/19/14 16:22	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/19/14 16:22	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/19/14 16:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/19/14 16:22	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/19/14 16:22	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/19/14 16:22	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/19/14 16:22	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/19/14 16:22	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/19/14 16:22	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/19/14 16:22	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		02/19/14 16:22	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		02/19/14 16:22	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		02/19/14 16:22	2037-26-5	

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QUALITY CONTROL DATA

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

QC Batch: MPRP/15240 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 92189694001, 92189694002, 92189694003, 92189694004, 92189694005, 92189694006

METHOD BLANK: 1138223 Matrix: Water
Associated Lab Samples: 92189694001, 92189694002, 92189694003, 92189694004, 92189694005, 92189694006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	6.0	02/18/14 12:33	
Arsenic	ug/L	ND	10.0	02/18/14 12:33	
Barium	ug/L	ND	100	02/18/14 12:33	
Beryllium	ug/L	ND	1.0	02/18/14 12:33	
Cadmium	ug/L	ND	1.0	02/18/14 12:33	
Chromium	ug/L	ND	10.0	02/18/14 12:33	
Cobalt	ug/L	ND	10.0	02/18/14 12:33	
Copper	ug/L	ND	10.0	02/18/14 12:33	
Lead	ug/L	ND	10.0	02/18/14 12:33	
Nickel	ug/L	ND	50.0	02/18/14 12:33	
Selenium	ug/L	ND	10.0	02/18/14 12:33	
Silver	ug/L	ND	10.0	02/18/14 12:33	
Thallium	ug/L	ND	5.5	02/18/14 12:33	
Vanadium	ug/L	ND	25.0	02/18/14 12:33	
Zinc	ug/L	ND	10.0	02/18/14 12:33	

LABORATORY CONTROL SAMPLE: 1138224

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	484	97	80-120	
Arsenic	ug/L	500	463	93	80-120	
Barium	ug/L	500	476	95	80-120	
Beryllium	ug/L	500	487	97	80-120	
Cadmium	ug/L	500	481	96	80-120	
Chromium	ug/L	500	486	97	80-120	
Cobalt	ug/L	500	479	96	80-120	
Copper	ug/L	500	470	94	80-120	
Lead	ug/L	500	470	94	80-120	
Nickel	ug/L	500	478	96	80-120	
Selenium	ug/L	500	474	95	80-120	
Silver	ug/L	250	241	96	80-120	
Thallium	ug/L	500	463	93	80-120	
Vanadium	ug/L	500	478	96	80-120	
Zinc	ug/L	500	488	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1138225 1138226

Parameter	Units	92188591001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	ND	500	500	461	461	92	92	75-125	0	25	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1138225 1138226

Parameter	Units	92188591001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	ND	500	500	467	472	93	94	75-125	1	25	
Barium	ug/L	78.4	500	500	560	560	96	96	75-125	0	25	
Beryllium	ug/L	ND	500	500	489	487	98	97	75-125	0	25	
Cadmium	ug/L	ND	500	500	475	473	95	95	75-125	0	25	
Chromium	ug/L	ND	500	500	490	489	97	97	75-125	0	25	
Cobalt	ug/L	7.7	500	500	486	485	96	95	75-125	0	25	
Copper	ug/L	14.4	500	500	498	498	97	97	75-125	0	25	
Lead	ug/L	7.5	500	500	469	470	92	93	75-125	0	25	
Nickel	ug/L	ND	500	500	482	480	96	95	75-125	0	25	
Selenium	ug/L	ND	500	500	468	464	94	93	75-125	1	25	
Silver	ug/L	ND	250	250	242	240	97	96	75-125	1	25	
Thallium	ug/L	ND	500	500	454	456	90	91	75-125	0	25	
Vanadium	ug/L	23.4	500	500	506	506	97	97	75-125	0	25	
Zinc	ug/L	50.0	500	500	505	508	91	92	75-125	1	25	

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QUALITY CONTROL DATA

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

QC Batch: MPRP/15242 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 92189694007, 92189694008, 92189694009, 92189694010, 92189694011, 92189694012, 92189694013

METHOD BLANK: 1138231 Matrix: Water
Associated Lab Samples: 92189694007, 92189694008, 92189694009, 92189694010, 92189694011, 92189694012, 92189694013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	6.0	02/21/14 00:02	
Arsenic	ug/L	ND	10.0	02/21/14 00:02	
Barium	ug/L	ND	100	02/21/14 00:02	
Beryllium	ug/L	ND	1.0	02/21/14 00:02	
Cadmium	ug/L	ND	1.0	02/21/14 00:02	
Chromium	ug/L	ND	10.0	02/21/14 00:02	
Cobalt	ug/L	ND	10.0	02/21/14 00:02	
Copper	ug/L	ND	10.0	02/21/14 00:02	
Lead	ug/L	ND	10.0	02/21/14 00:02	
Nickel	ug/L	ND	50.0	02/21/14 00:02	
Selenium	ug/L	ND	10.0	02/21/14 00:02	
Silver	ug/L	ND	10.0	02/21/14 00:02	
Thallium	ug/L	ND	5.5	02/21/14 00:02	
Vanadium	ug/L	ND	25.0	02/21/14 00:02	
Zinc	ug/L	ND	10.0	02/21/14 00:02	

LABORATORY CONTROL SAMPLE: 1138232

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	482	96	80-120	
Arsenic	ug/L	500	451	90	80-120	
Barium	ug/L	500	458	92	80-120	
Beryllium	ug/L	500	444	89	80-120	
Cadmium	ug/L	500	450	90	80-120	
Chromium	ug/L	500	435	87	80-120	
Cobalt	ug/L	500	454	91	80-120	
Copper	ug/L	500	448	90	80-120	
Lead	ug/L	500	455	91	80-120	
Nickel	ug/L	500	446	89	80-120	
Selenium	ug/L	500	466	93	80-120	
Silver	ug/L	250	223	89	80-120	
Thallium	ug/L	500	433	87	80-120	
Vanadium	ug/L	500	435	87	80-120	
Zinc	ug/L	500	443	89	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1138233 1138234

Parameter	Units	92189694007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	ND	500	500	478	451	96	90	75-125	6	25	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1138233 1138234

Parameter	Units	92189694007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	ND	500	500	448	424	90	85	75-125	6	25	
Barium	ug/L	47.4J	500	500	498	471	90	85	75-125	6	25	
Beryllium	ug/L	ND	500	500	438	416	88	83	75-125	5	25	
Cadmium	ug/L	1.5	500	500	449	428	90	85	75-125	5	25	
Chromium	ug/L	ND	500	500	429	406	86	81	75-125	6	25	
Cobalt	ug/L	ND	500	500	449	424	90	85	75-125	6	25	
Copper	ug/L	ND	500	500	450	423	90	85	75-125	6	25	
Lead	ug/L	ND	500	500	452	430	90	86	75-125	5	25	
Nickel	ug/L	ND	500	500	441	417	88	83	75-125	6	25	
Selenium	ug/L	ND	500	500	454	438	91	88	75-125	4	25	
Silver	ug/L	ND	250	250	222	212	89	85	75-125	4	25	
Thallium	ug/L	ND	500	500	425	405	84	80	75-125	5	25	
Vanadium	ug/L	ND	500	500	433	408	86	81	75-125	6	25	
Zinc	ug/L	12.8	500	500	448	420	87	81	75-125	7	25	

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QUALITY CONTROL DATA

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

QC Batch: MPRP/15268 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 92189694014, 92189694015, 92189694016, 92189694017, 92189694018, 92189694019

METHOD BLANK: 1141158 Matrix: Water
Associated Lab Samples: 92189694014, 92189694015, 92189694016, 92189694017, 92189694018, 92189694019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	6.0	02/26/14 20:38	
Arsenic	ug/L	ND	10.0	02/26/14 20:38	
Barium	ug/L	ND	100	02/26/14 20:38	
Beryllium	ug/L	ND	1.0	02/26/14 20:38	
Cadmium	ug/L	ND	1.0	02/26/14 20:38	
Chromium	ug/L	ND	10.0	02/26/14 20:38	
Cobalt	ug/L	ND	10.0	02/26/14 20:38	
Copper	ug/L	ND	10.0	02/26/14 20:38	
Lead	ug/L	ND	10.0	02/26/14 20:38	
Nickel	ug/L	ND	50.0	02/26/14 20:38	
Selenium	ug/L	ND	10.0	02/26/14 20:38	
Silver	ug/L	ND	10.0	02/26/14 20:38	
Thallium	ug/L	ND	5.5	02/26/14 20:38	
Vanadium	ug/L	ND	25.0	02/26/14 20:38	
Zinc	ug/L	ND	10.0	02/26/14 20:38	

LABORATORY CONTROL SAMPLE: 1141159

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	478	96	80-120	
Arsenic	ug/L	500	449	90	80-120	
Barium	ug/L	500	476	95	80-120	
Beryllium	ug/L	500	445	89	80-120	
Cadmium	ug/L	500	474	95	80-120	
Chromium	ug/L	500	447	89	80-120	
Cobalt	ug/L	500	457	91	80-120	
Copper	ug/L	500	451	90	80-120	
Lead	ug/L	500	460	92	80-120	
Nickel	ug/L	500	471	94	80-120	
Selenium	ug/L	500	461	92	80-120	
Silver	ug/L	250	228	91	80-120	
Thallium	ug/L	500	448	90	80-120	
Vanadium	ug/L	500	439	88	80-120	
Zinc	ug/L	500	444	89	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1141160 1141161

Parameter	Units	92189711003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	ND	500	500	462	488	91	97	75-125	5	25	

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QUALITY CONTROL DATA

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1141160 1141161

Parameter	Units	92189711003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	ND	500	500	441	461	88	92	75-125	4	25	
Barium	ug/L	59.4J	500	500	517	544	91	97	75-125	5	25	
Beryllium	ug/L	ND	500	500	436	459	87	92	75-125	5	25	
Cadmium	ug/L	ND	500	500	457	481	91	96	75-125	5	25	
Chromium	ug/L	ND	500	500	431	457	86	91	75-125	6	25	
Cobalt	ug/L	ND	500	500	435	458	87	92	75-125	5	25	
Copper	ug/L	ND	500	500	434	460	87	92	75-125	6	25	
Lead	ug/L	ND	500	500	432	454	86	91	75-125	5	25	
Nickel	ug/L	ND	500	500	447	471	89	94	75-125	5	25	
Selenium	ug/L	ND	500	500	447	468	89	94	75-125	5	25	
Silver	ug/L	ND	250	250	219	229	88	92	75-125	5	25	
Thallium	ug/L	ND	500	500	414	435	82	87	75-125	5	25	
Vanadium	ug/L	ND	500	500	432	457	86	91	75-125	6	25	
Zinc	ug/L	ND	500	500	433	456	86	90	75-125	5	25	

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QUALITY CONTROL DATA

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

QC Batch: MSV/25809 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 92189694001, 92189694002, 92189694003, 92189694004, 92189694005, 92189694006, 92189694007, 92189694008, 92189694009, 92189694010, 92189694011, 92189694012, 92189694013

METHOD BLANK: 1138381 Matrix: Water
Associated Lab Samples: 92189694001, 92189694002, 92189694003, 92189694004, 92189694005, 92189694006, 92189694007, 92189694008, 92189694009, 92189694010, 92189694011, 92189694012, 92189694013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	02/15/14 19:13	
1,1,1-Trichloroethane	ug/L	ND	1.0	02/15/14 19:13	
1,1,2,2-Tetrachloroethane	ug/L	ND	3.0	02/15/14 19:13	
1,1,2-Trichloroethane	ug/L	ND	1.0	02/15/14 19:13	
1,1-Dichloroethane	ug/L	ND	5.0	02/15/14 19:13	
1,1-Dichloroethene	ug/L	ND	5.0	02/15/14 19:13	
1,2,3-Trichloropropane	ug/L	ND	1.0	02/15/14 19:13	
1,2-Dibromo-3-chloropropane	ug/L	ND	13.0	02/15/14 19:13	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	02/15/14 19:13	
1,2-Dichlorobenzene	ug/L	ND	5.0	02/15/14 19:13	
1,2-Dichloroethane	ug/L	ND	1.0	02/15/14 19:13	
1,2-Dichloropropane	ug/L	ND	1.0	02/15/14 19:13	
1,3-Dichloropropane	ug/L	ND	1.0	02/15/14 19:13	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/15/14 19:13	
2-Butanone (MEK)	ug/L	ND	100	02/15/14 19:13	
2-Hexanone	ug/L	ND	50.0	02/15/14 19:13	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	02/15/14 19:13	
Acetone	ug/L	ND	100	02/15/14 19:13	
Acrylonitrile	ug/L	ND	200	02/15/14 19:13	
Benzene	ug/L	ND	1.0	02/15/14 19:13	
Bromochloromethane	ug/L	ND	3.0	02/15/14 19:13	
Bromodichloromethane	ug/L	ND	1.0	02/15/14 19:13	
Bromoform	ug/L	ND	3.0	02/15/14 19:13	
Bromomethane	ug/L	ND	10.0	02/15/14 19:13	
Carbon disulfide	ug/L	ND	100	02/15/14 19:13	
Carbon tetrachloride	ug/L	ND	1.0	02/15/14 19:13	
Chlorobenzene	ug/L	ND	3.0	02/15/14 19:13	
Chloroethane	ug/L	ND	10.0	02/15/14 19:13	
Chloroform	ug/L	ND	5.0	02/15/14 19:13	
Chloromethane	ug/L	ND	1.0	02/15/14 19:13	
cis-1,2-Dichloroethene	ug/L	ND	5.0	02/15/14 19:13	
cis-1,3-Dichloropropene	ug/L	ND	1.0	02/15/14 19:13	
Dibromochloromethane	ug/L	ND	3.0	02/15/14 19:13	
Dibromomethane	ug/L	ND	10.0	02/15/14 19:13	
Ethylbenzene	ug/L	ND	1.0	02/15/14 19:13	
Iodomethane	ug/L	ND	10.0	02/15/14 19:13	
Methylene Chloride	ug/L	ND	1.0	02/15/14 19:13	
Styrene	ug/L	ND	1.0	02/15/14 19:13	
Tetrachloroethene	ug/L	ND	1.0	02/15/14 19:13	
Toluene	ug/L	ND	1.0	02/15/14 19:13	
trans-1,2-Dichloroethene	ug/L	ND	5.0	02/15/14 19:13	

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QUALITY CONTROL DATA

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

METHOD BLANK: 1138381 Matrix: Water

Associated Lab Samples: 92189694001, 92189694002, 92189694003, 92189694004, 92189694005, 92189694006, 92189694007, 92189694008, 92189694009, 92189694010, 92189694011, 92189694012, 92189694013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,3-Dichloropropene	ug/L	ND	1.0	02/15/14 19:13	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	02/15/14 19:13	
Trichloroethene	ug/L	ND	1.0	02/15/14 19:13	
Trichlorofluoromethane	ug/L	ND	1.0	02/15/14 19:13	
Vinyl acetate	ug/L	ND	50.0	02/15/14 19:13	
Vinyl chloride	ug/L	ND	1.0	02/15/14 19:13	
Xylene (Total)	ug/L	ND	5.0	02/15/14 19:13	
1,2-Dichloroethane-d4 (S)	%	94	70-130	02/15/14 19:13	
4-Bromofluorobenzene (S)	%	97	70-130	02/15/14 19:13	
Toluene-d8 (S)	%	96	70-130	02/15/14 19:13	

LABORATORY CONTROL SAMPLE: 1138382

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.7	104	70-130	
1,1,1-Trichloroethane	ug/L	20	19.8	99	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	20.1	101	70-130	
1,1,2-Trichloroethane	ug/L	20	21.1	106	70-130	
1,1-Dichloroethane	ug/L	20	18.4	92	70-130	
1,1-Dichloroethene	ug/L	20	20.4	102	70-132	
1,2,3-Trichloropropane	ug/L	20	20.5	102	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	19.0	95	70-130	
1,2-Dibromoethane (EDB)	ug/L	20	21.2	106	70-130	
1,2-Dichlorobenzene	ug/L	20	19.8	99	70-130	
1,2-Dichloroethane	ug/L	20	19.8	99	70-130	
1,2-Dichloropropane	ug/L	20	20.9	104	70-130	
1,3-Dichloropropane	ug/L	20	21.1	106	70-130	
1,4-Dichlorobenzene	ug/L	20	19.6	98	70-130	
2-Butanone (MEK)	ug/L	40	48.4J	121	70-145	
2-Hexanone	ug/L	40	42.9J	107	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	40	41.4J	104	70-140	
Acetone	ug/L	40	39.1J	98	50-175	
Acrylonitrile	ug/L	100	94.6J	95	70-143	
Benzene	ug/L	20	21.2	106	70-130	
Bromochloromethane	ug/L	20	19.3	97	70-130	
Bromodichloromethane	ug/L	20	21.0	105	70-130	
Bromoform	ug/L	20	20.0	100	70-130	
Bromomethane	ug/L	20	20.1	100	54-130	
Carbon disulfide	ug/L	20	22.1J	111	70-131	
Carbon tetrachloride	ug/L	20	21.3	106	70-132	
Chlorobenzene	ug/L	20	20.6	103	70-130	
Chloroethane	ug/L	20	15.1	75	64-134	
Chloroform	ug/L	20	19.6	98	70-130	
Chloromethane	ug/L	20	18.5	92	64-130	

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QUALITY CONTROL DATA

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

LABORATORY CONTROL SAMPLE: 1138382

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	20	18.9	94	70-131	
cis-1,3-Dichloropropene	ug/L	20	20.6	103	70-130	
Dibromochloromethane	ug/L	20	20.9	104	70-130	
Dibromomethane	ug/L	20	21.4	107	70-131	
Ethylbenzene	ug/L	20	20.4	102	70-130	
Iodomethane	ug/L	40	32.9	82	49-180	
Methylene Chloride	ug/L	20	18.9	94	63-130	
Styrene	ug/L	20	20.9	105	70-130	
Tetrachloroethene	ug/L	20	20.7	104	70-130	
Toluene	ug/L	20	20.6	103	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.8	94	70-130	
trans-1,3-Dichloropropene	ug/L	20	21.1	106	70-132	
trans-1,4-Dichloro-2-butene	ug/L	20	21.1J	106	70-141	
Trichloroethene	ug/L	20	19.8	99	70-130	
Trichlorofluoromethane	ug/L	20	19.2	96	62-133	
Vinyl acetate	ug/L	40	40.8J	102	66-157	
Vinyl chloride	ug/L	20	18.8	94	69-130	
Xylene (Total)	ug/L	60	62.4	104	70-130	
1,2-Dichloroethane-d4 (S)	%			90	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1138383 1138384

Parameter	Units	92189711001 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	40.8	43.3	82	87	70-166	6	30	
Benzene	ug/L	ND	50	50	42.8	46.5	86	93	70-148	8	30	
Chlorobenzene	ug/L	ND	50	50	40.5	44.5	81	89	70-146	9	30	
Toluene	ug/L	ND	50	50	41.6	44.9	83	90	70-155	8	30	
Trichloroethene	ug/L	ND	50	50	44.5	48.2	89	96	69-151	8	30	
1,2-Dichloroethane-d4 (S)	%						104	104	70-130			
4-Bromofluorobenzene (S)	%						99	102	70-130			
Toluene-d8 (S)	%						100	101	70-130			

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QUALITY CONTROL DATA

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

QC Batch: MSV/25835 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 92189694014, 92189694015, 92189694016, 92189694017, 92189694018, 92189694019

METHOD BLANK: 1140079 Matrix: Water
Associated Lab Samples: 92189694014, 92189694015, 92189694016, 92189694017, 92189694018, 92189694019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	02/19/14 11:06	
1,1,1-Trichloroethane	ug/L	ND	1.0	02/19/14 11:06	
1,1,2,2-Tetrachloroethane	ug/L	ND	3.0	02/19/14 11:06	
1,1,2-Trichloroethane	ug/L	ND	1.0	02/19/14 11:06	
1,1-Dichloroethane	ug/L	ND	5.0	02/19/14 11:06	
1,1-Dichloroethene	ug/L	ND	5.0	02/19/14 11:06	
1,2,3-Trichloropropane	ug/L	ND	1.0	02/19/14 11:06	
1,2-Dibromo-3-chloropropane	ug/L	ND	13.0	02/19/14 11:06	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	02/19/14 11:06	
1,2-Dichlorobenzene	ug/L	ND	5.0	02/19/14 11:06	
1,2-Dichloroethane	ug/L	ND	1.0	02/19/14 11:06	
1,2-Dichloropropane	ug/L	ND	1.0	02/19/14 11:06	
1,3-Dichloropropane	ug/L	ND	1.0	02/19/14 11:06	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/19/14 11:06	
2-Butanone (MEK)	ug/L	ND	100	02/19/14 11:06	
2-Hexanone	ug/L	ND	50.0	02/19/14 11:06	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	02/19/14 11:06	
Acetone	ug/L	ND	100	02/19/14 11:06	
Acrylonitrile	ug/L	ND	200	02/19/14 11:06	
Benzene	ug/L	ND	1.0	02/19/14 11:06	
Bromochloromethane	ug/L	ND	3.0	02/19/14 11:06	
Bromodichloromethane	ug/L	ND	1.0	02/19/14 11:06	
Bromoform	ug/L	ND	3.0	02/19/14 11:06	
Bromomethane	ug/L	ND	10.0	02/19/14 11:06	
Carbon disulfide	ug/L	ND	100	02/19/14 11:06	
Carbon tetrachloride	ug/L	ND	1.0	02/19/14 11:06	
Chlorobenzene	ug/L	ND	3.0	02/19/14 11:06	
Chloroethane	ug/L	ND	10.0	02/19/14 11:06	
Chloroform	ug/L	ND	5.0	02/19/14 11:06	
Chloromethane	ug/L	ND	1.0	02/19/14 11:06	
cis-1,2-Dichloroethene	ug/L	ND	5.0	02/19/14 11:06	
cis-1,3-Dichloropropene	ug/L	ND	1.0	02/19/14 11:06	
Dibromochloromethane	ug/L	ND	3.0	02/19/14 11:06	
Dibromomethane	ug/L	ND	10.0	02/19/14 11:06	
Ethylbenzene	ug/L	ND	1.0	02/19/14 11:06	
Iodomethane	ug/L	ND	10.0	02/19/14 11:06	
Methylene Chloride	ug/L	ND	1.0	02/19/14 11:06	
Styrene	ug/L	ND	1.0	02/19/14 11:06	
Tetrachloroethene	ug/L	ND	1.0	02/19/14 11:06	
Toluene	ug/L	ND	1.0	02/19/14 11:06	
trans-1,2-Dichloroethene	ug/L	ND	5.0	02/19/14 11:06	
trans-1,3-Dichloropropene	ug/L	ND	1.0	02/19/14 11:06	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	02/19/14 11:06	

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QUALITY CONTROL DATA

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

METHOD BLANK: 1140079 Matrix: Water
Associated Lab Samples: 92189694014, 92189694015, 92189694016, 92189694017, 92189694018, 92189694019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichloroethene	ug/L	ND	1.0	02/19/14 11:06	
Trichlorofluoromethane	ug/L	ND	1.0	02/19/14 11:06	
Vinyl acetate	ug/L	ND	50.0	02/19/14 11:06	
Vinyl chloride	ug/L	ND	1.0	02/19/14 11:06	
Xylene (Total)	ug/L	ND	5.0	02/19/14 11:06	
1,2-Dichloroethane-d4 (S)	%	94	70-130	02/19/14 11:06	
4-Bromofluorobenzene (S)	%	98	70-130	02/19/14 11:06	
Toluene-d8 (S)	%	97	70-130	02/19/14 11:06	

LABORATORY CONTROL SAMPLE: 1140080

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.0	100	70-130	
1,1,1-Trichloroethane	ug/L	20	19.8	99	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.8	99	70-130	
1,1,2-Trichloroethane	ug/L	20	21.0	105	70-130	
1,1-Dichloroethane	ug/L	20	19.4	97	70-130	
1,1-Dichloroethene	ug/L	20	19.9	100	70-132	
1,2,3-Trichloropropane	ug/L	20	19.7	99	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	17.9	89	70-130	
1,2-Dibromoethane (EDB)	ug/L	20	21.0	105	70-130	
1,2-Dichlorobenzene	ug/L	20	19.6	98	70-130	
1,2-Dichloroethane	ug/L	20	19.7	99	70-130	
1,2-Dichloropropane	ug/L	20	20.3	102	70-130	
1,3-Dichloropropane	ug/L	20	20.4	102	70-130	
1,4-Dichlorobenzene	ug/L	20	19.5	97	70-130	
2-Butanone (MEK)	ug/L	40	37.8J	95	70-145	
2-Hexanone	ug/L	40	42.7J	107	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	40	39.2J	98	70-140	
Acetone	ug/L	40	37.1J	93	50-175	
Acrylonitrile	ug/L	100	97.4J	97	70-143	
Benzene	ug/L	20	20.5	102	70-130	
Bromochloromethane	ug/L	20	20.2	101	70-130	
Bromodichloromethane	ug/L	20	20.6	103	70-130	
Bromoform	ug/L	20	19.2	96	70-130	
Bromomethane	ug/L	20	12.6	63	54-130	
Carbon disulfide	ug/L	20	21.9J	109	70-131	
Carbon tetrachloride	ug/L	20	20.3	102	70-132	
Chlorobenzene	ug/L	20	20.0	100	70-130	
Chloroethane	ug/L	20	13.0	65	64-134	
Chloroform	ug/L	20	20.0	100	70-130	
Chloromethane	ug/L	20	15.8	79	64-130	
cis-1,2-Dichloroethene	ug/L	20	18.7	94	70-131	
cis-1,3-Dichloropropene	ug/L	20	20.5	102	70-130	
Dibromochloromethane	ug/L	20	20.2	101	70-130	

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QUALITY CONTROL DATA

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

LABORATORY CONTROL SAMPLE: 1140080

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromomethane	ug/L	20	20.8	104	70-131	
Ethylbenzene	ug/L	20	20.0	100	70-130	
Iodomethane	ug/L	40	20.6	51	49-180	
Methylene Chloride	ug/L	20	19.0	95	63-130	
Styrene	ug/L	20	21.1	106	70-130	
Tetrachloroethene	ug/L	20	20.0	100	70-130	
Toluene	ug/L	20	19.8	99	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.8	94	70-130	
trans-1,3-Dichloropropene	ug/L	20	20.6	103	70-132	
trans-1,4-Dichloro-2-butene	ug/L	20	20.6J	103	70-141	
Trichloroethene	ug/L	20	19.2	96	70-130	
Trichlorofluoromethane	ug/L	20	18.1	90	62-133	
Vinyl acetate	ug/L	40	40.3J	101	66-157	
Vinyl chloride	ug/L	20	16.5	82	69-130	
Xylene (Total)	ug/L	60	61.2	102	70-130	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1141490 1141491

Parameter	Units	92189694014 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	56.0	56.0	112	112	70-166	0	30	
Benzene	ug/L	ND	50	50	58.4	58.3	117	117	70-148	0	30	
Chlorobenzene	ug/L	ND	50	50	54.3	55.1	109	110	70-146	1	30	
Toluene	ug/L	ND	50	50	54.4	53.3	109	107	70-155	2	30	
Trichloroethene	ug/L	ND	50	50	59.4	59.1	119	118	69-151	0	30	
1,2-Dichloroethane-d4 (S)	%						87	88	70-130			
4-Bromofluorobenzene (S)	%						99	98	70-130			
Toluene-d8 (S)	%						97	96	70-130			

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QUALITY CONTROL DATA

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

QC Batch: WET/29539
QC Batch Method: SM 5210B
Analysis Method: SM 5210B
Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 92189694013

METHOD BLANK: 1138149
Matrix: Water
Associated Lab Samples: 92189694013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	ug/L	ND	2000	02/20/14 09:16	

LABORATORY CONTROL SAMPLE: 1138150

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	ug/L	198000	183000	92	84.5-115.4	

SAMPLE DUPLICATE: 1138151

Parameter	Units	92189658005 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	ug/L	13.4 mg/L	24800	60	20	D6

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QUALITY CONTROL DATA

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

QC Batch: WET/29543
QC Batch Method: EPA 9040
Analysis Method: EPA 9040
Analysis Description: 9040 pH
Associated Lab Samples: 92189694013

SAMPLE DUPLICATE: 1138329

Parameter	Units	92189694013 Result	Dup Result	RPD	Max RPD	Qualifiers
pH	Std. Units	7.0	7.0	0	20	H6

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QUALITY CONTROL DATA

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

QC Batch: WETA/18088
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Associated Lab Samples: 92189694013

METHOD BLANK: 1139905
Matrix: Water
Associated Lab Samples: 92189694013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	ug/L	ND	250000	02/19/14 17:48	

LABORATORY CONTROL SAMPLE: 1139906

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	20000	18800J	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1139907 1139908

Parameter	Units	92188911001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	ug/L	39.7 mg/L	20000	20000	58700J	58600J	95	95	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1139909 1139910

Parameter	Units	92189190005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	ug/L	2.7 mg/L	20000	20000	20700J	20700J	90	90	90-110	0	20	

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

QC Batch: WETA/18046
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 92189694013

METHOD BLANK: 1138152
Matrix: Water
Associated Lab Samples: 92189694013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	ug/L	ND	20.0	02/15/14 03:35	

LABORATORY CONTROL SAMPLE: 1138153

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	ug/L	2500	2480	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1138154 1138155

Parameter	Units	92189651002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	ug/L	0.38 mg/L	2500	2500	2920	2910	101	101	90-110	0	20	

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QUALITY CONTROL DATA

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

QC Batch: WETA/18144
QC Batch Method: EPA 365.1
Analysis Method: EPA 365.1
Analysis Description: 365.1 Phosphorus, Total
Associated Lab Samples: 92189694013

METHOD BLANK: 1143733
Matrix: Water
Associated Lab Samples: 92189694013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	ug/L	ND	50.0	02/25/14 10:11	

LABORATORY CONTROL SAMPLE: 1143734

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	ug/L	2500	2630	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1143735 1143736

Parameter	Units	35126578011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	ug/L	7.6 mg/L	2500	2500	10800	12900	127	209	90-110	17	20	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1143737 1143738

Parameter	Units	92190489009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	ug/L	0.90 mg/L	2500	2500	3360	3430	98	101	90-110	2	20	

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QUALITY CONTROL DATA

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

QC Batch: WETA/18104 | Analysis Method: SM 5220D
QC Batch Method: SM 5220D | Analysis Description: 5220D COD
Associated Lab Samples: 92189694013

METHOD BLANK: 1141039 | Matrix: Water
Associated Lab Samples: 92189694013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	ug/L	ND	25000	02/21/14 11:10	

LABORATORY CONTROL SAMPLE: 1141040

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	ug/L	750000	760000	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1141041 1141042

Parameter	Units	92190092002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	ug/L	9010 mg/L	7500000	7500000	17500000	17600000	113	114	75-125	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1141043 1141044

Parameter	Units	92189694013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	ug/L	470000	1500000	1500000	1940000	1950000	98	99	75-125	1	20	

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QUALIFIERS

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

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

D6	The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
H3	Sample was received or analysis requested beyond the recognized method holding time.
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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92189694001	**MW-1**	EPA 3010	MPRP/15240	EPA 6010	ICP/13832
92189694002	**MW-2**	EPA 3010	MPRP/15240	EPA 6010	ICP/13832
92189694003	**MW-3**	EPA 3010	MPRP/15240	EPA 6010	ICP/13832
92189694004	**MW-4**	EPA 3010	MPRP/15240	EPA 6010	ICP/13832
92189694005	**MW-5**	EPA 3010	MPRP/15240	EPA 6010	ICP/13832
92189694006	**MW-6**	EPA 3010	MPRP/15240	EPA 6010	ICP/13832
92189694007	**MW-7**	EPA 3010	MPRP/15242	EPA 6010	ICP/13830
92189694008	**MW-9**	EPA 3010	MPRP/15242	EPA 6010	ICP/13830
92189694009	**MW-10**	EPA 3010	MPRP/15242	EPA 6010	ICP/13830
92189694010	**MW-15**	EPA 3010	MPRP/15242	EPA 6010	ICP/13830
92189694011	**SW-4**	EPA 3010	MPRP/15242	EPA 6010	ICP/13830
92189694012	**SW-5**	EPA 3010	MPRP/15242	EPA 6010	ICP/13830
92189694013	**LE-1**	EPA 3010	MPRP/15242	EPA 6010	ICP/13830
92189694014	**MW-8**	EPA 3010	MPRP/15268	EPA 6010	ICP/13855
92189694015	**MW-11**	EPA 3010	MPRP/15268	EPA 6010	ICP/13855
92189694016	**MW-12**	EPA 3010	MPRP/15268	EPA 6010	ICP/13855
92189694017	**MW-13**	EPA 3010	MPRP/15268	EPA 6010	ICP/13855
92189694018	**MW-14**	EPA 3010	MPRP/15268	EPA 6010	ICP/13855
92189694019	**MW-16R**	EPA 3010	MPRP/15268	EPA 6010	ICP/13855
92189694001	**MW-1**	EPA 8260	MSV/25809		
92189694002	**MW-2**	EPA 8260	MSV/25809		
92189694003	**MW-3**	EPA 8260	MSV/25809		
92189694004	**MW-4**	EPA 8260	MSV/25809		
92189694005	**MW-5**	EPA 8260	MSV/25809		
92189694006	**MW-6**	EPA 8260	MSV/25809		
92189694007	**MW-7**	EPA 8260	MSV/25809		
92189694008	**MW-9**	EPA 8260	MSV/25809		
92189694009	**MW-10**	EPA 8260	MSV/25809		
92189694010	**MW-15**	EPA 8260	MSV/25809		
92189694011	**SW-4**	EPA 8260	MSV/25809		
92189694012	**SW-5**	EPA 8260	MSV/25809		
92189694013	**LE-1**	EPA 8260	MSV/25809		
92189694014	**MW-8**	EPA 8260	MSV/25835		
92189694015	**MW-11**	EPA 8260	MSV/25835		
92189694016	**MW-12**	EPA 8260	MSV/25835		
92189694017	**MW-13**	EPA 8260	MSV/25835		
92189694018	**MW-14**	EPA 8260	MSV/25835		
92189694019	**MW-16R**	EPA 8260	MSV/25835		
92189694013	**LE-1**	SM 5210B	WET/29539	SM 5210B	WET/29540
92189694013	**LE-1**	EPA 9040	WET/29543		
92189694013	**LE-1**	EPA 300.0	WETA/18088		
92189694013	**LE-1**	EPA 353.2	WETA/18046		
92189694013	**LE-1**	EPA 365.1	WETA/18144		
92189694013	**LE-1**	SM 5220D	WETA/18104		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Wayne Lined MSWLF
Pace Project No.: 92189694

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch

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Pace Analytical	Document Name: Sample Condition Upon Receipt (SCUR)	Page 1 of 2
	Document Number: F-CHR-CS-03-rev.13	Issuing Authority: Pace Huntersville Quality Office

Client Name: Municipal Engineering

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other_____

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

Optional
Proj. Due Date:
Proj. Name:

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

Thermometer Used: IR Gun T1102 T1301 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor **T1102**: No Correction **T1301**: No Correction

Corrected Cooler Temp.: 3.6 °C **Biological Tissue is Frozen:** Yes No N/A

Date and Initials of person examining contents: RD 2/14/14

Temp should be above freezing to 6°C

		Comments:
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/time on bottles - All
-Includes date/time/ID/Analysis Matrix:_____		missing metal for sample #2 pgl
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	
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: 2/14/14

Comments/ Resolution: Jonathan instructed to analyze Bod + Nitrate outside of holding time, KG.

SCURF Review: JY **Date:** 2/14/14

SRF Review: JY **Date:** 2/14/14

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)

WO# : 92189694

92189694

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 2

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:	Wayne Lined MSWLF	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): 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	VOCs- App I	Total Metals-App I											92189694
1	MW-1	WT	G			2/11/14	9:30		4			1	3						X	X											001
2	MW-2	WT	G				3:40		4			1	3						X	X											002
3	MW-3	WT	G				3:00		4			1	3						X	X											003
4	MW-4	WT	G				1:00		4			1	3						X	X											004
5	MW-5	WT	G				1:35		4			1	3						X	X											005
6	MW-6	WT	G				2:00		4			1	3						X	X											006
7	MW-7	WT	G				2:35		4			1	3						X	X											007
8	MW-8	WT	G						4			1	3						X	X											
9	MW-9	WT	G			2/11/14	11:40		4			1	3						X	X											008
10	MW-10	WT	G				11:00		4			1	3						X	X											009
11	MW-11	WT	G						4			1	3						X	X											
12	MW-12	WT	G						4			1	3						X	X											

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

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	MESCO	2/12/14	1120	[illegible] / Pace	2/12/14	1120				
	[illegible] / Pace	2/12/14	1130	Zack [illegible] / Pace	2/14/14	1130	3.6	Y	N	Y

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Jonathan Pfohl					
SIGNATURE of SAMPLER:	[signature]	DATE Signed: 2/12/14				

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 2 Of 2

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:	Wayne 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	Total Metals-App I		Sulfate	pH	Phosphorus	BOD., 5 Day	COD	Nitrate					92189694
																		N	N		N	N	N	N	N	N					
1	MW-13	WT	G						4			1	3					X	X												
2	MW-14	WT	G						4			1	3					X	X												
3	MW-15	WT	G			2/11/14	10:05		4			1	3					X	X												9218 910
4	MW-16R	WW	G						4			1	3					X	X												
5	SW-4	WT	G			2/10/14	5:30		4			1	3					X	X												011
6	SW-5	WT	G			2/10/14	5:05		4			1	3					X	X												012
7	LE-1	WW	G			2/11/14	4:05					1	3					X	X		X	X	X	X	X	X					013
8																															003
9																															004
10																															005
11																															006
12																															007

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	MESQ	2/12/14	1120		2/12/14	1120	
		2/12/14	1830		2/14/14	1130	3.6 4 no 4

SAMPLE CONDITIONS	TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	3.6	4	no	4

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jonathan Pfohl

SIGNATURE of SAMPLER: [signature] DATE Signed: 2/12/14

Pace Analytical	Sample Condition Upon Receipt (SCUR)	Page 1 of 2
	Document Number: F-CHR-CS-03-rev.13	Issuing Authority: Pace Huntersville Quality Office

Client Name: ~~AV~~ AD 2/18/14 Municipal Engineering Services

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

Optional
Proj. Due Date:
Proj. Name:

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

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

Thermometer Used: IR Gun T1102 (T1301) **Type of Ice:** (Wet) Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor **T1102**: No Correction **T1301**: No Correction

Corrected Cooler Temp.: 2.4 °C **Biological Tissue is Frozen:** Yes No N/A

Date and Initials of person examining contents: AD 2/18/14

Temp should be above freezing to 6°C

		Comments:
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. No Dates times on bottles ~~No dates/times on any bottles~~
Sample Labels match COC: AD 2/18/14	☑Yes ☑No ☐N/A	12. ~~Received EB + FB Samples, Not on Chain~~ ~~EB-6260, metals, 600 water, 200 ml~~ ~~FB-6260, metals by 6010~~ AD 2/18/14
-Includes date/time/ID/Analysis Matrix:_____		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13. Sample 1 pH=7 2 pH=7 3 pH=2 4 pH=7 5 pH=0 6 pH=0
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	
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. Not on COC, water, no Date no time~~
Trip Blank Custody Seals Present	~~☑Yes ☐No ☐N/A~~	~~No analysis~~ AD 2/18/14
Pace Trip Blank Lot # (if purchased):_____		

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

Person Contacted:_____ Date/Time:_____

Comments/ Resolution:_____

SCURF Review: JG **Date:** 2/18/14

SRF Review: JG **Date:** 2/19/14

Place label here

92189694

OR

Handwrite project number (if no label available)

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)

Report along w/ other samples submitted last week

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 2 Of 2

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:	[redacted]
Container Order Number:	Wayne Co Lined MSWLF

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): VOCs- App I (N), Metals-App I (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: VOCs- App I	Analyses Test: Metals-App I		
																					92189694
1	[redacted] MW-8	WT	G			2/14/14	10:35		4			1	3					X	X		92189694014
2	[redacted] MW-11	WT	G				11:05		4			1	3					X	X		015
3	[redacted] MW-12	WT	G				1:35		4			1	3					X	X		016
4	[redacted] MW-13	WT	G				12:00		4			1	3					X	X		017
5	[redacted] MW-14	WT	G				2:00		4			1	3					X	X		018
6	[redacted] MW-16R	WT	G			↓	3:10		4			1	3					X	X		019
7	[redacted]	WT	G						4			1	3					X	X		
8	[redacted]	WT	G						4			1	3					X	X		
9	[redacted]	WT	G						4			1	3					X	X		
10	[redacted]	WT	G						4			1	3					X	X		
11	[redacted]	WT	G						4			1	3					X	X		
12	[redacted]	WT	G						4			1	3					X	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature] MSW	2/17/14	12:30	[signature] / Pace	02/18/14	0925				
	Left @ Stable			[signature]	2/18/14	1300	2-4	Y	N	Y
	[signature] / Pace	02/18/14	1300	↓	↓	↓	↓	↓	↓	↓
							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: [signature] DATE Signed: 2/17/14

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

March 31, 2014

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

RE: Project: WAYNE LINED MSWLF
Pace Project No.: 92194254

Dear Mr. Pfohl:
Enclosed are the analytical results for sample(s) received by the laboratory on March 21, 2014. 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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Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project:	WAYNE LINED MSWLF
Pace Project No.:	92194254

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

SAMPLE SUMMARY

Project: WAYNE LINED MSWLF
Pace Project No.: 92194254

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92194254001	**MW-11**	Water	02/14/14 11:05	03/21/14 13:15

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(704)875-9092

SAMPLE ANALYTE COUNT

Project: WAYNE LINED MSWLF
Pace Project No.: 92194254

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92194254001	**MW-11**	EPA 6010	JMW	15	PASI-A

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(704)875-9092

ANALYTICAL RESULTS

Project: WAYNE LINED MSWLF
Pace Project No.: 92194254

Sample: MW-11 **Lab ID: 92194254001** Collected: 02/14/14 11:05 Received: 03/21/14 13:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony, Dissolved	**3.1J**	ug/L	5.0	2.6	1	03/26/14 11:55	03/28/14 21:15	7440-36-0	
Arsenic, Dissolved	ND	ug/L	10.0	2.7	1	03/26/14 11:55	03/28/14 21:15	7440-38-2	
Barium, Dissolved	**5.1**	ug/L	5.0	0.20	1	03/26/14 11:55	03/28/14 21:15	7440-39-3	
Beryllium, Dissolved	ND	ug/L	1.0	0.10	1	03/26/14 11:55	03/28/14 21:15	7440-41-7	
Cadmium, Dissolved	**1.1**	ug/L	1.0	0.50	1	03/26/14 11:55	03/28/14 21:15	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	0.40	1	03/26/14 11:55	03/28/14 21:15	7440-47-3	
Cobalt, Dissolved	ND	ug/L	5.0	0.60	1	03/26/14 11:55	03/28/14 21:15	7440-48-4	
Copper, Dissolved	**1.2J**	ug/L	5.0	0.30	1	03/26/14 11:55	03/28/14 21:15	7440-50-8	
Lead, Dissolved	ND	ug/L	5.0	4.0	1	03/26/14 11:55	03/28/14 21:15	7439-92-1	
Nickel, Dissolved	ND	ug/L	5.0	1.7	1	03/26/14 11:55	03/28/14 21:15	7440-02-0	
Selenium, Dissolved	ND	ug/L	10.0	3.8	1	03/26/14 11:55	03/28/14 21:15	7782-49-2	
Silver, Dissolved	**0.25J**	ug/L	5.0	0.10	1	03/26/14 11:55	03/28/14 21:15	7440-22-4	
Thallium, Dissolved	ND	ug/L	10.0	3.0	1	03/26/14 11:55	03/28/14 21:15	7440-28-0	
Vanadium, Dissolved	ND	ug/L	5.0	0.20	1	03/26/14 11:55	03/28/14 21:15	7440-62-2	
Zinc, Dissolved	**6.8J**	ug/L	10.0	0.40	1	03/26/14 11:55	03/28/14 21:15	7440-66-6	B

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QUALITY CONTROL DATA

Project: WAYNE LINED MSWLF
Pace Project No.: 92194254

QC Batch: MPRP/15523 | Analysis Method: EPA 6010
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET Filtered
Associated Lab Samples: 92194254001

METHOD BLANK: 1164975 | Matrix: Water
Associated Lab Samples: 92194254001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony, Dissolved	ug/L	ND	5.0	03/28/14 20:46	
Arsenic, Dissolved	ug/L	ND	10.0	03/28/14 20:46	
Barium, Dissolved	ug/L	ND	5.0	03/28/14 20:46	
Beryllium, Dissolved	ug/L	ND	1.0	03/28/14 20:46	
Cadmium, Dissolved	ug/L	ND	1.0	03/28/14 20:46	
Chromium, Dissolved	ug/L	ND	5.0	03/28/14 20:46	
Cobalt, Dissolved	ug/L	ND	5.0	03/28/14 20:46	
Copper, Dissolved	ug/L	ND	5.0	03/28/14 20:46	
Lead, Dissolved	ug/L	ND	5.0	03/28/14 20:46	
Nickel, Dissolved	ug/L	ND	5.0	03/28/14 20:46	
Selenium, Dissolved	ug/L	ND	10.0	03/28/14 20:46	
Silver, Dissolved	ug/L	ND	5.0	03/28/14 20:46	
Thallium, Dissolved	ug/L	ND	10.0	03/28/14 20:46	
Vanadium, Dissolved	ug/L	ND	5.0	03/28/14 20:46	
Zinc, Dissolved	ug/L	4.0J	10.0	03/28/14 20:46	

LABORATORY CONTROL SAMPLE: 1164976

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony, Dissolved	ug/L	500	477	95	80-120	
Arsenic, Dissolved	ug/L	500	451	90	80-120	
Barium, Dissolved	ug/L	500	468	94	80-120	
Beryllium, Dissolved	ug/L	500	482	96	80-120	
Cadmium, Dissolved	ug/L	500	475	95	80-120	
Chromium, Dissolved	ug/L	500	476	95	80-120	
Cobalt, Dissolved	ug/L	500	472	94	80-120	
Copper, Dissolved	ug/L	500	459	92	80-120	
Lead, Dissolved	ug/L	500	469	94	80-120	
Nickel, Dissolved	ug/L	500	478	96	80-120	
Selenium, Dissolved	ug/L	500	453	91	80-120	
Silver, Dissolved	ug/L	250	238	95	80-120	
Thallium, Dissolved	ug/L	500	452	90	80-120	
Vanadium, Dissolved	ug/L	500	478	96	80-120	
Zinc, Dissolved	ug/L	500	465	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1164977 1164978

Parameter	Units	92194233001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony, Dissolved	ug/L	ND	500	500	456	457	91	91	75-125	0	20	

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
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QUALITY CONTROL DATA

Project: WAYNE LINED MSWLF
Pace Project No.: 92194254

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1164977 1164978

Parameter	Units	92194233001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic, Dissolved	ug/L	ND	500	500	441	441	88	88	75-125	0	20	
Barium, Dissolved	ug/L	50.8	500	500	488	487	87	87	75-125	0	20	
Beryllium, Dissolved	ug/L	ND	500	500	461	458	92	92	75-125	1	20	
Cadmium, Dissolved	ug/L	ND	500	500	448	446	90	89	75-125	0	20	
Chromium, Dissolved	ug/L	ND	500	500	450	447	90	89	75-125	1	20	
Cobalt, Dissolved	ug/L	ND	500	500	446	443	89	88	75-125	1	20	
Copper, Dissolved	ug/L	ND	500	500	438	438	88	88	75-125	0	20	
Lead, Dissolved	ug/L	ND	500	500	436	435	87	87	75-125	0	20	
Nickel, Dissolved	ug/L	ND	500	500	448	445	90	89	75-125	1	20	
Selenium, Dissolved	ug/L	ND	500	500	445	446	89	89	75-125	0	20	
Silver, Dissolved	ug/L	ND	250	250	226	224	90	90	75-125	1	20	
Thallium, Dissolved	ug/L	ND	500	500	422	423	84	84	75-125	0	20	
Vanadium, Dissolved	ug/L	ND	500	500	455	453	91	91	75-125	0	20	
Zinc, Dissolved	ug/L	ND	500	500	446	441	88	87	75-125	1	20	

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

QUALIFIERS

Project: WAYNE LINED MSWLF
Pace Project No.: 92194254

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

B	Analyte was detected in the associated method blank.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WAYNE LINED MSWLF
Pace Project No.: 92194254

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92194254001	**MW-11**	EPA 3010	MPRP/15523	EPA 6010	ICP/14065

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Pace Analytical	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: December 16, 2013 Page 1 of 2
	Document Number: **F-CHR-CS-03-rev.13**	Issuing Authority: Pace Huntersville Quality Office

Client Name: Municipal Eng

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other_____

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

Optional
Proj. Due Date:
Proj. Name:

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

Thermometer Used: IR Gun T1102 T1301 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor **T1102**: No Correction **T1301**: No Correction

Corrected Cooler Temp.: 5.6 °C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: EW 3/21/14

		Comments:
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. Doesn't indicate field filtered or not
Sample Labels match COC:	☐Yes ☑No ☐N/A	12. No date/time on bottle label
-Includes date/time/ID/Analysis Matrix:_____		
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	
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: [signature] **Date:** 3/21/14

SRF Review: [signature] **Date:** 3/22/14

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)

Place Label Here

WO#: 92194254

92194254

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:	Wayne 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): Y

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	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test: Dissolved Total Metals-App I	92914254
1	MW-11	WT	G			2/14/14	11:05		1	1								x	001
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	/MESCO	3/17/14	8:33	Pace	3/17/14	08:37				
	Pace	3/21/14	13:15		3/21/14	1315	5.6	Y	N	Y

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Jonathan Pfohl					
SIGNATURE of SAMPLER:		DATE Signed: 3/17/14				

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

February 27, 2014

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

RE: Project: WAYNE MSWLF BLANKS
Pace Project No.: 92189963

Dear Mr. Pfohl:
Enclosed are the analytical results for sample(s) received by the laboratory on February 18, 2014. 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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Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: WAYNE MSWLF BLANKS
Pace Project No.: 92189963

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

SAMPLE SUMMARY

Project: WAYNE MSWLF BLANKS
Pace Project No.: 92189963

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92189963001	**EB**	Water	02/14/14 08:05	02/18/14 13:00
92189963002	**FB**	Water	02/14/14 08:12	02/18/14 13:00
92189963003	**TB**	Water	02/14/14 00:00	02/18/14 13:00

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Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: WAYNE MSWLF BLANKS
Pace Project No.: 92189963

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92189963001	**EB**	EPA 6010	JMW	16	PASI-A
		EPA 7470	MTS	1	PASI-A
		EPA 8260	MCK	67	PASI-C
		SM 4500-CN-E	JDA	1	PASI-A
92189963002	**FB**	EPA 6010	JMW	16	PASI-A
		EPA 7470	MTS	1	PASI-A
		EPA 8260	MCK	67	PASI-C
92189963003	**TB**	EPA 8260	MCK	67	PASI-C

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ANALYTICAL RESULTS

Project: WAYNE MSWLF BLANKS
Pace Project No.: 92189963

Sample: EB **Lab ID: 92189963001** Collected: 02/14/14 08:05 Received: 02/18/14 13:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	02/20/14 10:40	02/26/14 21:08	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	02/20/14 10:40	02/26/14 21:08	7440-38-2	
Barium	ND	ug/L	100	5.0	1	02/20/14 10:40	02/26/14 21:08	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	02/20/14 10:40	02/26/14 21:08	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	02/20/14 10:40	02/26/14 21:08	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	02/20/14 10:40	02/26/14 21:08	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	02/20/14 10:40	02/26/14 21:08	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	02/20/14 10:40	02/26/14 21:08	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/20/14 10:40	02/26/14 21:08	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	02/20/14 10:40	02/26/14 21:08	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/20/14 10:40	02/26/14 21:08	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/20/14 10:40	02/26/14 21:08	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	02/20/14 10:40	02/26/14 21:08	7440-28-0	
Tin	ND	ug/L	100	5.0	1	02/20/14 10:40	02/26/14 21:08	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	02/20/14 10:40	02/26/14 21:08	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	02/20/14 10:40	02/26/14 21:08	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	02/19/14 16:45	02/20/14 16:35	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/19/14 14:16	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		02/19/14 14:16	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		02/19/14 14:16	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		02/19/14 14:16	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		02/19/14 14:16	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		02/19/14 14:16	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/19/14 14:16	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/19/14 14:16	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/19/14 14:16	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/19/14 14:16	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/19/14 14:16	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/19/14 14:16	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/19/14 14:16	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/19/14 14:16	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/19/14 14:16	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/19/14 14:16	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/19/14 14:16	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		02/19/14 14:16	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/19/14 14:16	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/19/14 14:16	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/19/14 14:16	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/19/14 14:16	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/19/14 14:16	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		02/19/14 14:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/19/14 14:16	106-46-7	

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ANALYTICAL RESULTS

Project: WAYNE MSWLF BLANKS
Pace Project No.: 92189963

Sample: EB **Lab ID: 92189963001** Collected: 02/14/14 08:05 Received: 02/18/14 13:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/19/14 14:16	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		02/19/14 14:16	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/19/14 14:16	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/19/14 14:16	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/19/14 14:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/19/14 14:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/19/14 14:16	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/19/14 14:16	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/19/14 14:16	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		02/19/14 14:16	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		02/19/14 14:16	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/19/14 14:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/19/14 14:16	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/19/14 14:16	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		02/19/14 14:16	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		02/19/14 14:16	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/19/14 14:16	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/19/14 14:16	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		02/19/14 14:16	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		02/19/14 14:16	126-98-7	
Methylene Chloride	**2.8**	ug/L	1.0	0.97	1		02/19/14 14:16	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		02/19/14 14:16	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/19/14 14:16	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		02/19/14 14:16	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		02/19/14 14:16	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		02/19/14 14:16	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/19/14 14:16	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/19/14 14:16	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/19/14 14:16	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/19/14 14:16	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		02/19/14 14:16	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/19/14 14:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/19/14 14:16	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/19/14 14:16	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/19/14 14:16	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/19/14 14:16	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/19/14 14:16	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/19/14 14:16	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/19/14 14:16	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		02/19/14 14:16	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130		1		02/19/14 14:16	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		02/19/14 14:16	2037-26-5	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E								
Cyanide	**5.7J**	ug/L	10.0	5.0	1		02/23/14 12:31	57-12-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WAYNE MSWLF BLANKS
Pace Project No.: 92189963

Sample: FB **Lab ID: 92189963002** Collected: 02/14/14 08:12 Received: 02/18/14 13:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	02/20/14 10:40	02/26/14 21:12	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	02/20/14 10:40	02/26/14 21:12	7440-38-2	
Barium	ND	ug/L	100	5.0	1	02/20/14 10:40	02/26/14 21:12	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	02/20/14 10:40	02/26/14 21:12	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	02/20/14 10:40	02/26/14 21:12	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	02/20/14 10:40	02/26/14 21:12	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	02/20/14 10:40	02/26/14 21:12	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	02/20/14 10:40	02/26/14 21:12	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/20/14 10:40	02/26/14 21:12	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	02/20/14 10:40	02/26/14 21:12	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/20/14 10:40	02/26/14 21:12	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/20/14 10:40	02/26/14 21:12	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	02/20/14 10:40	02/26/14 21:12	7440-28-0	
Tin	ND	ug/L	100	5.0	1	02/20/14 10:40	02/26/14 21:12	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	02/20/14 10:40	02/26/14 21:12	7440-62-2	
Zinc	**19.5**	ug/L	10.0	10.0	1	02/20/14 10:40	02/26/14 21:12	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	02/19/14 16:45	02/20/14 16:43	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		02/19/14 14:31	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		02/19/14 14:31	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		02/19/14 14:31	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		02/19/14 14:31	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		02/19/14 14:31	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		02/19/14 14:31	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/19/14 14:31	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/19/14 14:31	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/19/14 14:31	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/19/14 14:31	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/19/14 14:31	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/19/14 14:31	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/19/14 14:31	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/19/14 14:31	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/19/14 14:31	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/19/14 14:31	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/19/14 14:31	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		02/19/14 14:31	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/19/14 14:31	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/19/14 14:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/19/14 14:31	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/19/14 14:31	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/19/14 14:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		02/19/14 14:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/19/14 14:31	106-46-7	

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ANALYTICAL RESULTS

Project: WAYNE MSWLF BLANKS
Pace Project No.: 92189963

Sample: FB **Lab ID: 92189963002** Collected: 02/14/14 08:12 Received: 02/18/14 13:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/19/14 14:31	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		02/19/14 14:31	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/19/14 14:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/19/14 14:31	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/19/14 14:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/19/14 14:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/19/14 14:31	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/19/14 14:31	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/19/14 14:31	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		02/19/14 14:31	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		02/19/14 14:31	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/19/14 14:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/19/14 14:31	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/19/14 14:31	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		02/19/14 14:31	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		02/19/14 14:31	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/19/14 14:31	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/19/14 14:31	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		02/19/14 14:31	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		02/19/14 14:31	126-98-7	
Methylene Chloride	**2.8**	ug/L	1.0	0.97	1		02/19/14 14:31	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		02/19/14 14:31	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/19/14 14:31	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		02/19/14 14:31	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		02/19/14 14:31	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		02/19/14 14:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/19/14 14:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/19/14 14:31	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/19/14 14:31	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/19/14 14:31	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		02/19/14 14:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/19/14 14:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/19/14 14:31	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/19/14 14:31	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/19/14 14:31	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/19/14 14:31	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/19/14 14:31	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/19/14 14:31	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/19/14 14:31	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		02/19/14 14:31	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130		1		02/19/14 14:31	17060-07-0	
Toluene-d8 (S)	96	%	70-130		1		02/19/14 14:31	2037-26-5	

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

ANALYTICAL RESULTS

Project: WAYNE MSWLF BLANKS
Pace Project No.: 92189963

Sample: TB **Lab ID: 92189963003** Collected: 02/14/14 00:00 Received: 02/18/14 13:00 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		02/19/14 14:47	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		02/19/14 14:47	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		02/19/14 14:47	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		02/19/14 14:47	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		02/19/14 14:47	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		02/19/14 14:47	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/19/14 14:47	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/19/14 14:47	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/19/14 14:47	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/19/14 14:47	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/19/14 14:47	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/19/14 14:47	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/19/14 14:47	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/19/14 14:47	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/19/14 14:47	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/19/14 14:47	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/19/14 14:47	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		02/19/14 14:47	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/19/14 14:47	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/19/14 14:47	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/19/14 14:47	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/19/14 14:47	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/19/14 14:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		02/19/14 14:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/19/14 14:47	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/19/14 14:47	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		02/19/14 14:47	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/19/14 14:47	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/19/14 14:47	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/19/14 14:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/19/14 14:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/19/14 14:47	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/19/14 14:47	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/19/14 14:47	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		02/19/14 14:47	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		02/19/14 14:47	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/19/14 14:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/19/14 14:47	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/19/14 14:47	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		02/19/14 14:47	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		02/19/14 14:47	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/19/14 14:47	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/19/14 14:47	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		02/19/14 14:47	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		02/19/14 14:47	126-98-7	
Methylene Chloride	**0.99J**	ug/L	1.0	0.97	1		02/19/14 14:47	75-09-2	

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ANALYTICAL RESULTS

Project: WAYNE MSWLF BLANKS
Pace Project No.: 92189963

Sample: TB **Lab ID: 92189963003** Collected: 02/14/14 00:00 Received: 02/18/14 13:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Methyl methacrylate	ND	ug/L	30.0	2.0	1		02/19/14 14:47	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/19/14 14:47	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		02/19/14 14:47	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		02/19/14 14:47	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		02/19/14 14:47	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/19/14 14:47	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/19/14 14:47	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/19/14 14:47	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/19/14 14:47	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		02/19/14 14:47	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/19/14 14:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/19/14 14:47	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/19/14 14:47	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/19/14 14:47	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/19/14 14:47	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/19/14 14:47	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/19/14 14:47	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/19/14 14:47	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		02/19/14 14:47	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130		1		02/19/14 14:47	17060-07-0	
Toluene-d8 (S)	96	%	70-130		1		02/19/14 14:47	2037-26-5	

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QUALITY CONTROL DATA

Project: WAYNE MSWLF BLANKS
Pace Project No.: 92189963

QC Batch: MERP/6195 | Analysis Method: EPA 7470
QC Batch Method: EPA 7470 | Analysis Description: 7470 Mercury
Associated Lab Samples: 92189963001, 92189963002

METHOD BLANK: 1140558 | Matrix: Water
Associated Lab Samples: 92189963001, 92189963002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	02/20/14 16:20	

LABORATORY CONTROL SAMPLE: 1140559

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.5	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1140560 1140561

Parameter	Units	92189963001 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	2.6	2.6	106	105	75-125	1	25	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: WAYNE MSWLF BLANKS
Pace Project No.: 92189963

QC Batch: MPRP/15268 | Analysis Method: EPA 6010
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 92189963001, 92189963002

METHOD BLANK: 1141158 | Matrix: Water
Associated Lab Samples: 92189963001, 92189963002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	6.0	02/26/14 20:38	
Arsenic	ug/L	ND	10.0	02/26/14 20:38	
Barium	ug/L	ND	100	02/26/14 20:38	
Beryllium	ug/L	ND	1.0	02/26/14 20:38	
Cadmium	ug/L	ND	1.0	02/26/14 20:38	
Chromium	ug/L	ND	10.0	02/26/14 20:38	
Cobalt	ug/L	ND	10.0	02/26/14 20:38	
Copper	ug/L	ND	10.0	02/26/14 20:38	
Lead	ug/L	ND	10.0	02/26/14 20:38	
Nickel	ug/L	ND	50.0	02/26/14 20:38	
Selenium	ug/L	ND	10.0	02/26/14 20:38	
Silver	ug/L	ND	10.0	02/26/14 20:38	
Thallium	ug/L	ND	5.5	02/26/14 20:38	
Tin	ug/L	ND	100	02/26/14 20:38	
Vanadium	ug/L	ND	25.0	02/26/14 20:38	
Zinc	ug/L	ND	10.0	02/26/14 20:38	

LABORATORY CONTROL SAMPLE: 1141159

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	478	96	80-120	
Arsenic	ug/L	500	449	90	80-120	
Barium	ug/L	500	476	95	80-120	
Beryllium	ug/L	500	445	89	80-120	
Cadmium	ug/L	500	474	95	80-120	
Chromium	ug/L	500	447	89	80-120	
Cobalt	ug/L	500	457	91	80-120	
Copper	ug/L	500	451	90	80-120	
Lead	ug/L	500	460	92	80-120	
Nickel	ug/L	500	471	94	80-120	
Selenium	ug/L	500	461	92	80-120	
Silver	ug/L	250	228	91	80-120	
Thallium	ug/L	500	448	90	80-120	
Tin	ug/L	500	467	93	80-120	
Vanadium	ug/L	500	439	88	80-120	
Zinc	ug/L	500	444	89	80-120	

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QUALITY CONTROL DATA

Project: WAYNE MSWLF BLANKS
Pace Project No.: 92189963

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1141160 1141161

Parameter	Units	92189711003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	ND	500	500	462	488	91	97	75-125	5	25	
Arsenic	ug/L	ND	500	500	441	461	88	92	75-125	4	25	
Barium	ug/L	59.4J	500	500	517	544	91	97	75-125	5	25	
Beryllium	ug/L	ND	500	500	436	459	87	92	75-125	5	25	
Cadmium	ug/L	ND	500	500	457	481	91	96	75-125	5	25	
Chromium	ug/L	ND	500	500	431	457	86	91	75-125	6	25	
Cobalt	ug/L	ND	500	500	435	458	87	92	75-125	5	25	
Copper	ug/L	ND	500	500	434	460	87	92	75-125	6	25	
Lead	ug/L	ND	500	500	432	454	86	91	75-125	5	25	
Nickel	ug/L	ND	500	500	447	471	89	94	75-125	5	25	
Selenium	ug/L	ND	500	500	447	468	89	94	75-125	5	25	
Silver	ug/L	ND	250	250	219	229	88	92	75-125	5	25	
Thallium	ug/L	ND	500	500	414	435	82	87	75-125	5	25	
Tin	ug/L	ND	500	500	447	470	89	94	75-125	5	25	
Vanadium	ug/L	ND	500	500	432	457	86	91	75-125	6	25	
Zinc	ug/L	ND	500	500	433	456	86	90	75-125	5	25	

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QUALITY CONTROL DATA

Project: WAYNE MSWLF BLANKS
Pace Project No.: 92189963

QC Batch: MSV/25835 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 92189963001, 92189963002, 92189963003

METHOD BLANK: 1140079 Matrix: Water
Associated Lab Samples: 92189963001, 92189963002, 92189963003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	02/19/14 11:06	
1,1,1-Trichloroethane	ug/L	ND	1.0	02/19/14 11:06	
1,1,2,2-Tetrachloroethane	ug/L	ND	3.0	02/19/14 11:06	
1,1,2-Trichloroethane	ug/L	ND	1.0	02/19/14 11:06	
1,1-Dichloroethane	ug/L	ND	5.0	02/19/14 11:06	
1,1-Dichloroethene	ug/L	ND	5.0	02/19/14 11:06	
1,1-Dichloropropene	ug/L	ND	5.0	02/19/14 11:06	
1,2,3-Trichloropropane	ug/L	ND	1.0	02/19/14 11:06	
1,2,4-Trichlorobenzene	ug/L	ND	10.0	02/19/14 11:06	
1,2-Dibromo-3-chloropropane	ug/L	ND	13.0	02/19/14 11:06	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	02/19/14 11:06	
1,2-Dichlorobenzene	ug/L	ND	5.0	02/19/14 11:06	
1,2-Dichloroethane	ug/L	ND	1.0	02/19/14 11:06	
1,2-Dichloropropane	ug/L	ND	1.0	02/19/14 11:06	
1,3-Dichlorobenzene	ug/L	ND	5.0	02/19/14 11:06	
1,3-Dichloropropane	ug/L	ND	1.0	02/19/14 11:06	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/19/14 11:06	
2,2-Dichloropropane	ug/L	ND	15.0	02/19/14 11:06	
2-Butanone (MEK)	ug/L	ND	100	02/19/14 11:06	
2-Hexanone	ug/L	ND	50.0	02/19/14 11:06	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	02/19/14 11:06	
Acetone	ug/L	ND	100	02/19/14 11:06	
Acetonitrile	ug/L	ND	55.0	02/19/14 11:06	
Acrolein	ug/L	ND	53.0	02/19/14 11:06	
Acrylonitrile	ug/L	ND	200	02/19/14 11:06	
Allyl chloride	ug/L	ND	10.0	02/19/14 11:06	
Benzene	ug/L	ND	1.0	02/19/14 11:06	
Bromochloromethane	ug/L	ND	3.0	02/19/14 11:06	
Bromodichloromethane	ug/L	ND	1.0	02/19/14 11:06	
Bromoform	ug/L	ND	3.0	02/19/14 11:06	
Bromomethane	ug/L	ND	10.0	02/19/14 11:06	
Carbon disulfide	ug/L	ND	100	02/19/14 11:06	
Carbon tetrachloride	ug/L	ND	1.0	02/19/14 11:06	
Chlorobenzene	ug/L	ND	3.0	02/19/14 11:06	
Chloroethane	ug/L	ND	10.0	02/19/14 11:06	
Chloroform	ug/L	ND	5.0	02/19/14 11:06	
Chloromethane	ug/L	ND	1.0	02/19/14 11:06	
Chloroprene	ug/L	ND	20.0	02/19/14 11:06	
cis-1,2-Dichloroethene	ug/L	ND	5.0	02/19/14 11:06	
cis-1,3-Dichloropropene	ug/L	ND	1.0	02/19/14 11:06	
Dibromochloromethane	ug/L	ND	3.0	02/19/14 11:06	
Dibromomethane	ug/L	ND	10.0	02/19/14 11:06	
Dichlorodifluoromethane	ug/L	ND	5.0	02/19/14 11:06	

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QUALITY CONTROL DATA

Project: WAYNE MSWLF BLANKS
Pace Project No.: 92189963

METHOD BLANK: 1140079 Matrix: Water
Associated Lab Samples: 92189963001, 92189963002, 92189963003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethyl methacrylate	ug/L	ND	10.0	02/19/14 11:06	
Ethylbenzene	ug/L	ND	1.0	02/19/14 11:06	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	02/19/14 11:06	
Iodomethane	ug/L	ND	10.0	02/19/14 11:06	
Isobutanol	ug/L	ND	100	02/19/14 11:06	
Methacrylonitrile	ug/L	ND	100	02/19/14 11:06	
Methyl methacrylate	ug/L	ND	30.0	02/19/14 11:06	
Methylene Chloride	ug/L	ND	1.0	02/19/14 11:06	
Naphthalene	ug/L	ND	10.0	02/19/14 11:06	
Propionitrile	ug/L	ND	150	02/19/14 11:06	
Styrene	ug/L	ND	1.0	02/19/14 11:06	
Tetrachloroethene	ug/L	ND	1.0	02/19/14 11:06	
Toluene	ug/L	ND	1.0	02/19/14 11:06	
trans-1,2-Dichloroethene	ug/L	ND	5.0	02/19/14 11:06	
trans-1,3-Dichloropropene	ug/L	ND	1.0	02/19/14 11:06	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	02/19/14 11:06	
Trichloroethene	ug/L	ND	1.0	02/19/14 11:06	
Trichlorofluoromethane	ug/L	ND	1.0	02/19/14 11:06	
Vinyl acetate	ug/L	ND	50.0	02/19/14 11:06	
Vinyl chloride	ug/L	ND	1.0	02/19/14 11:06	
Xylene (Total)	ug/L	ND	5.0	02/19/14 11:06	
1,2-Dichloroethane-d4 (S)	%	94	70-130	02/19/14 11:06	
4-Bromofluorobenzene (S)	%	98	70-130	02/19/14 11:06	
Toluene-d8 (S)	%	97	70-130	02/19/14 11:06	

LABORATORY CONTROL SAMPLE: 1140080

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.0	100	70-130	
1,1,1-Trichloroethane	ug/L	20	19.8	99	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.8	99	70-130	
1,1,2-Trichloroethane	ug/L	20	21.0	105	70-130	
1,1-Dichloroethane	ug/L	20	19.4	97	70-130	
1,1-Dichloroethene	ug/L	20	19.9	100	70-132	
1,1-Dichloropropene	ug/L	20	19.3	96	70-130	
1,2,3-Trichloropropane	ug/L	20	19.7	99	70-130	
1,2,4-Trichlorobenzene	ug/L	20	17.0	85	70-134	
1,2-Dibromo-3-chloropropane	ug/L	20	17.9	89	70-130	
1,2-Dibromoethane (EDB)	ug/L	20	21.0	105	70-130	
1,2-Dichlorobenzene	ug/L	20	19.6	98	70-130	
1,2-Dichloroethane	ug/L	20	19.7	99	70-130	
1,2-Dichloropropane	ug/L	20	20.3	102	70-130	
1,3-Dichlorobenzene	ug/L	20	19.2	96	70-130	
1,3-Dichloropropane	ug/L	20	20.4	102	70-130	
1,4-Dichlorobenzene	ug/L	20	19.5	97	70-130	

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QUALITY CONTROL DATA

Project: WAYNE MSWLF BLANKS
Pace Project No.: 92189963

LABORATORY CONTROL SAMPLE: 1140080

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	20	19.2	96	58-145	
2-Butanone (MEK)	ug/L	40	37.8J	95	70-145	
2-Hexanone	ug/L	40	42.7J	107	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	40	39.2J	98	70-140	
Acetone	ug/L	40	37.1J	93	50-175	
Acetonitrile	ug/L	200	364	182	70-130	L0
Acrolein	ug/L	100	118	118	70-130	
Acrylonitrile	ug/L	100	97.4J	97	70-143	
Allyl chloride	ug/L	20	23.0	115	70-130	
Benzene	ug/L	20	20.5	102	70-130	
Bromochloromethane	ug/L	20	20.2	101	70-130	
Bromodichloromethane	ug/L	20	20.6	103	70-130	
Bromoform	ug/L	20	19.2	96	70-130	
Bromomethane	ug/L	20	12.6	63	54-130	
Carbon disulfide	ug/L	20	21.9J	109	70-131	
Carbon tetrachloride	ug/L	20	20.3	102	70-132	
Chlorobenzene	ug/L	20	20.0	100	70-130	
Chloroethane	ug/L	20	13.0	65	64-134	
Chloroform	ug/L	20	20.0	100	70-130	
Chloromethane	ug/L	20	15.8	79	64-130	
Chloroprene	ug/L	20	19.4J	97	70-130	
cis-1,2-Dichloroethene	ug/L	20	18.7	94	70-131	
cis-1,3-Dichloropropene	ug/L	20	20.5	102	70-130	
Dibromochloromethane	ug/L	20	20.2	101	70-130	
Dibromomethane	ug/L	20	20.8	104	70-131	
Dichlorodifluoromethane	ug/L	20	16.2	81	56-130	
Ethyl methacrylate	ug/L	20	19.5	98	70-130	
Ethylbenzene	ug/L	20	20.0	100	70-130	
Hexachloro-1,3-butadiene	ug/L	20	16.2	81	70-130	
Iodomethane	ug/L	40	20.6	51	49-180	
Isobutanol	ug/L	400	459	115	70-130	
Methacrylonitrile	ug/L	200	200	100	70-130	
Methyl methacrylate	ug/L	20	19.9J	99	70-130	
Methylene Chloride	ug/L	20	19.0	95	63-130	
Naphthalene	ug/L	20	16.3	82	70-138	
Propionitrile	ug/L	200	227	114	70-130	
Styrene	ug/L	20	21.1	106	70-130	
Tetrachloroethene	ug/L	20	20.0	100	70-130	
Toluene	ug/L	20	19.8	99	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.8	94	70-130	
trans-1,3-Dichloropropene	ug/L	20	20.6	103	70-132	
trans-1,4-Dichloro-2-butene	ug/L	20	20.6J	103	70-141	
Trichloroethene	ug/L	20	19.2	96	70-130	
Trichlorofluoromethane	ug/L	20	18.1	90	62-133	
Vinyl acetate	ug/L	40	40.3J	101	66-157	
Vinyl chloride	ug/L	20	16.5	82	69-130	
Xylene (Total)	ug/L	60	61.2	102	70-130	
1,2-Dichloroethane-d4 (S)	%			97	70-130	

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

QUALITY CONTROL DATA

Project: WAYNE MSWLF BLANKS
Pace Project No.: 92189963

LABORATORY CONTROL SAMPLE: 1140080

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1141490 1141491

Parameter	Units	92189694014 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	56.0	56.0	112	112	70-166	0	30	
Benzene	ug/L	ND	50	50	58.4	58.3	117	117	70-148	0	30	
Chlorobenzene	ug/L	ND	50	50	54.3	55.1	109	110	70-146	1	30	
Toluene	ug/L	ND	50	50	54.4	53.3	109	107	70-155	2	30	
Trichloroethene	ug/L	ND	50	50	59.4	59.1	119	118	69-151	0	30	
1,2-Dichloroethane-d4 (S)	%						87	88	70-130			
4-Bromofluorobenzene (S)	%						99	98	70-130			
Toluene-d8 (S)	%						97	96	70-130			

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QUALITY CONTROL DATA

Project: WAYNE MSWLF BLANKS
Pace Project No.: 92189963

QC Batch: WETA/18132
QC Batch Method: SM 4500-CN-E
Analysis Method: SM 4500-CN-E
Analysis Description: 4500CNE Cyanide, Total
Associated Lab Samples: 92189963001

METHOD BLANK: 1143252
Matrix: Water
Associated Lab Samples: 92189963001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	ug/L	ND	10.0	02/23/14 12:21	

LABORATORY CONTROL SAMPLE: 1143253

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	100	111	111	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1143254 1143255

Parameter	Units	92190080001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	ug/L	ND	100	100	97.2	103	93	99	75-125	6	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1143256 1143257

Parameter	Units	92190018002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	ug/L	0.035 mg/L	100	100	134	137	100	102	75-125	2	20	

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QUALIFIERS

Project: WAYNE MSWLF BLANKS
Pace Project No.: 92189963

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

L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WAYNE MSWLF BLANKS
Pace Project No.: 92189963

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92189963001	**EB**	EPA 3010	MPRP/15268	EPA 6010	ICP/13855
92189963002	**FB**	EPA 3010	MPRP/15268	EPA 6010	ICP/13855
92189963001	**EB**	EPA 7470	MERP/6195	EPA 7470	MERC/5979
92189963002	**FB**	EPA 7470	MERP/6195	EPA 7470	MERC/5979
92189963001	**EB**	EPA 8260	MSV/25835		
92189963002	**FB**	EPA 8260	MSV/25835		
92189963003	**TB**	EPA 8260	MSV/25835		
92189963001	**EB**	SM 4500-CN-E	WETA/18132		

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Pace Analytical	Document Name: Sample Condition Upon Receipt (SCUR)	Page 1 of 2
	Document Number: F-CHR-CS-03-rev.13	Issuing Authority: Pace Huntersville Quality Office

Client Name: Municipal

Courier: ☐ 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_____

Thermometer Used: IR Gun T1102 (T1301) **Type of Ice:** (Wet) Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor **T1102**: No Correction **T1301**: No Correction

Corrected Cooler Temp.: 2.7 °C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Optional
Proj. Due Date:
Proj. Name:

Date and Initials of person examining contents: 2/18/14

		Comments:
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:_____	☐Yes ☑No ☐N/A	12. no date / time on bottle
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	
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: JG Date: 2/18/14

SRF Review: JG Date: 2/19/14

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)

WO# : 92189963

92189963

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:	Wayne MSWLF Blanks	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	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N			8260 App II VOCs N	Total Metals-App II N		Cyanide N								
1	EB	WT	G			2/14/2014	8:05		5			1	3								X	X		X								001
2	FB	WT	G			2/14/2014	8:12		4			1	3								X	X										002
3	TB	WT	G		pace	filled			2				2								X											003
4																																
5																																
6																																
7																																
8																																
9																																
10																																
11																																
12																																

92189963

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	J. Pfohl/MESCO	2/18/2014	12:35							
	Left @ Iredell Steele									
				[illegible]	2/18/14	13:30	2.4	yes	—	yes
							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: 2/18/2014

Appendix B
Field Sampling Parameter Data Sheet(s)

Sampling Data Sheet

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

Project: Wayne Co. Subtitle D Lined MSWLF, Dudley

Samplers: J. Pfohl

Monitoring Point	Sample Date	Sample Time	Sampling Parameters: Depth to Water (BTOP) Static	Lab Parameters to be analyzed for	Volume Purged (Gal)	Sample Type	Goes Dry During Purge	Notes	Total Depth	Water Quality Parameters: ~~DO (mg/L)~~	ORP	pH	Temp. ©	Specific Cond. (us/cm	TDS (mg/L)	Turbidity
MW-1	2/11/14	9:30	16.04	DM	3	DB	N almost		22.5		303	4.93	16.4	20	10	MT
MW-2	2/11/14	3:40	9.70	DM	11	~~P&~~DB	N	PB - sediment on pad removed by Co.	20		19	5.85	14.9	410	200	ST
MW-3	2/11/14	3:00	old 5.02 new 7.65	DM	10	DB	N	PB & case/Pad Replaced +2.63' new stick-up	20		87	5.31	14.8	20	10	ST
MW-4	2/11/14	1:00	16.04	DM	6	DB	Y	PB	25		203	4.82	16.4	10	0	C
MW-5	2/11/14	1:35	16.06	DM	9	DB	Y	Not Painted	23		139	5.01	15.6	0	0	C
MW-6	2/11/14	2:00	16.53	DM	8	DB	N	Not painted yet	25		203	4.81	15.9	0	0	C
MW-7	2/11/14	2:35	5.92	DM	7	DB	N	Not Painted, Tag needs screwed on Adjacent Basin Disturbed	20		8	6.03	15.4	200	90	ST
MW-8	2/14/14	10:35	7.18	DM	8	DB	N	Not Painted yet, surface runoff Next to well	20		209	4.85	15.2	20	10	C
MW-9	2/11/14	11:40	11.29	DM	10	~~P&~~DB	Y	PB	23		301	4.58	15.3	0	0	ST
MW-10	2/11/14	11:00	12.74	DM	9	~~P&~~DB	Y	PB	23		301	5.21	16.1	0	0	ST
MW-11	2/14/14	11:05	3.07	DM	5	DB	N Almost	Not painted yet	15.49		301	5.14	15.1	0	0	ST
MW-12	2/14/14	1:35	2.45	DM	3.5	DB	Y Barely	Not Painted yet, Drainage Next.	16.45		225	4.75	14.4	10	0	ST
MW-13	2/14/14	12:00	8.12	DM	5	DB	N	Previously painted yellow Not Blue	15.85		198	4.81	14.8	40	20	C
MW-14	2/14/14	2:00	5.89	DM	7	DB	N	Not Painted	21.34		281	5.53	15.6	80	30	ST
MW-15	2/11/14	10:05	2.46	DM	5	DB	N	Lock Replaced Not Painted	16.17		287	5.41	15.3	70	30	C
MW-16R	2/14/14	3:10	14.75	DM	8	~~P&~~DB	N	~~Promise~~ 2nd Event Not Painted Smells!	20.28		297	5.23	16.1	10	0	CT
SW-4	2/10/14	5:30	—	DM	-	Dip	-	Downstream	-		201	6.81	9.9	60	20	C
SW-5	2/10/14	5:05	—	DM	-	Dip	-	Upstream	-		199	6.65	10.1	60	20	C
P3-18D	NS		Artesian!	—	-	-	-	Lock Replaced Not Painted								
LE-1	2/11/14	4:05	—					Leachate composite equal proportions from 3 pipes								

Comments

P3-17 - 6.78 P3-15S - 9.32
P-5 - 19.47 P3-15D - 9.72

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

PB= Painted Blue by County since 1/11/14, Locks replaced on all wells

Sampling Data Sheet

Municipal Services Engineering Company
Garner, NC Boone, NC

Project: Wayne Co MSWLF, Dudley- Shared Surface Waters

Samplers: J. Pfohl Page_____of_____

Monitoring Point	Sample Date	Sample Time	Sampling Parameters					Water Quality Parameters						
			Lab Parameters to be analyzed for	Sample Type	Visual Gage Height	Visual Flow Rate	Notes	DO (mg/L)	ORP	pH	Temp. ©	Specific Cond. (us/cm	TDS (mg/L)	Turbidity
SW-1	2/10/14	4:25	DM	Dip	Low	Low	Downstream of SW-2(Closed) & SW-3 (Shared)	6.3	203	6.63	10.1	230	110	c
SW-2	2/10/14	4:15	DM	Dip	Low	Low	Lined near access rd (Mid stream)	6.4	201	6.91	10.7	80	30	c
SW-3	NS	Dry	DM				Upstream-furthest East historically Closed							
SW-3	2/10/14	4:50	DM	Dip	Low	Low	Shared Downstream of SW-2 & upstream of SW-1	6.3	199	6.89	10.5	60	20	c

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

NR=No Reading Attempted, NS=No Sample Obtained