Semi-Annual Water Quality Monitoring and Statistical Analysis Report

Prepared for

Wayne County Active C&D and Closed MSWLF
Dudley, North Carolina

February 2011

Permit Number: 96-01
MESCO Project Number: G10016.0

Submittal Date: May 17, 2011

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

Municipal Engineering Services Company, P.A.
Garner, Boone and Morehead City, 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 Active C&D and Closed MSWLF	460-B South Landfill Road Dudley, NC 28333	96-01	.1600	February 8 & 9, 2011

Environmental Status: (Check all that apply)

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

Type of data submitted: (Check all that apply)

☒ Groundwater monitoring data from monitoring wells
☐ Groundwater monitoring data from private water supply wells
☐ Leachate monitoring data
☒ Surface water monitoring data
☐ Methane gas monitoring data
☒ Corrective action data (specify) MNA Data for MW-1,MW-2 & MW-8
☐ Other(specify)

Notification attached?

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

Certification

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

Madeline German, PG — Professional Geologist — (919) 772-5393

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

Signature — Date: 5/17/2011

Affix NC Licensed Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 2275 GEOLOGIST MADELINE GERMAN 5/17/2011

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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OPERATION/CONSTRUCTION MANAGERS

Municipal Services

CIVIL/SANITARY ENGINEERS

Engineering Company, P.A.

May 17, 2011

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

Re: Semi-Annual Water Quality Monitoring and Statistical Analysis Report
Wayne County Active C&D and Closed MSWLF (Dudley)
Permit No. 96-01
MESCO Project No. G10016.0

Dear Ms. Drummond:

Introduction

The Wayne County landfill (permit #96-01) is located at 460 S Landfill Road (SR 1129), Dudley, Wayne County, North Carolina. Prior to operating as a C&D landfill the site operated as a Municipal Solid Waste (MSW) unlined sanitary landfill that consisted of two units. The first unit (Unit 1) was closed prior to October 1991 with a 24 inch final soil cover. The second unit (Unit 2) was closed with a cohesive cap of 18 inches of soil with a permeability of 1 x 10-5 cm/sec, and 18 inches of erosive layer prior to December 31, 1998 in accordance with the T*ransition Plan*. The C&D landfill is constructed and operating on top of the Unit 1 MSW landfill. The separate active Subtitle D Lined MSWLF (permit #96-06), located adjacent to the C&D landfill across the unnamed tributary of Edward's Branch, was monitored in conjunction with this site but reported separately. A topographical map showing the location of the site is included as **Plate 1.**

The ground and surface waters at the landfill have been monitored semi-annually since 1991. As a condition of the water quality monitoring program semi-annual compliance reports are required to be submitted to the NC Solid Waste Section (SWS). Municipal Engineering Services Company, P.A. (MESCO) of Garner NC performed this sampling event on February 8 & 9, 2011 in accordance with the semi-annual monitoring schedule prescribed by the SWS rules/regulations.

As specified within 15A NCAC 13B.1632(j) and the SWS Environmental Monitoring Report Form, this report contains sampling procedures, field and laboratory results, groundwater and surface water characterization, and findings. Detections compared to their respective standards tables, a hydrogeologic properties table, a monitoring network field observations table, field parameter data results, potentiometric map, statistical analysis, 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 828, Morehead City, NC 28557 (252) 726-9481 PO Box 349, Boone, North Carolina 28607 (828) 262-1767

Sampling Procedure

MESCO performed this sampling event utilizing portable monitoring methodology in accordance with the Sampling & Analysis Plan (SAP) contained in the *Corrective Action Plan* approved October 23, 2009. Water samples were collected from monitoring locations designated in the SAP with the exception of SW-2 and SW-3, which were dry. The site specific SAP directs corrective action monitoring for a subset of three monitoring wells (MW-1, MW-2 and MW-8) since MW-2 and MW-8 have previously yielded samples containing VOCs. Water quality monitoring was performed on eight wells (MW-3, MW-4, MW-5, MW-6, MW-7, MW-9, MW-10 and MW-11) and one surface water point (SW-1). Quality control measures implemented during this event included quantification of an equipment blank (EB), field blank (FB) and travel blank (TB). A supplemental surface water sample (SW-ByMW-2) was collected from the western tributary of Edward's Branch directly downgradient of MW-2. Data from two surface water locations from the Subtitle D Lined SAP are presented because this local discharge feature is shared by both permits, they are named SW-2 (shared) and SW-3 (shared) in this report. Monitoring locations are depicted on the potentiometric map, included as **Plate 2**.

Monitoring location function and integrity was visually evaluated and inspection documentation is provided in **Table 4**. The depth to water in each well was electronically gaged prior to purging to quantify the static water level elevation. Low-flow pumping methodology or bailing was utilized to adequately purge the wells to a minimum of three times the volume of standing water in the well or until dry. During purging, field parameters dissolved oxygen (DO), oxidation-reduction potential (ORP), total dissolved solids (TDS), dissolved carbon dioxide, and turbidity were recorded in addition to the required pH, specific conductance and temperature. The samples were then placed into laboratory-prepared, pre-preserved containers via a new disposable polyethylene bailer. Samples were collected/separated based on likelihood of potential cross-contamination, kept on ice, and transported to a NC-certified laboratory under proper C-O-C protocol within the specified hold times for each analysis.

Field Parameter Data

A field parameter data summary is presented in **Table 5** and the field sampling data sheets are enclosed in **Appendix B**.

Laboratory Results

Pace Analytical Laboratory (PACE) of Huntersville and Asheville, NC performed the laboratory analysis on the collected groundwater and surface water samples for the Appendix I plus the Appendix II exclusive (defined in this report as not also listed in Appendix I) constituents detected during the August 2010 event. Additionally, the corrective action monitoring wells were analyzed for the SWS recommended monitored natural attenuation (MNA) parameters. Microseeps Inc. of Pittburgh, PA performed the MNA parameter analysis for volatile fatty acids, methane/ethene/ethane and dissolved hydrogen. MNA analyses results are discussed in the *Corrective Action Evaluation Report* (CAER) submitted in May 2011. 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 Appendix I constituents detected in groundwater and surface water samples above the current SWSL, Groundwater Protection Standards (GWP), North Carolina Groundwater Standards (2L) or the applicable Class C North Carolina Surface Water Standards (2B). **Table 3** summarizes Appendix II exclusive constituents detected above the MDL. Laboratory results and C-O-Cs are presented in **Appendix B**.

Quality Control Samples

Total zinc was detected in a concentration over the SWSL in the quality control blank EB. Although this blank qualified detection was identified, it appears the data set's validity was not effected by false positives or high bias attributed to field and/or laboratory artifact contamination.

Groundwater Samples

Total unfiltered metals were detected in concentrations exceeding their respective 2L Standard in samples from MW-2 (arsenic) and MW-5 (cadmium). The VOC benzene was detected above the 2L Standard in MW-2.

Surface water Samples

Total silver was detected in a low, non-quantifiable concentration exceeding the 2B Standard in SW-2 (shared) and SW-3 (shared). VOCs, were not detected in quantifiable concentrations in surface water samples.

Statistical Analysis

Statistical analysis was performed on constituents detected in quantifiable concentrations (above SWSL) in the groundwater samples. The statistical comparison between baseline and current groundwater analytical data is consistent with US EPA guidance documents and meets or exceeds the performance criteria specified in 15A NCAC 13B.1362. An overview of the statistical analysis methodologies, summary tables, graphs, and worksheets are presented in **Appendix A**.

Total metal types and concentrations are generally consistent with historical results. Total metals detected during this event were found in concentrations within their respective historically identified range. The inter-well, intrawell, and qualitative trend over time analysis indicate that arsenic in MW-2 exhibited a statistically significant increase (SSI). Concentrations of cobalt as detected in samples from MW-5 were found to have increased per interwell and intrawell analysis but results of trend analysis calculations were inconclusive and a SSI could not be verified.

Due to the lack of historical VOC detections in the background well, the detection of any quantifiable VOC in a downgradient well is considered a statistically significant number of detections per Poisson Prediction Interval analysis. Statistically significant VOCs were found in samples taken from MW-2, MW-8 and MW-11. VOC(s) detected during this event have previously been reported at higher concentrations at their respective location(s) with the exception of chloromethane in MW-11. A qualitative evaluation of VOC concentrations over time indicate that none of the VOC concentrations exhibited an increasing trend.

Groundwater and Surface Water Characterization

A single-day potentiometric map for the uppermost aquifer created from groundwater elevation data collected during this event, is included as **Plate 2.** Groundwater flow rates and directions were calculated based on collected data and are included in **Table 3**. Groundwater generally generally flows southwesterly towards Edward's Branch with an average rate of 82 feet/year ranging from approximately 2 feet/year (MW-7) to 476 feet/year (MW-3). The calculated flow directions and gradients are consistent with historical observations. Streams located within the facility boundaries were visually observed at normal seasonal volume and flow.

Findings

The laboratory results and statistical analysis indicate that the groundwater quality has been compromised in a small portion of the uppermost aquifer south of the landfill, which is monitored by MW-2. The groundwater sample collected from MW-2 contained arsenic concentrations above its 2L Standard that exhibited a SSI, however the origin may be a product of natural deposit erosion. According to NCDENR geochemical data reviewed on line, arsenic may occur naturally at elevated levels in this portion of the state. MW-2 also contained aromatic VOCs, including benzene in a concentration above its 2L Standard. However, benzene concentrations are not exhibiting an increasing trend in sample MW-2 per the statistical analysis results. Current findings support prior assertions that the impact to the surficial groundwater south of the closed MSWLF as monitored by MW-2 appears to be isolated within the compliance boundary. The horizontal extent of impact downgradient of MW-2 appears to not have migrated to the adjacent local discharge feature as evidenced by the lack of detections in SW-ByMW-2 and SW-1.

Groundwater quality monitored by MW-8, located cross gradient of Unit 1, continues to improve as no constituent has been detected in a concentration above the respective 2L Standard since August 2009. MW-9 and MW-10, installed to delineate the impact beyond MW-8, continues to lack detections.

None of the Appendix II exclusive target analytes were detected at levels above their respective established 2L Standard during this sampling event.

The low, non quantifiable total silver concentrations detected in SW-2 (shared) and SW-3 (shared) were attributed to natural geochemistry and not a leachate release. Silver was not detected in SW-1, located further downstream of SW-2 (shared) and SW-3 (shared).

Corrective action to remediate the VOCs detected in groundwater is ongoing with more detailed information presented in the CAER.

Closing

Water quality monitoring will continue at this facility. The next sampling event is tentatively scheduled for August 2011. If you have questions or comments regarding this report, please contact us by phone at (919) 772-5393 or by email at jpfohl@mesco.com or mgerman@mesco.com.

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

Jonathan Pfohl
Environmental Specialist

Madeline German, PG
Professional Geologist

NORTH CAROLINA LICENSED SEAL 2275 5/17/2011 GEOLOGIST MADELINE GERMAN

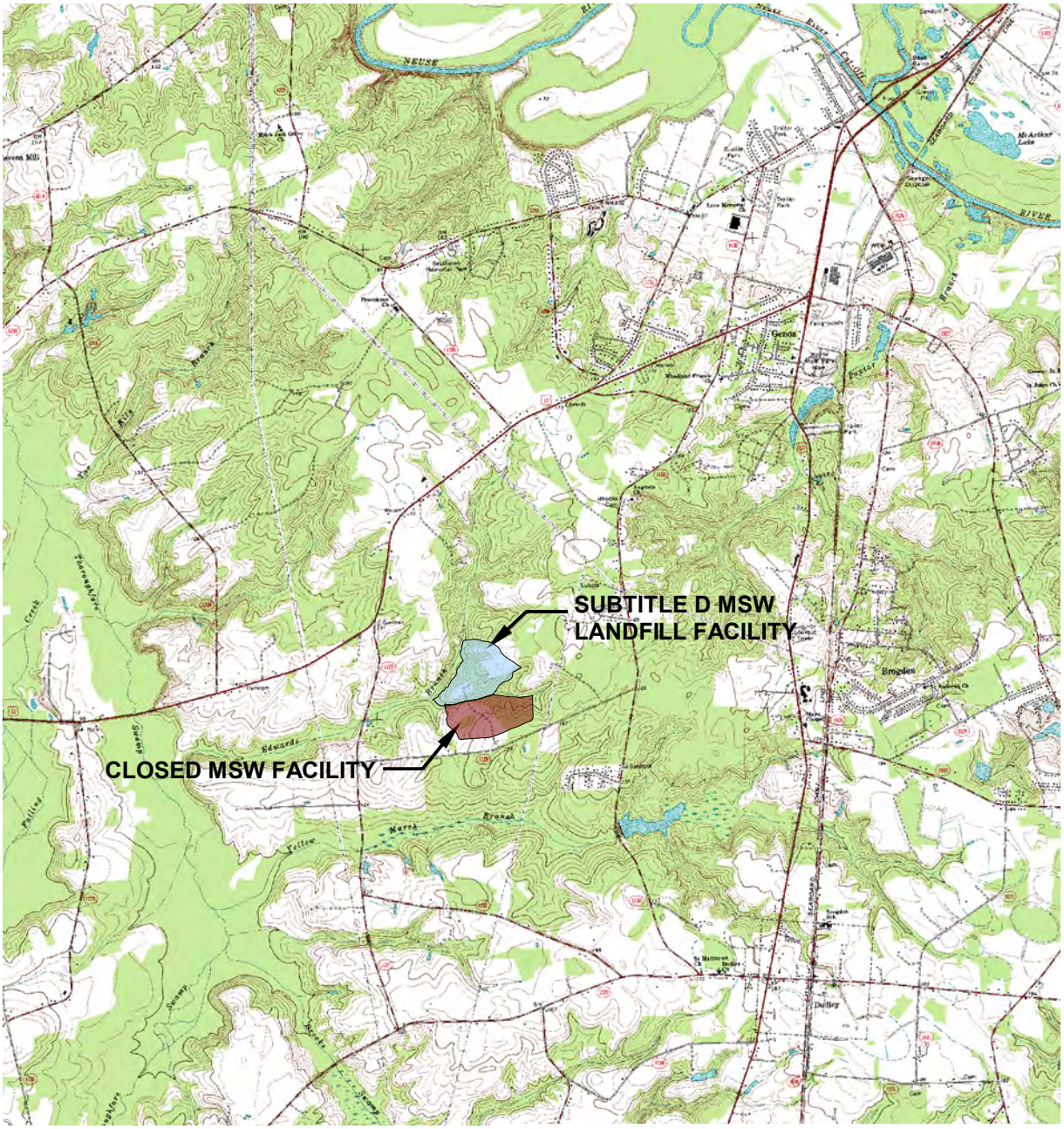
Enclosures
cc: Mr. Tim Rogers
Wayne County

Figures

PLATE 1

Topographic Map with Site Location

Wayne County North Carolina (Dudley)



ROAD CLASSIFICATION

Primary highway, hard surface

Light-duty road, hard or improved surface

Secondary highway, hard surface

Unimproved road

Interstate Route

U. S. Route

State Route

1 0 1 MILE

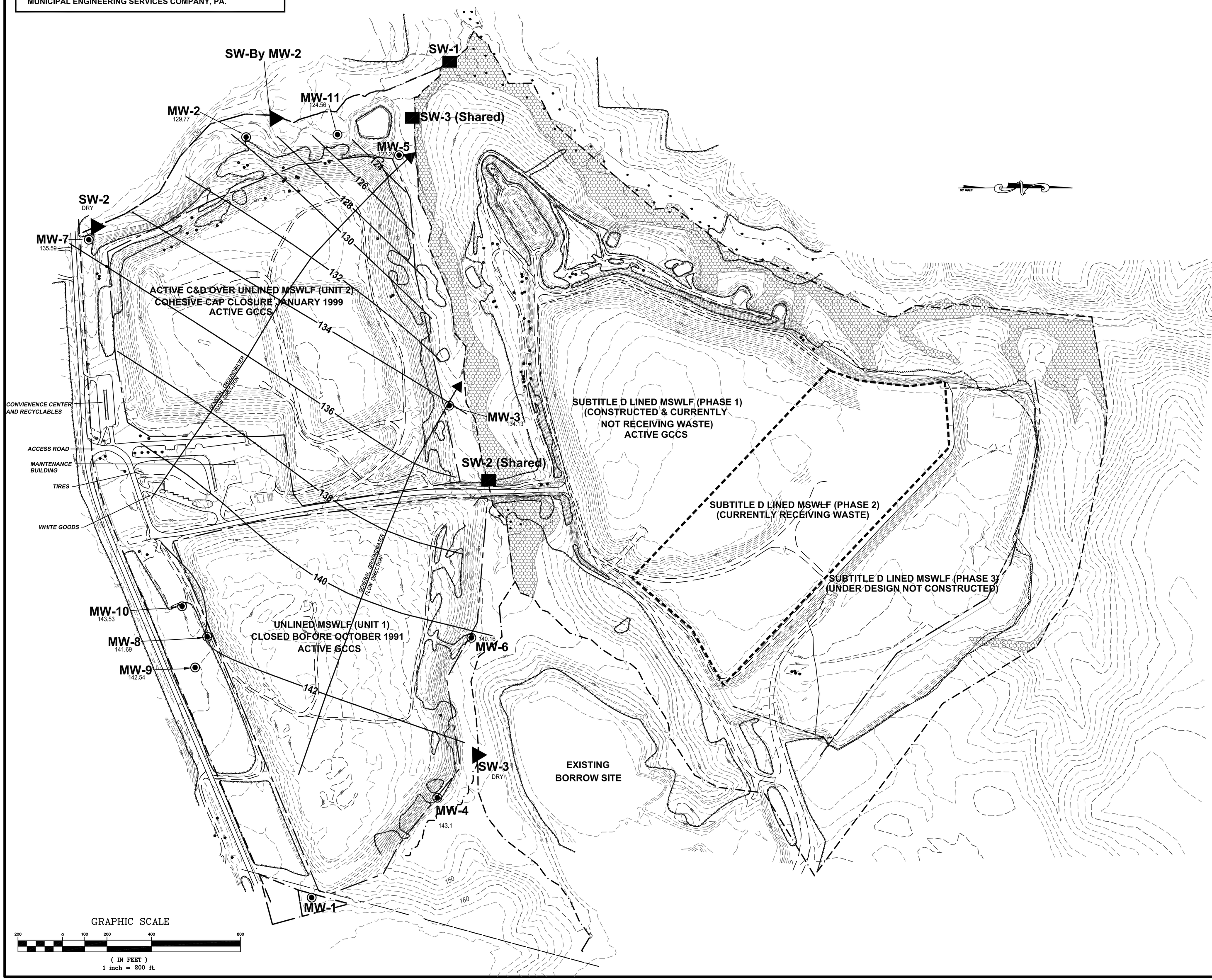
N

Municipal Services Engineering Company

Garner, NC Boone, NC

Municipal Engineering Services Company, PA

TOPOGRAPHY IS FROM AERIAL PHOTOGRAPHY FLOWN AND A TOP0GRAPHIC MAP WAS PROVIDED BY DARREL S. MILLER, PLS ON 8/17/2007 AND SUPPLEMENTED WITH FIELD SURVEYS BY MUNICIPAL ENGINEERING SERVICES COMPANY, PA.



LEGEND

- EXISTING CONTOURS
- PROPERTY LINE
- EXISITING UNPAVED ROAD
- EXISTING CREEK, STREAM, ETC.
- EXISTING DIVERSION DITCHES
- CLOSED MSWLF ESTIMATED EXTENT OF WASTE
- 300' BUFFER ZONE
- LINED MSWLF PHASE LIMITS
- EXISTING CHAINLINK FENCE
- TREE LINE (AERIAL MAPPING)
- TREE LINE (SURVEYED)
- TREES/SHRUBS
- WETLANDS
- MONITORING WELL
- SURFACE WATER MONITOIRNG POINT (LINED MSWLF)
- SURFACE WATER MONITOIRNG POINT (CLOSED MSWLF)
- 80 GROUNDWATER CONTOUR
- GENERAL GROUNDWATER FLOW DIRECTION

Wayne County Active C&D and Closed MSWLF (Dudley)

February 9, 2011

WELL #	TOP OF PIPE ELEVATION (FT AMSL)	DEPTH TO WATER (FT BTOC)	WATER ELEVATION (FT AMSL)
MW-1	-	19.64*	-
MW-2	134.52	4.75	129.77
MW-3	134.81	0.68	134.13
MW-4	150.20	7.10	143.10
MW-5	124.78	2.57	122.21
MW-6	145.53	5.37	140.16
MW-7	143.59	8.00	135.59
MW-8	161.88	20.19	141.69
MW-9	162.96	20.42	142.54
MW-10	162.90	19.37	143.53
MW-11	127.23	2.67	124.56

* MW-1: Needs resurvey due to damage repairs

PLATE 2

Municipal Engineering Services Company, P.A.
LICENSE NUMBER: C-0281
P.O. BOX 97 GARNER, N.C. 27529 (919) 772-5393
P.O. BOX 348 BOONE, N.C. 28607 (828) 262-1767
P.O. BOX 828 MOREHEAD CITY, N.C. 28557 (252) 726-9481

ACTIVE C&D AND CLOSED MSW LANDFILL FACILIITY (DUDLEY)
WAYNE COUNTY
NORTH CAROLINA

DATE	BY	REV.	DESCRIPTION

SINGLE DAY POTENTIOMETRIC MAP
UPPERMOST AQUIFER 02/09/11

SCALE:	1" = 200'
DATE:	5/16/11
DRWN. BY:	J. PFOHL
CHKD. BY:	M. GERMAN
PROJECT NUMBER	G10116.0
DRAWING NO.	PLATE 2
SHEET NO.	1 OF 1

Tables

Table 1
Sampling and Analysis Summary
February 8 & 9, 2011

		App. I		MNA													Field Parameter							App. II							
	Reason Not Sampled	VOCs	Total Metals	VFA	Hydrogen	Methane/Ethene/Ethane	Dissolved CO2	Alkalinity	Sulfate	Sulfide	Chloride	TOC	COD	BOD	Iron	Nitrate	Dissolved Oxygen (DO)	Oxidation Reduction Potential (ORP)	Temperature	Conductivity	Total Dissolved Solids (TDS)	pH	Turbidity	VOCs	Total Metals	Pesticides	Herbicides-Chlorinated	Polychlorinated biphenyl (PCB)	Semivolatile Organics (SVOCs)	Total Cyanide	Sulfide
		Lab EPA 8260B	Lab EPA 6000/7000	AM23G	AM20GAX	AM20GAX	Field Hach Kit	EPA 310.2	EPA 300.0	Lab SM18 4500-S D	EPA 300.0	SM 5310B	SM 5220D	SM5210B	Lab EPA 8270D	Lab EPA 9014	Field Meter	Field Meter	Field Meter	Field Meter	Field Meter	Field Meter	Field Meter	Lab EPA 8260B	Lab EPA 6000/7000	Lab EPA 8081B	Lab SW8151A	Lab EPA 8082A	Lab EPA 8270D	Lab EPA 9014	Lab SM18 4500-S D
MW-1				x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x						
MW-2				x	x	x	x	x	x	x	x	x	x	x	x	x	x	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						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	x	x	x	x	x	x	x	x	x	x	x	x	x	x								
MW-9		x															x	x	x	x	x	x									
MW-10		x															x	x	x	x	x	x									
MW-11																	x	x	x	x	x	x		x							
SW-1		x	x														x	x	x	x	x	x									
SW-2	Dry																														
SW-2 (shared)																															
SW-ByMW-2																	x	x	x	x	x	x		x							
SW-3 (shared)		x	x														x	x	x	x	x	x									
SW-3	Dry																														
EB																	x	x	x	x	x	x		x	x						
FB																	x	x	x	x	x	x		x	x						
TB																								x							

App I & II = Appendix I & II List from current 40 CFR 258

Table 2
Detections Above SWSL, GWP, 2L, or 2B (Appendix I)
February 8 & 9, 2011

Well ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [2]	SWSL [3]	2L [4]	2B [5]	GWP [6]	Exceedance	Preliminary Cause
MW-1	Zinc, total	02/08/2011	18.4	ug/L	0.4	10	1050				
MW-1	Vanadium, total	02/08/2011	8 j	ug/L	0.2	25			3.5	4.5	
MW-2	Vanadium, total	02/08/2011	5.1 j	ug/L	0.2	25			3.5	1.6	
MW-2	Zinc, total	02/08/2011	11.2	ug/L	0.4	10	1050				
MW-2	Cobalt, total	02/08/2011	30.6	ug/L	0.6	10					
MW-2	**Arsenic, total**	**02/08/2011**	**19.9**	**ug/L**	**2.7**	**10**	**10**			**9.9**	**N**
MW-2	**Benzene**	**02/08/2011**	**2.8**	**ug/L**	**0.25**	**1**	**1**			**1.8**	**L &/or LFG**
MW-2	Barium, total	02/08/2011	178	ug/L	0.2	100	700				
MW-2	Chlorobenzene	02/08/2011	23.7	ug/L	0.23	3	50				
MW-2	1,4-Dichlorobenzene	02/08/2011	4.8	ug/L	0.33	1	6				
MW-4	Barium, total	02/08/2011	118	ug/L	0.2	100	700				
MW-5	Vanadium, total	02/09/2011	59.1	ug/L	0.2	25			3.5	55.6	
MW-5	Zinc, total	02/09/2011	31.3	ug/L	0.4	10	1050				
MW-5	Beryllium, total	02/09/2011	1.4	ug/L	0.1	1					
MW-5	**Cadmium, total**	**02/09/2011**	**4.4**	**ug/L**	**0.5**	**1**	**1.75**			**2.65**	**N**
MW-5	Cobalt, total	02/09/2011	23.1	ug/L	0.6	10					
MW-6	Barium, total	02/09/2011	225	ug/L	0.2	100	700				
MW-8	1,4-Dichlorobenzene	02/08/2011	1.6	ug/L	0.33	1	6				
MW-8	Thallium	02/08/2011	3.8 j	ug/L	3	5.5			0.28	3.52	
MW-11	Chloromethane	02/09/2011	1.2	ug/L	0.11	1	2.6				
SW-1	Barium, total	02/08/2011	187	ug/L	0.2	100		200000			
SW-1	Zinc, total	02/08/2011	11.5	ug/L	0.4	10		50			
SW-2	**Silver, total**	**02/08/2011**	**0.11 j**	**ug/L**	**0.1**	**10**		**0.06**		**0.05**	**N**
SW-3	**Silver, total**	**02/08/2011**	**0.13 j**	**ug/L**	**0.1**	**10**		**0.06**		**0.07**	**N**
SW-3	Zinc, total	02/08/2011	12.9	ug/L	0.4	10		50			
SW-3	Barium, total	02/08/2011	224	ug/L	0.2	100		200000			
EB	Zinc, total	02/09/2011	32.6	ug/L	0.4	10	1050				

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

[2] MDL = Method Detection Limit

[3] SWSL = Solid Waste Section Reporting Limit

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

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

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

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

L = Leachate

LFG = Landfill Gas

N = Natural from erosion of natural deposits

BOLD = Concentration > 2L, or 2B Standard (Current as of Sampling Event)

Table 3
Detections Above MDL (Appendix II Exclusive)
February 8 & 9, 2011

Sample ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [2]	SWSL [3]	2L [4]	2B [5]	GWP [6]	Exceedance	Concentration Comparison to Previous August 2010 Event
MW-2	Cyanide	2/8/11	6 j	ug/L	5	10	70				Down
MW-2	Tin	2/8/11	3.1 j	ug/L	1.8	100	NE		NE		Up
MW-2	1,3-Dichlorobenzene	2/8/11	0.39 j	ug/L	0.24	5	170				Up
MW-2	Isobutanol	2/8/11	143	ug/L	35	100	NE		NE		Down
MW-11	Dichlorodifluoromethane	2/9/11	0.79 j	ug/L	0.21	5	1400				Up
EB	Tin	2/9/11	2.4 j	ug/L	1.8	100	NE		NE		New

[1] Table contains all detected App II exclusive constituents

[2] MDL = Method Detection Limit

[3] SWSL = Solid Waste Section Reporting Limit (Current as of Sampling Event)

[4] 2L = North Carolina 15A NCAC 2L Groundwater Quality Standard (Current as of Sampling Event)

[5] 2B = North Carolina 15 NCAC 2B Surface Water Quality Standard for this Specific Stream Classification (Current as of Sampling Event)

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

j =The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL),

NE = Not Established

BOLD = Concentration >2L, or 2B Standard (Current as of Sampling Event)

Table 4
Hydrologic Properties at Monitoring Well Locations
February 9, 2011

Monitoring Well	Hydraulic Conductivity (cm/sec)	Effective Porosity (%)	Hydraulic Gradient	Linear Velocity (ft/yr)	Flow Direction	Water Table Depth (ft)	Water Table Elev. (ft)
MW-1	5.40E-04	20	1.89298	-	-	19.64	-
MW-2	3.00E-04	20	0.00744	12	N51W	4.75	129.77
MW-3	6.40E-03	20	0.00623	206	N67W	0.68	134.13
MW-4	9.90E-04	20	0.00405	21	N70W	7.10	143.10
MW-5	3.10E-05	20	0.01773	3	N48W	2.57	122.21
MW-6	1.60E-04	20	0.00528	4	N76W	5.37	140.16
MW-7	7.30E-05	20	0.00687	3	N57W	8.00	135.59
MW-8	3.40E-04	20	0.02778	49	N04W	20.19	141.69

NOTE: Data for conductivities and effective porosity obtained from GAI Consultants' Water Sampling Report (January, 1995).
Hydrologic Gradient from groundwater elevations taken on February 9, 2011.
Linear Velocity (Q) is defined by the equation:

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

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

Min v_x: 3
Mean v_x: 42
Median v_x: 12
Max v_x: 206

Table 5
Field Observations of Monitoring Locations
February 8 & 9, 2011

Sample Location	Viable Monitoring Location	Lack of Any Evidence of Tampering	Locked	Hinge/Hasp Operational	Tagged or Labeled	Concrete Surface Pad Effective	Degree of Visual Turbidity of Collected Sample	Comments
MW-1	Yes	Yes	Yes	Yes	Yes	Yes	Clear	Tag Replaced
MW-2	Yes	Yes	Yes	Yes	Yes	Yes	Clear	
MW-3	Yes	Yes	Yes	Yes	Yes	Yes	Clear	Artesian
MW-4	Yes	Yes	Yes	Yes	Yes	Yes	Clear	
MW-5	Yes	Yes	Yes	Yes	Yes	Yes	Slight	
MW-6	Yes	Yes	Yes	Yes	Yes	Yes	Clear	
MW-7	Yes	Yes	Yes	Yes	Yes	Yes	Clear	
MW-8	Yes	Yes	Yes	Yes	Yes	Yes	Clear	
MW-9	Yes	Yes	Yes	Yes	Yes	Yes	Very	
MW-10	Yes	Yes	Yes	Yes	Yes	Yes	Very	
MW-11	Yes	Yes	Yes	Yes	Yes	Yes	Very	
SW-1	Yes	-	-	-	-	-	Clear	Shared Downstream of SW-3
SW-2	No	-	-	-	-	-	-	Dry-Upstream nearest MW-7
SW-2	Yes	-	-	-	-	-	Clear	Shared nearest lined MW-2
SW-3	Yes	-	-	-	-	-	Clear	Shared downstream of SW-2
SW-3	No	-	-	-	-	-	-	Shared Upstream nearest MW-4

Any unusual field conditions, observations, or events:

None to note.

Table 6
Summary of Field Parameter Data
February 8 & 9, 2011

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	umhos/cm	mg/L	NTU
MW-1	19.64	-	*	14.8	367	6.4	5.00	12	6	19.7
MW-2	4.75	129.77	134.52	11.5	-38	0.7	6.57	1245	623	21.3
MW-3	0.68	134.13	134.81	15.0	399	0.2	4.46	32	16	Clear
MW-4	7.10	143.10	150.20	13.3	420	2.4	4.78	80	40	Clear
MW-5	2.57	122.21	124.78	15.0	221	1.8	4.74	57	28	Clear
MW-6	5.37	140.16	145.53	15.1	88	1.7	5.67	238	116	Clear
MW-7	8.00	135.59	143.59	11.3	388	7.6	4.72	202	100	Clear
MW-8	20.19	141.69	161.88	16.6	390	1.7	4.73	54	27	9.81
MW-9	20.42	142.54	162.96	16.0	292	4.5	4.70	43	21	>1,000
MW-10	19.37	143.53	162.90	16.5	362	4.6	4.82	57	29	>1,000
MW-11	2.67	124.56	127.23	14.4	255	1.6	5.47	1068	531	>1,000
Minimum	0.68	122.21	124.78	11.3	-38	0.2	4.46	12	303	9.81
Maximum	20.42	143.53	162.96	16.6	420	7.6	6.57	1245	623	>1,000
Average	10.07	135.73	144.84	14.5	286	3.0	5.06	281	140	16.94
SW-1	-	-	-	9.9	328	6.9	6.10	81	40	Clear
SW-2	-	-	-	9.8	332	7.2	6.00	99	46	Clear
SW-ByMW-2	-	-	-	8.4	71	NR	6.93	606	303	Clear
SW-3	-	-	-	9.7	299	6.9	6.12	76	37	Clear
Minimum	-	-	-	8.4	71	6.9	6.00	76	37	Clear
Maximum	-	-	-	9.9	332	7.2	6.93	606	303	Clear
Average	-	-	-	9.5	258	7.0	6.29	216	107	Clear

Depth to water measured below top of casing on February 8, 2011.

NR = No reading attempted

* MW-1: Needs re-surveyed due to recent repairs, expected to be completed by next sampling event.

Appendix A
Statistical Analysis

Statistical Analysis Methodology

Statistical Analysis Methodologies

A statistical analysis was performed on metal and VOC detections utilizing Chemstat software, developed specifically for RCRA Subtitle D sites, conforming to current EPA and SWS protocols. A step-wise approach was utilized to evaluate trends in groundwater quality to identify a potential release from the landfill. Analytical data underwent preliminary data evaluation to reduce the data set and to determine if any "outliers" (defined as data that appears to be incongruent with respect to historical results) or seasonality exists that may potentially effect the results of the subsequent statistical analysis. Statistical tests were evaluated at the 0.05 level of significance, 95% confidence level, and were conducted as one-tailed tests. Statistical background values were calculated using un-manipulated data from historical semi-annual sampling events for this facility from 1994 to the current event. Historical data compiled for monitoring well(s) were used as the baseline. Groundwater data from the downgradient well(s) were compared to the pooled background groundwater data (inter-well) using methods which varied depending on the percentage of non-detects. If necessary further intra-well analysis was conducted to compare current data from a single well to its own historical data. Parameters that indicated statistical significance based on previous tests were evaluated to estimate the change in concentration over time and determine if there is an upward trend.

Preliminary Data Evaluation

A preliminary data screening was conducted on detections. Parameter concentrations below quantifiable levels (SWSL) and below levels detected in the background well were eliminated and statistical analysis was not conducted for that particular constituent/well.

Data distributions were reviewed using box and whiskers plots. To evaluate variability in concentrations with respect to time and season, time series plots were generated for select constituents. Time series plots were also visually evaluated for seasonality and "outliers". Suspected outliers were further evaluated through Dixon's Test for Outliers or Rosner's Test for Outliers depending on the number of samples and the data distribution. Outliers are generally not censored from the current or historical data set prior to statistical analysis but are further evaluated and/or qualified as necessary.

Inter-well Analyses

Inter-well statistical analysis was conducted on total metals detected during this sampling event. Monitoring well MW-1 was defined as the background well. An upper tolerance limit (UTL) with 95% coverage was computed for each detected constituent from the background data at a 95% level of confidence. For each tested constituent, an appropriate statistical analysis method was selected based on the percentages of non-detects (%ND) in the historical background data. The following Table 1 summarizes the methods used for different %ND ranges.

Table 1. Statistical Analysis Methods for Various %ND Ranges

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

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

Intra-well Analysis

Intra-well analysis was conducted on constituents found to be statistically significant by inter-well analysis and have sufficient historically known non-impacted samples. For intra-well comparisons, data from a single well is compared to historical data from the same well. In general, intra-well analysis is typically used to differentiate true contamination from spatial variability. Intra-well analysis is generally conducted through interpretation of Shewhart-CUSUM and/or Exponentially Weighted Moving Average (EWMA) control charts, where applicable.

Poisson Prediction Interval (VOCs)

Historical VOC detections in background well MW-1 were pooled to determine a total number of detections; from which the expected number of detections at a single downgradient monitoring point (y^*) was derived by utilizing the Poisson prediction interval. The parameter y^* is defined by the following equation:

$$y^* = cy + \frac{t^2 c}{2} + tc\sqrt{y\left(1+\frac{1}{c}\right)+\frac{t^2}{4}}$$

where

$c = 1/n$ (n =number of background samples)
t = one-sided value of student's t -Statistic at 95% confidence [a]
y = number of events observed in n previous samples
y^* = expected number of events in a single future sample

[a] Gibbons, R.D., 1994, Statistical methods for groundwater monitoring: John Wiley & Sons, Inc., p.12.

For each monitoring location with VOC detections the number of detected VOCs was counted with each detection being considered a "hit". The number of detections was then compared with the expected number of detections derived from the background VOC data. The value of student's t -Statistic was derived from tabulated values included in Gibbons (1994).

Determine Data Trend Over Time

Parameter trends in concentration over time indicating statistical significance were also determined. Implementation of Mann-Kendall Trend Analysis or Sen's Slope Analysis is generally used to determine if the concentration trend is increasing, decreasing, or constant.

Statistical Analysis Summary
Tables & Graphs

Inter-Well Analyses Summary
February 8 & 9, 2011

Background Well: MW-1

Arsenic, total

%ND	Normality	Method	ND Adj.	Upper Limit (a = 95%)	Unit
100	-	Poisson tolerance interval	ND	16.5	ug/l

Well	Result	Significance
MW-2	19.9	Yes

Barium, total

%ND	Normality	Method	ND Adj.	Upper Limit (a = 95%)	Unit
100	-	Poisson tolerance interval	ND	9	Log [uq/l]

Well	Result	Significance
MW-2	5.182	No
MW-4	4.771	No
MW-6	5.416	No

Beryllium, total

%ND	Normality	Method	ND Adj.	Upper Limit (a = 95%)	Unit
100	-	Poisson tolerance interval	ND	3.0	ug/l

Well	Result	Significance
MW-5	1.4	No

Cadmium, total

%ND	Normality	Method	ND Adj.	Upper Limit (a = 95%)	Unit
100	-	Poisson tolerance interval	ND	3.0	ug/l

Well	Result	Significance
MW-5	4.4	Yes

Cobalt, total

%ND	Normality	Method	ND Adj.	Upper Limit (a = 95%)	Unit
100	-	Poisson tolerance interval	ND	16.5	ug/l

Well	Result	Significance
MW-2	30.6	Yes
MW-5	23.1	Yes

Vanadium, total

%ND	Normality	Method	ND Adj.	Upper Limit (a = 95%)	Unit
100	-	Poisson tolerance interval	ND	7.0	Log [uq/l]

Well	Result	Significance
MW-5	4.079	No

Zinc, total

%ND	Normality	Method	ND Adj.	Upper Limit (a = 95%)	Unit
82.86	-	Poisson tolerance interval	ND	6.0	Log [uq/l]

Well	Result	Significance
MW-5	3.444	No

NOTE: Bold-faced monitoring points indicate detected levels exceed 2L Standard.

Summary of Pooled VOCs in Background Well (MW-1)
February 8 & 9, 2011

Constituent	Samples	NDs	% NDs
1,1,1,2-Tetrachloroethane	36	36	100.00
1,1,1-Trichloroethane	36	36	100.00
1,1,2,2-Tetrachloroethane	36	36	100.00
1,1,2-Trichloroethane	36	36	100.00
1,1-Dichloroethane	36	36	100.00
1,1-Dichloroethene	36	36	100.00
1,2,3-Trichloropropane	36	36	100.00
1,2-Dibromo-3-chloropropane	36	36	100.00
1,2-Dibromoethane	36	36	100.00
1,2-Dichlorobenzene	36	36	100.00
1,2-Dichloroethane	36	36	100.00
1,2-Dichloropropane	36	36	100.00
1,4-Dichlorobenzene	36	36	100.00
2-Butanone	36	36	100.00
2-Hexanone	36	36	100.00
4-Methyl-2-Pentanone	36	36	100.00
Acetone	36	36	100.00
Acrylonitrile	36	36	100.00
Benzene	36	36	100.00
Bromochloromethane	36	36	100.00
Bromodichloromethane	36	36	100.00
Bromoform	36	36	100.00
Bromomethane	36	36	100.00
Carbon disulfide	36	36	100.00
Carbon tetrachloride	36	36	100.00
Chlorobenzene	36	36	100.00
Chloroethane	36	36	100.00
Chloroform	36	36	100.00
Chloromethane	36	36	100.00
cis-1,2-Dichloroethene	36	36	100.00
cis-1,3-Dichloropropene	36	36	100.00
Chlorodibromomethane	36	36	100.00
Dibromomethane	36	36	100.00
Ethylbenzene	36	36	100.00
Iodomethane	36	36	100.00
Dichloromethane	36	36	100.00
Styrene	36	36	100.00
Tetrachloroethylene	36	36	100.00
Toluene	36	36	100.00
trans-1,2-Dichloroethene	36	36	100.00
trans-1,3-Dichloropropene	36	36	100.00
trans-1,4-Dichloro-2-butene	36	36	100.00
Trichloroethylene	36	36	100.00
Trichlorofluoromethane	36	36	100.00
Vinyl acetate	36	36	100.00
Vinyl chloride	36	36	100.00
Xylene	36	36	100.00
Total	**1692**	**1692**	**100.00**

Poisson Prediction Interval Based upon Pooled Background VOCs
February 8 & 9, 2011

All detected VOCs (Background Well: MW-1)

Well	1,4-DCB	Benzene	Chlorobenzene	Chloromethane	Total Cumulative Concentration	Total Detections >SWSL
2L	**6**	**1**	**50**	**2.6**	**-**	**-**
MW-2	4.8	**2.8**	23.7 ↓		31.3	3
MW-8	1.6 ↓				1.6	1
MW-11				1.2	1.2	1
TOTAL	6.4	2.8	23.7	1.2	34.1	5

Concentrations in ug/L

"j" qualifiers omitted for statistical analysis purposes

Bold = Detected above current 2L Standard

↑ = Increasing concentration trend per Sen's Slope Indicator Analysis

↓ = Decreasing concentration trend per Sen's Slope Indicator Analysis

Underlined = Concentration detected outside own historically identified range

Total number of sampling events [n] = 36

Total number of detections in background wells [y] = 0

Number of comparisons (downgradient wells) [k] = 7

One-sided value of Student's t-statistic (95% confidence) [t] = 2.552

Expected number of detections in a single future sample [y*] = **0.1809**

Statistically significant number of VOC detections within:
MW-2, MW-8 & MW-11
Per the Poisson Tolerance Interval Method at a 95% Confidence Level
No VOCs have exhibited an increasing trend in concentration per Sen's Slope Indicator Analysis

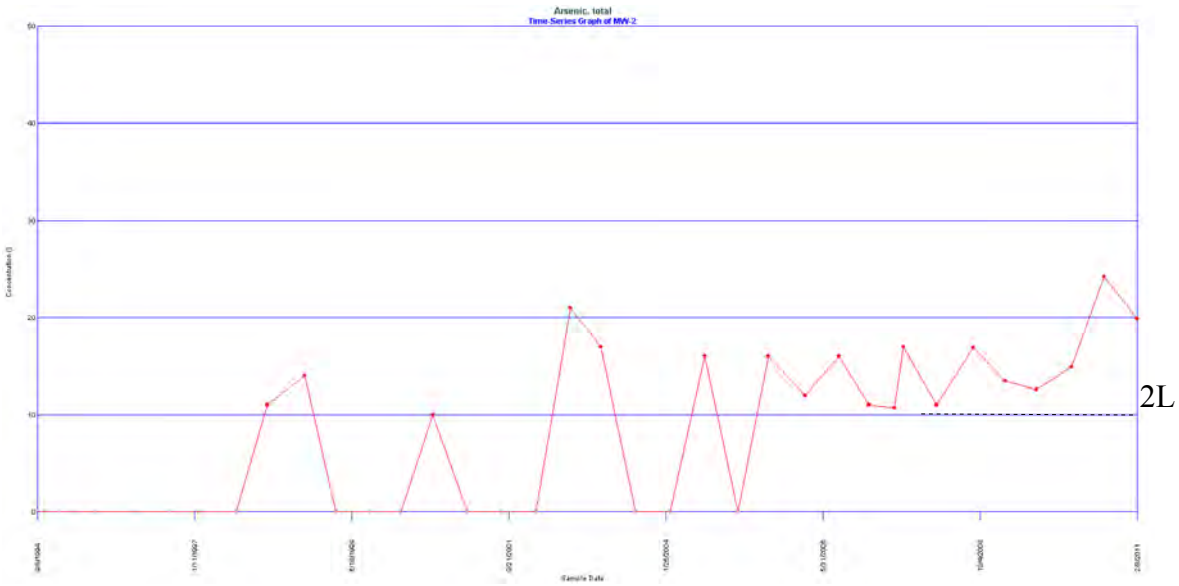
Intra-Well Analysis Summary (Metals)
February 8 & 9, 2011

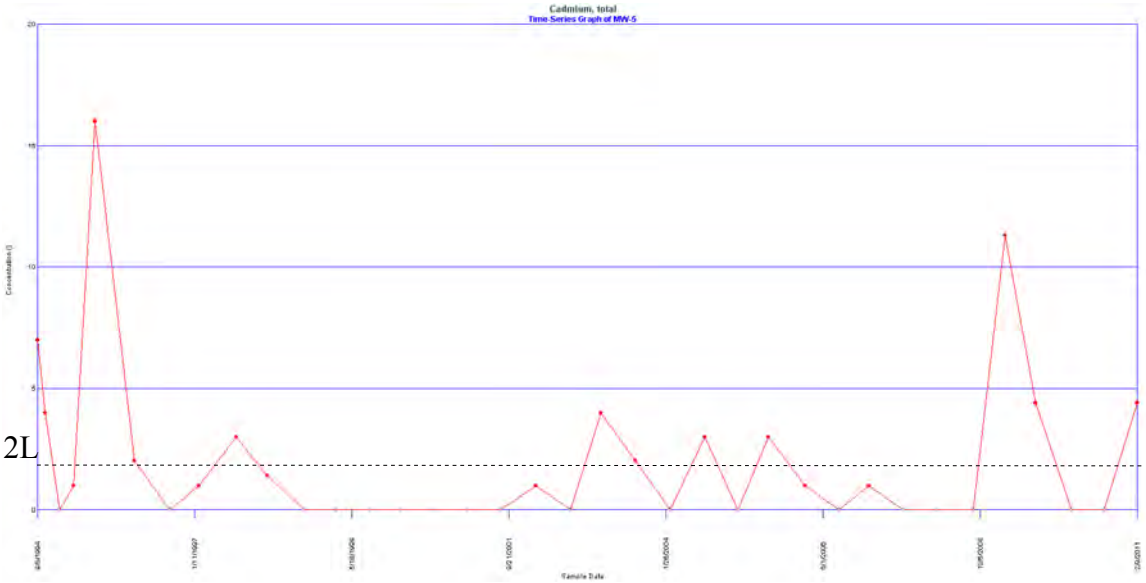
Well	Arsenic	Cadmium	Cobalt
MW-2	**Yes**		No
MW-5		**No**	Yes

EXPLANATION
yes=detection statistically significant by intrawell analysis
no=detection not statistically significant by intrawell analysis
Bold = Detected above current 2L Standard

Arsenic in MW-2 and Cobalt in MW-5 Increased According to Intra-well Analysis via Control Chart Interpretation

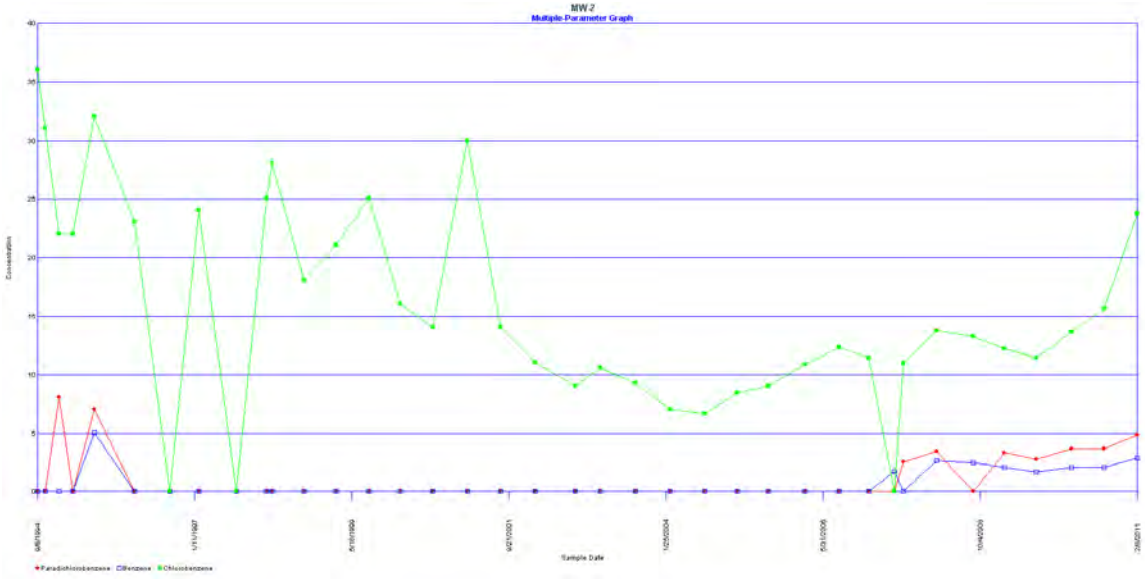
Time Series Plots for Select Constituents (Metals)
February 8 & 9, 2011

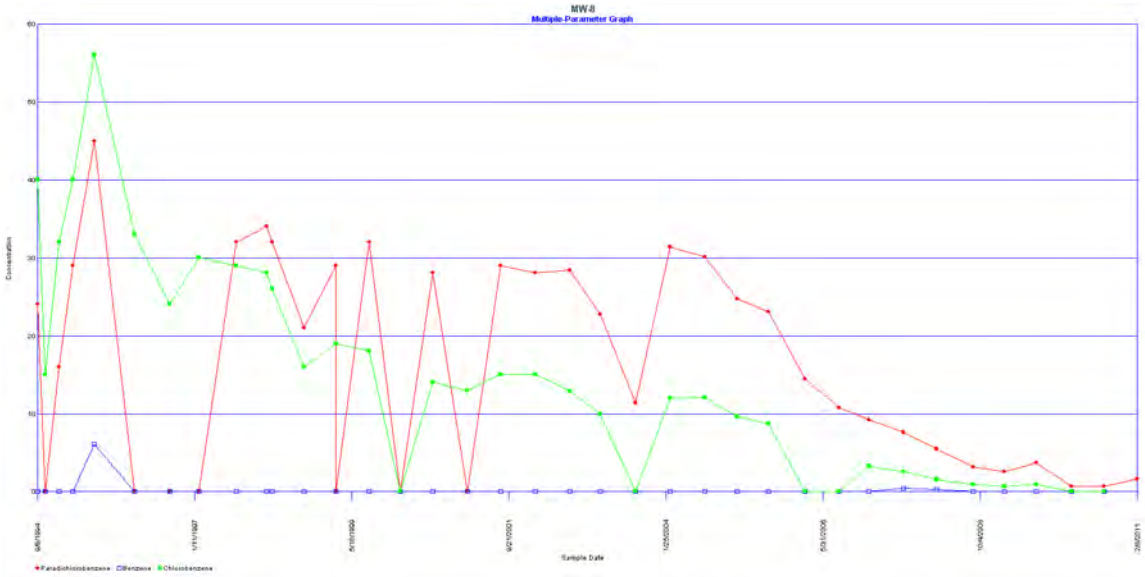




<SWSL=Represented as ZERO

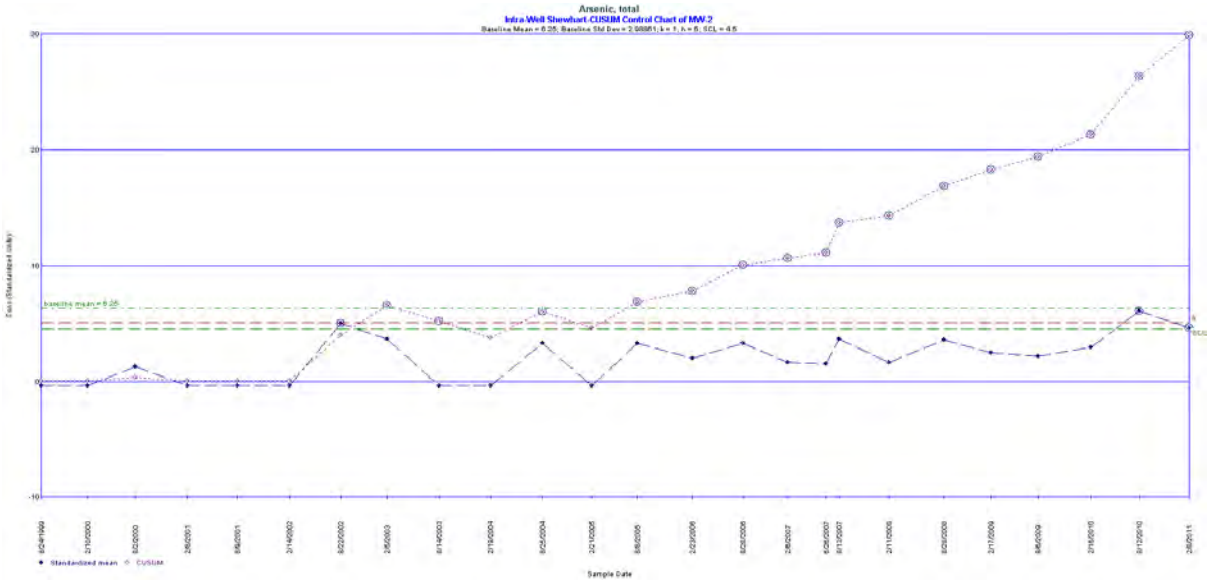
Time Series Plots for Select Constituents (VOCs)
February 8 & 9, 2011

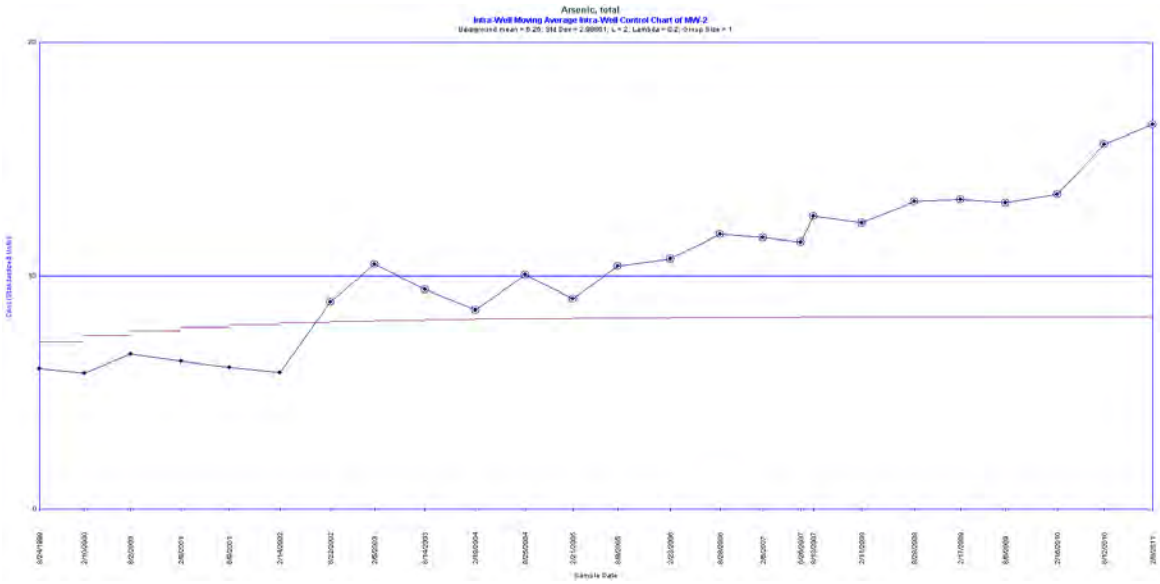




ND=Represented as Zero

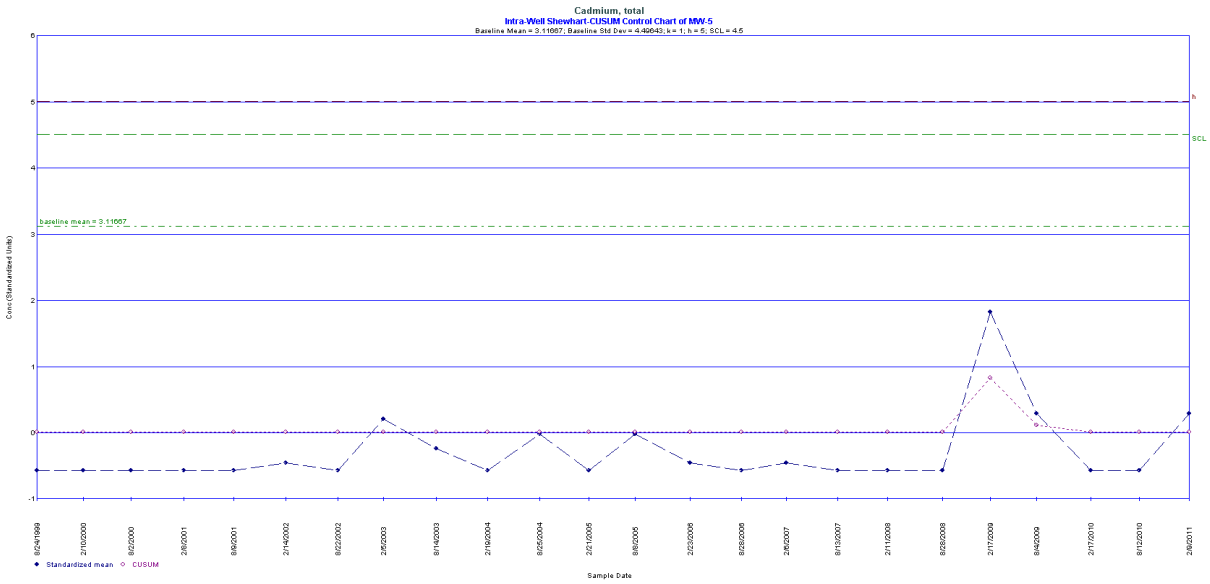
Intra-Well Analyses via Shewhart-CUSUM and EWMA Control Charts for Select Metal Constituents
February 8 & 9, 2011

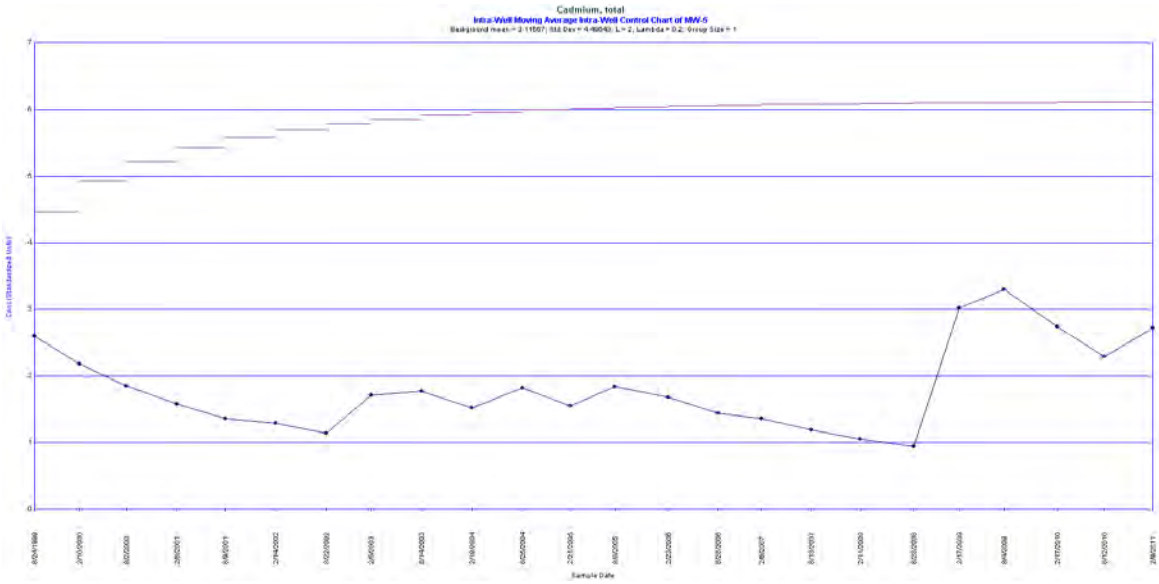




ND=Represented at ½ Detection Limit

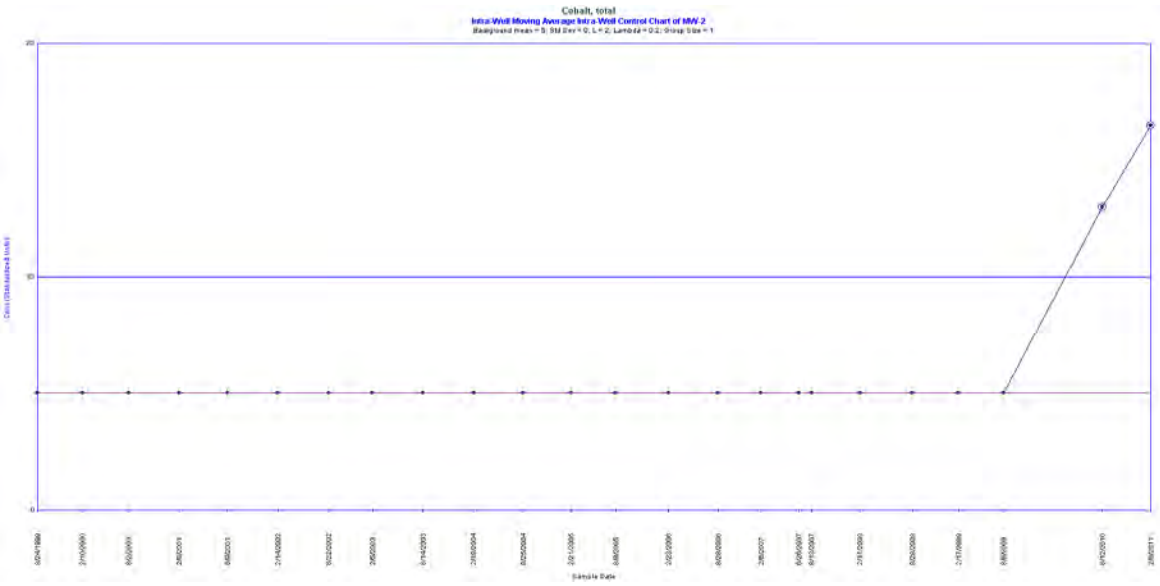
Intra-Well Analyses via Shewhart-CUSUM and EWMA Control Charts for Select Metal Constituents
February 8 & 9, 2011

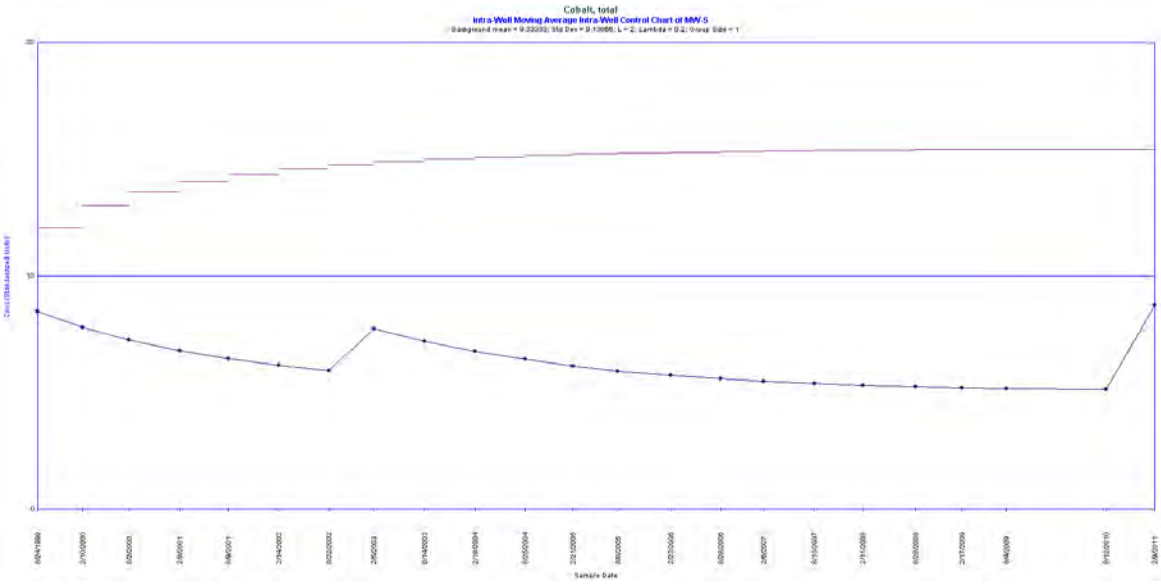




ND=Represented at ½ Detection Limit

Intra-Well Analyses via Shewhart-CUSUM and EWMA Control Charts for Select Metal Constituents
February 8 & 9, 2011





ND=Represented at ½ Detection Limit

Statistical Analysis
Basic Statistics

Basic Statistics

Parameter: Arsenic, total

Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

Total Measurements	72
Total Non-Detects	53 (73.6111%)
Pooled Mean	7.63472
Pooled Std Dev	4.83963
Compliance Meas.	37
Compliance Mean	10.127
Compliance Std Dev	5.74981
Background Meas.	35
Background Mean	5
Background Std Dev	0

Background Locations

There is 1 background location

Location	Meas.	Non-Detects	% ND	Total
MW-1	35	35	100	175

Location	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-1	5	0	0	945	27

Compliance Locations

There is 1 compliance location

Location	Obs.	Non-Detects	% ND	Total
MW-2	37	18	48.6486	374.7

Location	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
MW-2	10.127	5.74981	5.12703	0.972271	1683	45.4865

Analysis of Variance Statistics

SS Wells	472.79
SS Total	1662.96

Kruskal-Wallis Statistics

Non-Detect Rank	27
Background Rank Sum	945
Background Rank Mean	27
H Statistic	14.0337
H Adjusted for Ties	23.3429

Basic Statistics

Parameter: Barium, total

Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

Total Measurements	144
Total Non-Detects	123 (85.4167%)
Pooled Mean	72.8611
Pooled Std Dev	66.8831
Compliance Meas.	109
Compliance Mean	80.2018
Compliance Std Dev	75.4937
Background Meas.	35
Background Mean	50
Background Std Dev	0

Background Locations

There is 1 background location

Location	Meas.	Non-Detects	% ND	Total
MW-1	35	35	100	1750

Location	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-1	50	0	0	2170	62

Compliance Locations

There are 3 compliance location

Location	Obs.	Non-Detects	% ND	Total
MW-2	37	28	75.6757	2866
MW-6	36	27	75	3850
MW-4	36	33	91.6667	2026

Location	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
MW-2	77.4595	53.2518	27.4595	15.0308	2926	79.0811
MW-6	106.944	113.494	56.9444	15.132	2920	81.1111
MW-4	56.2778	21.3643	6.27778	15.132	2424	67.3333

Analysis of Variance Statistics

SS Wells	70794.9
SS Total	639689

Kruskal-Wallis Statistics

Non-Detect Rank	62
Background Rank Sum	2170
Background Rank Mean	62
H Statistic	5.22511
H Adjusted for Ties	13.8667

Basic Statistics

Parameter: Beryllium, total

Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

Total Measurements	71
Total Non-Detects	66 (92.9577%)
Pooled Mean	345.393
Pooled Std Dev	912.453
Compliance Meas.	36
Compliance Mean	680.706
Compliance Std Dev	1196.05
Background Meas.	35
Background Mean	0.5
Background Std Dev	0

Background Locations

There is 1 background location

Location	Meas.	Non-Detects	% ND	Total
MW-1	35	35	100	17.5

Location	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-1	0.5	0	0	1172.5	33.5

Compliance Locations

There is 1 compliance location

Location	Obs.	Non-Detects	% ND	Total
MW-5	36	31	86.1111	24505.4

Location	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
MW-5	680.706	1196.05	680.206	202.211	1383.5	38.4306

Analysis of Variance Statistics

SS Wells	8.21093e+006
SS Total	5.828e+007

Kruskal-Wallis Statistics

Non-Detect Rank	33.5
Background Rank Sum	1172.5
Background Rank Mean	33.5
H Statistic	1.01273
H Adjusted for Ties	5.14694

Basic Statistics

Parameter: Cadmium, total

Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

Total Measurements	71
Total Non-Detects	53 (74.6479%)
Pooled Mean	1.3662
Pooled Std Dev	2.46721
Compliance Meas.	36
Compliance Mean	2.20833
Compliance Std Dev	3.27024
Background Meas.	35
Background Mean	0.5
Background Std Dev	0

Background Locations

There is 1 background location

Location	Meas.	Non-Detects	% ND	Total
MW-1	35	35	100	17.5

Location	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-1	0.5	0	0	945	27

Compliance Locations

There is 1 compliance location

Location	Obs.	Non-Detects	% ND	Total
MW-5	36	18	50	79.5

Location	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
MW-5	2.20833	3.27024	1.70833	0.552883	1611	44.75

Analysis of Variance Statistics

SS Wells	51.7914
SS Total	426.099

Kruskal-Wallis Statistics

Non-Detect Rank	27
Background Rank Sum	945
Background Rank Mean	27
H Statistic	13.125
H Adjusted for Ties	22.4703

Basic Statistics

Parameter: Cobalt, total

Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

Total Measurements	105
Total Non-Detects	98 (93.3333%)
Pooled Mean	6.38571
Pooled Std Dev	5.89115
Compliance Meas.	71
Compliance Mean	7.0493
Compliance Std Dev	7.08402
Background Meas.	34
Background Mean	5
Background Std Dev	0

Background Locations

There is 1 background location

Location	Meas.	Non-Detects	% ND	Total
MW-1	34	34	100	170

Location	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-1	5	0	0	1683	49.5

Compliance Locations

There are 2 compliance location

Location	Obs.	Non-Detects	% ND	Total
MW-5	35	30	85.7143	255.1
MW-2	36	34	94.4444	245.4

Location	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
MW-5	7.28857	6.39001	2.28857	1.41233	1991	56.8857
MW-2	6.81667	7.78385	1.81667	1.40263	1891	52.5278

Analysis of Variance Statistics

SS Wells	100.503
SS Total	3609.39

Kruskal-Wallis Statistics

Non-Detect Rank	49.5
Background Rank Sum	1683
Background Rank Mean	49.5
H Statistic	1.02748
H Adjusted for Ties	5.4953

Basic Statistics

Parameter: Vanadium

Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

Total Measurements	71
Total Non-Detects	59 (83.0986%)
Pooled Mean	25.5718
Pooled Std Dev	39.615
Compliance Meas.	36
Compliance Mean	38.2806
Compliance Std Dev	52.9311
Background Meas.	35
Background Mean	12.5
Background Std Dev	0

Background Locations

There is 1 background location

Location	Meas.	Non-Detects	% ND	Total
MW-1	35	35	100	437.5

Location	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-1	12.5	0	0	1050	30

Compliance Locations

There is 1 compliance location

Location	Obs.	Non-Detects	% ND	Total
MW-5	36	24	66.6667	1378.1

Location	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
MW-5	38.2806	52.9311	25.7806	8.94878	1506	41.8333

Analysis of Variance Statistics

SS Wells	11795
SS Total	109854

Kruskal-Wallis Statistics

Non-Detect Rank	30
Background Rank Sum	1050
Background Rank Mean	30
H Statistic	5.83333
H Adjusted for Ties	13.6861

Basic Statistics

Parameter: Zinc, total

Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

Total Measurements	71
Total Non-Detects	54 (76.0563%)
Pooled Mean	14.3282
Pooled Std Dev	32.749
Compliance Meas.	36
Compliance Mean	13.3083
Compliance Std Dev	21.087
Background Meas.	35
Background Mean	15.3771
Background Std Dev	41.8105

Background Locations

There is 1 background location

Location	Meas.	Non-Detects	% ND	Total
MW-1	35	29	82.8571	538.2

Location	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-1	15.3771	41.8105	0	1179.5	33.7

Compliance Locations

There is 1 compliance location

Location	Obs.	Non-Detects	% ND	Total
MW-5	36	25	69.4444	479.1

Location	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
MW-5	13.3083	21.087	-2.06881	7.82613	1376.5	38.2361

Analysis of Variance Statistics

SS Wells	75.9544
SS Total	75075

Kruskal-Wallis Statistics

Non-Detect Rank	27.5
Background Rank Sum	1179.5
Background Rank Mean	33.7
H Statistic	0.857176
H Adjusted for Ties	1.53037

Basic Statistics

Parameter: Benzene

Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

Total Measurements	74
Total Non-Detects	65 (87.8378%)
Pooled Mean	2.19716
Pooled Std Dev	0.816137
Compliance Meas.	38
Compliance Mean	2.39947
Compliance Std Dev	0.637402
Background Meas.	36
Background Mean	1.98361
Background Std Dev	0.931886

Background Locations

There is 1 background location

Location	Meas.	Non-Detects	% ND	Total
MW-1	36	36	100	71.41

Location	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-1	1.98361	0.931886	0	1188	33

Compliance Locations

There is 1 compliance location

Location	Obs.	Non-Detects	% ND	Total
MW-2	38	29	76.3158	91.18

Location	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
MW-2	2.39947	0.637402	0.415863	0.184741	1587	41.7632

Analysis of Variance Statistics

SS Wells	3.19708
SS Total	48.6239

Kruskal-Wallis Statistics

Non-Detect Rank	33
Background Rank Sum	1188
Background Rank Mean	33
H Statistic	3.06947
H Adjusted for Ties	9.52291

Statistical Analysis
Inter-well Analysis

Poisson Tolerance Limit

Parameter: Arsenic, total

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

Poisson Count of 35 background measurements = 350
Degrees of Freedom = 702

95% Confidence Values

Chi-Squared Value (95% Confidence) = 764.749
Lambda (from Zack's formula) = 10.925
Smallest Degrees of Freedom = 35
Upper Tolerance Limit (95%) = 16.5

99% Confidence Values

Chi-Squared Value (99% Confidence) = 792.098
Lambda (from Zack's formula) = 11.3157
Smallest Degrees of Freedom = 41
Upper Tolerance Limit (99%) = 19.5

	Date	Conc.	Significant 95%	Significant 99%
MW-2	9/8/1994	ND<10	FALSE	FALSE
	10/20/1994	ND<10	FALSE	FALSE
	1/5/1995	ND<10	FALSE	FALSE
	3/23/1995	ND<10	FALSE	FALSE
	7/18/1995	ND<10	FALSE	FALSE
	2/20/1996	ND<10	FALSE	FALSE
	8/29/1996	ND<10	FALSE	FALSE
	2/4/1997	ND<10	FALSE	FALSE
	8/27/1997	ND<10	FALSE	FALSE
	2/11/1998	11	FALSE	FALSE
	9/2/1998	14	FALSE	FALSE
	2/22/1999	ND<10	FALSE	FALSE
	8/24/1999	ND<10	FALSE	FALSE
	2/10/2000	ND<10	FALSE	FALSE
	8/2/2000	10	FALSE	FALSE
	2/8/2001	ND<10	FALSE	FALSE
	8/9/2001	ND<10	FALSE	FALSE
	2/14/2002	ND<10	FALSE	FALSE
	8/22/2002	21	TRUE	TRUE
	2/5/2003	17	TRUE	FALSE
	8/14/2003	ND<10	FALSE	FALSE
	2/19/2004	ND<10	FALSE	FALSE
	8/25/2004	16	FALSE	FALSE
	2/21/2005	ND<10	FALSE	FALSE
	8/8/2005	16	FALSE	FALSE
	2/23/2006	12	FALSE	FALSE
	8/28/2006	16	FALSE	FALSE
	2/6/2007	11	FALSE	FALSE
	6/26/2007	10.7	FALSE	FALSE
	8/13/2007	17	TRUE	FALSE
	2/11/2008	11	FALSE	FALSE
	8/28/2008	16.9	TRUE	FALSE
	2/17/2009	13.5	FALSE	FALSE
	8/6/2009	12.6	FALSE	FALSE
	2/16/2010	14.9	FALSE	FALSE
	8/12/2010	24.2	TRUE	TRUE
	2/8/2011	19.9	TRUE	TRUE

Poisson Tolerance Limit

Parameter: Barium, total

Natural Logarithm Transformation
Non-Detects Replaced with Detection Limit

Poisson Count of 35 background measurements = 161.181
Degrees of Freedom = 324

95% Confidence Values

Chi-Squared Value (95% Confidence) = 366.977
Lambda (from Zack's formula) = 5.24253
Smallest Degrees of Freedom = 20
Upper Tolerance Limit (95%) = 9

99% Confidence Values

Chi-Squared Value (99% Confidence) = 386.142
Lambda (from Zack's formula) = 5.51632
Smallest Degrees of Freedom = 25
Upper Tolerance Limit (99%) = 11.5

	Date	Conc.	Significant 95%	Significant 99%
MW-2	9/8/1994	ND<4.60517	FALSE	FALSE
	10/20/1994	ND<4.60517	FALSE	FALSE
	1/5/1995	ND<4.60517	FALSE	FALSE
	3/23/1995	ND<4.60517	FALSE	FALSE
	7/18/1995	ND<4.60517	FALSE	FALSE
	2/20/1996	ND<4.60517	FALSE	FALSE
	8/29/1996	ND<4.60517	FALSE	FALSE
	2/4/1997	ND<4.60517	FALSE	FALSE
	8/27/1997	ND<4.60517	FALSE	FALSE
	2/11/1998	ND<4.60517	FALSE	FALSE
	9/2/1998	ND<4.60517	FALSE	FALSE
	2/22/1999	ND<4.60517	FALSE	FALSE
	8/24/1999	ND<4.60517	FALSE	FALSE
	2/10/2000	ND<4.60517	FALSE	FALSE
	8/2/2000	ND<4.60517	FALSE	FALSE
	2/8/2001	ND<4.60517	FALSE	FALSE
	8/9/2001	ND<4.60517	FALSE	FALSE
	2/14/2002	ND<4.60517	FALSE	FALSE
	8/22/2002	ND<4.60517	FALSE	FALSE
	2/5/2003	ND<4.60517	FALSE	FALSE
	8/14/2003	ND<4.60517	FALSE	FALSE
	2/19/2004	ND<4.60517	FALSE	FALSE
	8/25/2004	ND<4.60517	FALSE	FALSE
	2/21/2005	ND<4.60517	FALSE	FALSE
	8/8/2005	ND<4.60517	FALSE	FALSE
	2/23/2006	ND<4.60517	FALSE	FALSE
	8/28/2006	ND<4.60517	FALSE	FALSE
	2/6/2007	4.99043	FALSE	FALSE
	6/26/2007	ND<2.30259	FALSE	FALSE
	8/13/2007	5.2575	FALSE	FALSE
	2/11/2008	4.96284	FALSE	FALSE
	8/28/2008	5.11799	FALSE	FALSE
	2/17/2009	5.25227	FALSE	FALSE
	8/6/2009	5.14749	FALSE	FALSE
	2/16/2010	4.97673	FALSE	FALSE
	8/12/2010	5.17048	FALSE	FALSE
	2/8/2011	5.18178	FALSE	FALSE
MW-6	9/8/1994	ND<4.60517	FALSE	FALSE
	10/20/1994	ND<4.60517	FALSE	FALSE
	1/5/1995	ND<4.60517	FALSE	FALSE
	3/23/1995	ND<4.60517	FALSE	FALSE
	7/18/1995	ND<4.60517	FALSE	FALSE
	2/20/1996	ND<4.60517	FALSE	FALSE
	8/29/1996	ND<4.60517	FALSE	FALSE
	2/4/1997	ND<4.60517	FALSE	FALSE
	8/27/1997	ND<4.60517	FALSE	FALSE
	2/11/1998	ND<4.60517	FALSE	FALSE
	9/2/1998	ND<4.60517	FALSE	FALSE
	2/22/1999	ND<4.60517	FALSE	FALSE
	8/24/1999	ND<4.60517	FALSE	FALSE
	2/10/2000	ND<4.60517	FALSE	FALSE
	8/2/2000	ND<4.60517	FALSE	FALSE
	2/8/2001	ND<4.60517	FALSE	FALSE

	8/9/2001	ND<4.60517	FALSE	FALSE
	2/14/2002	ND<4.60517	FALSE	FALSE
	8/22/2002	ND<4.60517	FALSE	FALSE
	2/5/2003	ND<4.60517	FALSE	FALSE
	8/14/2003	ND<4.60517	FALSE	FALSE
	2/19/2004	ND<4.60517	FALSE	FALSE
	8/25/2004	ND<4.60517	FALSE	FALSE
	2/21/2005	ND<4.60517	FALSE	FALSE
	8/8/2005	ND<4.60517	FALSE	FALSE
	2/23/2006	ND<4.60517	FALSE	FALSE
	8/28/2006	ND<4.60517	FALSE	FALSE
	2/6/2007	5.81114	FALSE	FALSE
	8/13/2007	5.4161	FALSE	FALSE
	2/11/2008	6.05209	FALSE	FALSE
	8/28/2008	5.73979	FALSE	FALSE
	2/17/2009	6.10256	FALSE	FALSE
	8/4/2009	5.50939	FALSE	FALSE
	2/17/2010	4.63473	FALSE	FALSE
	8/12/2010	5.20949	FALSE	FALSE
	2/9/2011	5.4161	FALSE	FALSE
MW-4	9/8/1994	ND<4.60517	FALSE	FALSE
	10/20/1994	ND<4.60517	FALSE	FALSE
	1/5/1995	ND<4.60517	FALSE	FALSE
	3/23/1995	ND<4.60517	FALSE	FALSE
	7/18/1995	ND<4.60517	FALSE	FALSE
	2/20/1996	ND<4.60517	FALSE	FALSE
	8/29/1996	ND<4.60517	FALSE	FALSE
	2/4/1997	ND<4.60517	FALSE	FALSE
	8/27/1997	ND<4.60517	FALSE	FALSE
	2/11/1998	ND<4.60517	FALSE	FALSE
	9/2/1998	ND<4.60517	FALSE	FALSE
	2/22/1999	ND<4.60517	FALSE	FALSE
	8/24/1999	ND<4.60517	FALSE	FALSE
	2/10/2000	ND<4.60517	FALSE	FALSE
	8/2/2000	ND<4.60517	FALSE	FALSE
	2/8/2001	ND<4.60517	FALSE	FALSE
	8/9/2001	ND<4.60517	FALSE	FALSE
	2/14/2002	ND<4.60517	FALSE	FALSE
	8/22/2002	ND<4.60517	FALSE	FALSE
	2/5/2003	ND<4.60517	FALSE	FALSE
	8/14/2003	ND<4.60517	FALSE	FALSE
	2/19/2004	ND<4.60517	FALSE	FALSE
	8/25/2004	ND<4.60517	FALSE	FALSE
	2/21/2005	ND<4.60517	FALSE	FALSE
	8/8/2005	ND<4.60517	FALSE	FALSE
	2/23/2006	ND<4.60517	FALSE	FALSE
	8/28/2006	ND<4.60517	FALSE	FALSE
	2/6/2007	ND<4.60517	FALSE	FALSE
	8/13/2007	4.94876	FALSE	FALSE
	2/11/2008	ND<4.60517	FALSE	FALSE
	8/28/2008	ND<4.60517	FALSE	FALSE
	2/17/2009	ND<4.60517	FALSE	FALSE
	8/4/2009	ND<4.60517	FALSE	FALSE
	2/17/2010	ND<4.60517	FALSE	FALSE
	8/12/2010	4.76217	FALSE	FALSE
	2/8/2011	4.77068	FALSE	FALSE

Poisson Tolerance Limit

Parameter: Beryllium, total

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

Poisson Count of 35 background measurements = 35
Degrees of Freedom = 72

95% Confidence Values

Chi-Squared Value (95% Confidence) = 92.8083
Lambda (from Zack's formula) = 1.32583
Smallest Degrees of Freedom = 8
Upper Tolerance Limit (95%) = 3

99% Confidence Values

Chi-Squared Value (99% Confidence) = 102.816
Lambda (from Zack's formula) = 1.4688
Smallest Degrees of Freedom = 11
Upper Tolerance Limit (99%) = 4.5

	Date	Conc.	Significant 95%	Significant 99%
MW-5	9/8/1994	2000	TRUE	TRUE
	10/20/1994	2000	TRUE	TRUE
	1/5/1995	ND<1000	TRUE	TRUE
	3/23/1995	ND<1000	TRUE	TRUE
	7/18/1995	7000	TRUE	TRUE
	2/20/1996	ND<1000	TRUE	TRUE
	8/29/1996	ND<1000	TRUE	TRUE
	2/4/1997	ND<1000	TRUE	TRUE
	8/27/1997	ND<1000	TRUE	TRUE
	2/11/1998	ND<1000	TRUE	TRUE
	9/2/1998	ND<1000	TRUE	TRUE
	2/22/1999	ND<1000	TRUE	TRUE
	8/24/1999	ND<1000	TRUE	TRUE
	2/10/2000	ND<1000	TRUE	TRUE
	8/2/2000	ND<1000	TRUE	TRUE
	2/8/2001	ND<1000	TRUE	TRUE
	8/9/2001	ND<1000	TRUE	TRUE
	2/14/2002	ND<1000	TRUE	TRUE
	8/22/2002	ND<1000	TRUE	TRUE
	2/5/2003	2000	TRUE	TRUE
	8/14/2003	ND<1000	TRUE	TRUE
	2/19/2004	ND<1000	TRUE	TRUE
	8/25/2004	ND<1000	TRUE	TRUE
	2/21/2005	ND<1000	TRUE	TRUE
	8/8/2005	ND<1000	TRUE	TRUE
	2/23/2006	ND<1000	TRUE	TRUE
	8/28/2006	ND<1000	TRUE	TRUE
	2/6/2007	ND<1	FALSE	FALSE
	8/13/2007	ND<1	FALSE	FALSE
	2/11/2008	ND<1	FALSE	FALSE
	8/28/2008	ND<1	FALSE	FALSE
	2/17/2009	ND<1	FALSE	FALSE
	8/4/2009	ND<1	FALSE	FALSE
	2/17/2010	ND<1	FALSE	FALSE
	8/12/2010	ND<1	FALSE	FALSE
	2/9/2011	1.4	FALSE	FALSE

Poisson Tolerance Limit

Parameter: Cadmium, total

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

Poisson Count of 35 background measurements = 35
Degrees of Freedom = 72

95% Confidence Values

Chi-Squared Value (95% Confidence) = 92.8083
Lambda (from Zack's formula) = 1.32583
Smallest Degrees of Freedom = 8
Upper Tolerance Limit (95%) = 3

99% Confidence Values

Chi-Squared Value (99% Confidence) = 102.816
Lambda (from Zack's formula) = 1.4688
Smallest Degrees of Freedom = 11
Upper Tolerance Limit (99%) = 4.5

	Date	Conc.	Significant 95%	Significant 99%
MW-5	9/8/1994	7	TRUE	TRUE
	10/20/1994	4	TRUE	FALSE
	1/5/1995	ND<1	FALSE	FALSE
	3/23/1995	1	FALSE	FALSE
	7/18/1995	16	TRUE	TRUE
	2/20/1996	2	FALSE	FALSE
	8/29/1996	ND<1	FALSE	FALSE
	2/4/1997	1	FALSE	FALSE
	8/27/1997	3	FALSE	FALSE
	2/11/1998	1.4	FALSE	FALSE
	9/2/1998	ND<1	FALSE	FALSE
	2/22/1999	ND<1	FALSE	FALSE
	8/24/1999	ND<1	FALSE	FALSE
	2/10/2000	ND<1	FALSE	FALSE
	8/2/2000	ND<1	FALSE	FALSE
	2/8/2001	ND<1	FALSE	FALSE
	8/9/2001	ND<1	FALSE	FALSE
	2/14/2002	1	FALSE	FALSE
	8/22/2002	ND<1	FALSE	FALSE
	2/5/2003	4	TRUE	FALSE
	8/14/2003	2	FALSE	FALSE
	2/19/2004	ND<1	FALSE	FALSE
	8/25/2004	3	FALSE	FALSE
	2/21/2005	ND<1	FALSE	FALSE
	8/8/2005	3	FALSE	FALSE
	2/23/2006	1	FALSE	FALSE
	8/28/2006	ND<1	FALSE	FALSE
	2/6/2007	1	FALSE	FALSE
	8/13/2007	ND<1	FALSE	FALSE
	2/11/2008	ND<1	FALSE	FALSE
	8/28/2008	ND<1	FALSE	FALSE
	2/17/2009	11.3	TRUE	TRUE
	8/4/2009	4.4	TRUE	FALSE
	2/17/2010	ND<1	FALSE	FALSE
	8/12/2010	ND<1	FALSE	FALSE
	2/9/2011	4.4	TRUE	FALSE

Poisson Tolerance Limit

Parameter: Cobalt, total

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

Poisson Count of 34 background measurements = 340
Degrees of Freedom = 682

95% Confidence Values

Chi-Squared Value (95% Confidence) = 743.864
Lambda (from Zack's formula) = 10.9392
Smallest Degrees of Freedom = 35
Upper Tolerance Limit (95%) = 16.5

99% Confidence Values

Chi-Squared Value (99% Confidence) = 770.846
Lambda (from Zack's formula) = 11.336
Smallest Degrees of Freedom = 41
Upper Tolerance Limit (99%) = 19.5

	Date	Conc.	Significant 95%	Significant 99%
MW-5	9/8/1994	17	TRUE	FALSE
	10/20/1994	15	FALSE	FALSE
	1/5/1995	ND<10	FALSE	FALSE
	3/23/1995	ND<10	FALSE	FALSE
	7/18/1995	35	TRUE	TRUE
	2/20/1996	ND<10	FALSE	FALSE
	8/29/1996	ND<10	FALSE	FALSE
	2/4/1997	ND<10	FALSE	FALSE
	8/27/1997	ND<10	FALSE	FALSE
	2/11/1998	ND<10	FALSE	FALSE
	9/2/1998	ND<10	FALSE	FALSE
	2/22/1999	ND<10	FALSE	FALSE
	8/24/1999	ND<10	FALSE	FALSE
	2/10/2000	ND<10	FALSE	FALSE
	8/2/2000	ND<10	FALSE	FALSE
	2/8/2001	ND<10	FALSE	FALSE
	8/9/2001	ND<10	FALSE	FALSE
	2/14/2002	ND<10	FALSE	FALSE
	8/22/2002	ND<10	FALSE	FALSE
	2/5/2003	15	FALSE	FALSE
	8/14/2003	ND<10	FALSE	FALSE
	2/19/2004	ND<10	FALSE	FALSE
	8/25/2004	ND<10	FALSE	FALSE
	2/21/2005	ND<10	FALSE	FALSE
	8/8/2005	ND<10	FALSE	FALSE
	2/23/2006	ND<10	FALSE	FALSE
	8/28/2006	ND<10	FALSE	FALSE
	2/6/2007	ND<10	FALSE	FALSE
	8/13/2007	ND<10	FALSE	FALSE
	2/11/2008	ND<10	FALSE	FALSE
	8/28/2008	ND<10	FALSE	FALSE
	2/17/2009	ND<10	FALSE	FALSE
	8/4/2009	ND<10	FALSE	FALSE
	8/12/2010	ND<10	FALSE	FALSE
	2/9/2011	23.1	TRUE	TRUE
MW-2	9/8/1994	ND<10	FALSE	FALSE
	10/20/1994	ND<10	FALSE	FALSE
	1/5/1995	ND<10	FALSE	FALSE
	3/23/1995	ND<10	FALSE	FALSE
	7/18/1995	ND<10	FALSE	FALSE
	2/20/1996	ND<10	FALSE	FALSE
	8/29/1996	ND<10	FALSE	FALSE
	2/4/1997	ND<10	FALSE	FALSE
	8/27/1997	ND<10	FALSE	FALSE
	2/11/1998	ND<10	FALSE	FALSE
	9/2/1998	ND<10	FALSE	FALSE
	2/22/1999	ND<10	FALSE	FALSE
	8/24/1999	ND<10	FALSE	FALSE
	2/10/2000	ND<10	FALSE	FALSE
	8/2/2000	ND<10	FALSE	FALSE
	2/8/2001	ND<10	FALSE	FALSE
	8/9/2001	ND<10	FALSE	FALSE
	2/14/2002	ND<10	FALSE	FALSE

8/22/2002	ND<10	FALSE	FALSE
2/5/2003	ND<10	FALSE	FALSE
8/14/2003	ND<10	FALSE	FALSE
2/19/2004	ND<10	FALSE	FALSE
8/25/2004	ND<10	FALSE	FALSE
2/21/2005	ND<10	FALSE	FALSE
8/8/2005	ND<10	FALSE	FALSE
2/23/2006	ND<10	FALSE	FALSE
8/28/2006	ND<10	FALSE	FALSE
2/6/2007	ND<10	FALSE	FALSE
6/26/2007	ND<10	FALSE	FALSE
8/13/2007	ND<10	FALSE	FALSE
2/11/2008	ND<10	FALSE	FALSE
8/28/2008	ND<10	FALSE	FALSE
2/17/2009	ND<10	FALSE	FALSE
8/6/2009	ND<10	FALSE	FALSE
8/12/2010	44.8	**TRUE**	**TRUE**
2/8/2011	30.6	**TRUE**	**TRUE**

Poisson Tolerance Limit

Parameter: Vanadium

Natural Logarithm Transformation
Non-Detects Replaced with Detection Limit

Poisson Count of 35 background measurements = 112.661
Degrees of Freedom = 227

95% Confidence Values

Chi-Squared Value (95% Confidence) = 263.147
Lambda (from Zack's formula) = 3.75924
Smallest Degrees of Freedom = 16
Upper Tolerance Limit (95%) = 7

99% Confidence Values

Chi-Squared Value (99% Confidence) = 279.488
Lambda (from Zack's formula) = 3.99268
Smallest Degrees of Freedom = 20
Upper Tolerance Limit (99%) = 9

	Date	Conc.	Significant 95%	Significant 99%
MW-5	9/8/1994	4.38203	FALSE	FALSE
	10/20/1994	4.47734	FALSE	FALSE
	1/5/1995	ND<3.21888	FALSE	FALSE
	3/23/1995	ND<3.21888	FALSE	FALSE
	7/18/1995	5.63835	FALSE	FALSE
	2/20/1996	3.95124	FALSE	FALSE
	8/29/1996	3.95124	FALSE	FALSE
	2/4/1997	3.95124	FALSE	FALSE
	8/27/1997	4.27667	FALSE	FALSE
	2/11/1998	3.95124	FALSE	FALSE
	9/2/1998	ND<3.21888	FALSE	FALSE
	2/22/1999	ND<3.21888	FALSE	FALSE
	8/24/1999	ND<3.21888	FALSE	FALSE
	2/10/2000	ND<3.21888	FALSE	FALSE
	8/2/2000	ND<3.21888	FALSE	FALSE
	2/8/2001	ND<3.21888	FALSE	FALSE
	8/9/2001	ND<3.21888	FALSE	FALSE
	2/14/2002	ND<3.21888	FALSE	FALSE
	8/22/2002	ND<3.21888	FALSE	FALSE
	2/5/2003	5.04986	FALSE	FALSE
	8/14/2003	ND<3.21888	FALSE	FALSE
	2/19/2004	ND<3.21888	FALSE	FALSE
	8/25/2004	4.51086	FALSE	FALSE
	2/21/2005	ND<3.21888	FALSE	FALSE
	8/8/2005	3.7612	FALSE	FALSE
	2/23/2006	ND<3.21888	FALSE	FALSE
	8/28/2006	ND<3.21888	FALSE	FALSE
	2/6/2007	ND<3.21888	FALSE	FALSE
	8/13/2007	ND<3.21888	FALSE	FALSE
	2/11/2008	ND<3.21888	FALSE	FALSE
	8/28/2008	ND<3.21888	FALSE	FALSE
	2/17/2009	ND<3.21888	FALSE	FALSE
	8/4/2009	ND<3.21888	FALSE	FALSE
	2/17/2010	ND<3.21888	FALSE	FALSE
	8/12/2010	ND<3.21888	FALSE	FALSE
	2/9/2011	4.07923	FALSE	FALSE

Poisson Tolerance Limit

Parameter: Zinc, total

Natural Logarithm Transformation
Non-Detects Replaced with Detection Limit

Poisson Count of 35 background measurements = 87.9134
Degrees of Freedom = 177

95% Confidence Values

Chi-Squared Value (95% Confidence) = 209.042
Lambda (from Zack's formula) = 2.98632
Smallest Degrees of Freedom = 14
Upper Tolerance Limit (95%) = 6

99% Confidence Values

Chi-Squared Value (99% Confidence) = 223.686
Lambda (from Zack's formula) = 3.19552
Smallest Degrees of Freedom = 17
Upper Tolerance Limit (99%) = 7.5

	Date	Conc.	Significant 95%	Significant 99%
MW-5	9/8/1994	4.27667	FALSE	FALSE
	10/20/1994	ND<2.30259	FALSE	FALSE
	1/5/1995	ND<2.30259	FALSE	FALSE
	3/23/1995	ND<2.30259	FALSE	FALSE
	7/18/1995	4.7185	FALSE	FALSE
	2/20/1996	ND<2.30259	FALSE	FALSE
	8/29/1996	ND<2.30259	FALSE	FALSE
	2/4/1997	ND<2.30259	FALSE	FALSE
	8/27/1997	ND<2.30259	FALSE	FALSE
	2/11/1998	ND<2.30259	FALSE	FALSE
	9/2/1998	ND<2.30259	FALSE	FALSE
	2/22/1999	ND<2.30259	FALSE	FALSE
	8/24/1999	ND<2.30259	FALSE	FALSE
	2/10/2000	ND<2.30259	FALSE	FALSE
	8/2/2000	ND<2.30259	FALSE	FALSE
	2/8/2001	ND<2.30259	FALSE	FALSE
	8/9/2001	ND<2.30259	FALSE	FALSE
	2/14/2002	ND<2.30259	FALSE	FALSE
	8/22/2002	ND<2.30259	FALSE	FALSE
	2/5/2003	ND<2.30259	FALSE	FALSE
	8/14/2003	ND<2.30259	FALSE	FALSE
	2/19/2004	ND<2.30259	FALSE	FALSE
	8/25/2004	ND<2.30259	FALSE	FALSE
	2/21/2005	ND<2.30259	FALSE	FALSE
	8/8/2005	ND<2.30259	FALSE	FALSE
	2/23/2006	ND<2.30259	FALSE	FALSE
	8/28/2006	ND<2.30259	FALSE	FALSE
	2/6/2007	2.94444	FALSE	FALSE
	8/13/2007	2.3979	FALSE	FALSE
	2/11/2008	2.99573	FALSE	FALSE
	8/28/2008	2.87356	FALSE	FALSE
	2/17/2009	2.98062	FALSE	FALSE
	8/4/2009	3.28091	FALSE	FALSE
	2/17/2010	2.66723	FALSE	FALSE
	8/12/2010	2.34181	FALSE	FALSE
	2/9/2011	3.44362	FALSE	FALSE

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

Laboratory Analysis Report
Chains of Custody

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March 02, 2011

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

RE: Project: WAYNE CLOSED MSWLF-DUDLEY
Pace Project No.: 9287512

Dear Mr. Pfohl:
Enclosed are the analytical results for sample(s) received by the laboratory between February 09, 2011 and February 10, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated 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

cc: Ms. Maggie German, Municipal Engineering Services

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CERTIFICATIONS

Project: WAYNE CLOSED MSWLF-DUDLEY
Pace Project No.: 9287512

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
Pennsylvania Certification #: 68-00784
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Virginia Certification #: 00213
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DHH Drinking Water # LA 100031
West Virginia Certification #: 357

Asheville Certification IDs

2225 Riverside Dr., Asheville, NC 28804
Connecticut Certification #: PH-0106
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
New Jersey Certification #: NC011
North Carolina Bioassay Certification #: 9
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
Pennsylvania Certification #: 68-03578
South Carolina Bioassay Certification #: 99030002
South Carolina Certification #: 99030001
Virginia Certification #: 00072
West Virginia Certification #: 356

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SAMPLE SUMMARY

Project: WAYNE CLOSED MSWLF-DUDLEY
Pace Project No.: 9287512

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9287512001	**MW-1**	Water	02/08/11 15:00	02/09/11 16:40
9287512002	**MW-2**	Water	02/08/11 14:00	02/09/11 16:40
9287512003	**MW-8**	Water	02/08/11 16:00	02/09/11 16:40
9287512004	**MW-4**	Water	02/08/11 12:40	02/09/11 16:40
9287512005	**MW-3**	Water	02/09/11 11:15	02/10/11 15:43
9287512006	**MW-5**	Water	02/09/11 14:05	02/10/11 15:43
9287512007	**MW-6**	Water	02/09/11 10:20	02/10/11 15:43
9287512008	**MW-7**	Water	02/09/11 09:45	02/10/11 15:43
9287512009	**MW-9**	Water	02/09/11 12:00	02/10/11 15:43
9287512010	**MW-10**	Water	02/09/11 13:35	02/10/11 15:43
9287512011	**MW-11**	Water	02/09/11 14:40	02/10/11 15:43

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SAMPLE ANALYTE COUNT

Project: WAYNE CLOSED MSWLF-DUDLEY
Pace Project No.: 9287512

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9287512001	**MW-1**	EPA 6010	JMW	17	PASI-A
		EPA 7470	EWS	1	PASI-A
		EPA 8260	MCK	68	PASI-C
		SM 2320B	DMN	1	PASI-A
		SM 4500-S2D	RAB	1	PASI-A
		SM 5210B	SHB	1	PASI-A
		EPA 300.0	JDA	1	PASI-A
		EPA 353.2	RAB	1	PASI-A
		SM 4500-Cl-E	SAJ	1	PASI-A
		SM 4500-CN-E	LEP	1	PASI-A
		SM 5220D	SDH	1	PASI-A
		SM 5310B	JDA	1	PASI-A
9287512002	**MW-2**	EPA 6010	JMW	17	PASI-A
		EPA 7470	EWS	1	PASI-A
		EPA 8260	MCK	68	PASI-C
		SM 2320B	DMN	1	PASI-A
		SM 4500-S2D	RAB	1	PASI-A
		SM 5210B	SHB	1	PASI-A
		EPA 300.0	JDA	1	PASI-A
		EPA 353.2	RAB	1	PASI-A
		SM 4500-Cl-E	SAJ	1	PASI-A
		SM 4500-CN-E	LEP	1	PASI-A
		SM 5220D	SDH	1	PASI-A
		SM 5310B	JDA	1	PASI-A
9287512003	**MW-8**	EPA 6010	JMW	16	PASI-A
		EPA 8260	MCK	52	PASI-C
		SM 2320B	DMN	1	PASI-A
		SM 4500-S2D	RAB	1	PASI-A
		SM 5210B	SHB	1	PASI-A
		EPA 300.0	JDA	1	PASI-A
		EPA 353.2	RAB	1	PASI-A
		SM 4500-Cl-E	SAJ	1	PASI-A
		SM 5220D	SDH	1	PASI-A
		SM 5310B	JDA	1	PASI-A
9287512004	**MW-4**	EPA 6010	JMW	16	PASI-A
		EPA 7470	EWS	1	PASI-A
		EPA 8260	MCK	52	PASI-C

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SAMPLE ANALYTE COUNT

Project: WAYNE CLOSED MSWLF-DUDLEY
Pace Project No.: 9287512

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-S2D	RAB	1	PASI-A
9287512005	**MW-3**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	52	PASI-C
9287512006	**MW-5**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	52	PASI-C
9287512007	**MW-6**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	52	PASI-C
9287512008	**MW-7**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	52	PASI-C
9287512009	**MW-9**	EPA 8260	MCK	52	PASI-C
9287512010	**MW-10**	EPA 8260	MCK	52	PASI-C
9287512011	**MW-11**	EPA 8260	MCK	68	PASI-C

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF-DUDLEY
Pace Project No.: 9287512

Sample: MW-1 **Lab ID: 9287512001** Collected: 02/08/11 15:00 Received: 02/09/11 16:40 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	2.6	1	02/12/11 09:30	02/23/11 06:27	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	02/12/11 09:30	02/23/11 06:27	7440-38-2	
Barium	**54.3J**	ug/L	100	0.20	1	02/12/11 09:30	02/23/11 06:27	7440-39-3	
Beryllium	**0.40J**	ug/L	1.0	0.10	1	02/12/11 09:30	02/23/11 06:27	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	02/12/11 09:30	02/23/11 06:27	7440-43-9	
Chromium	**4.9J**	ug/L	10.0	0.40	1	02/12/11 09:30	02/23/11 06:27	7440-47-3	
Cobalt	**1.3J**	ug/L	10.0	0.60	1	02/12/11 09:30	02/23/11 06:27	7440-48-4	
Copper	**6.1J**	ug/L	10.0	0.30	1	02/12/11 09:30	02/23/11 06:27	7440-50-8	
Iron	**3580**	ug/L	300	14.0	1	02/12/11 09:30	02/23/11 06:27	7439-89-6	
Lead	**5.4J**	ug/L	10.0	4.0	1	02/12/11 09:30	02/23/11 06:27	7439-92-1	
Nickel	ND	ug/L	50.0	1.7	1	02/12/11 09:30	02/23/11 06:27	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	02/12/11 09:30	02/23/11 06:27	7782-49-2	
Silver	**0.23J**	ug/L	10.0	0.10	1	02/12/11 09:30	02/23/11 06:27	7440-22-4	
Thallium	ND	ug/L	5.5	3.0	1	02/12/11 09:30	02/23/11 06:27	7440-28-0	
Tin	ND	ug/L	100	1.8	1	02/12/11 09:30	02/23/11 06:27	7440-31-5	
Vanadium	**8.0J**	ug/L	25.0	0.20	1	02/12/11 09:30	02/23/11 06:27	7440-62-2	
Zinc	**18.4**	ug/L	10.0	0.40	1	02/12/11 09:30	02/23/11 06:27	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470		Preparation Method: EPA 7470						
Mercury	ND	ug/L	0.20	0.10	1	02/22/11 16:30	03/01/11 16:41	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		02/18/11 17:01	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		02/18/11 17:01	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		02/18/11 17:01	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		02/18/11 17:01	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		02/18/11 17:01	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		02/18/11 17:01	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/18/11 17:01	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/18/11 17:01	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/18/11 17:01	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/18/11 17:01	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/18/11 17:01	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/18/11 17:01	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/18/11 17:01	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/18/11 17:01	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/18/11 17:01	75-00-3	
Chloroform	**0.22J**	ug/L	5.0	0.14	1		02/18/11 17:01	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/18/11 17:01	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		02/18/11 17:01	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/18/11 17:01	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/18/11 17:01	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/18/11 17:01	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/18/11 17:01	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/18/11 17:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		02/18/11 17:01	541-73-1	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF-DUDLEY
Pace Project No.: 9287512

Sample: MW-1 **Lab ID: 9287512001** Collected: 02/08/11 15:00 Received: 02/09/11 16:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/18/11 17:01	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/18/11 17:01	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		02/18/11 17:01	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/18/11 17:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/18/11 17:01	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/18/11 17:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/18/11 17:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/18/11 17:01	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/18/11 17:01	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/18/11 17:01	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		02/18/11 17:01	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		02/18/11 17:01	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/18/11 17:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/18/11 17:01	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/18/11 17:01	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		02/18/11 17:01	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		02/18/11 17:01	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/18/11 17:01	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/18/11 17:01	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		02/18/11 17:01	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		02/18/11 17:01	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/18/11 17:01	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		02/18/11 17:01	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/18/11 17:01	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		02/18/11 17:01	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		02/18/11 17:01	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		02/18/11 17:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/18/11 17:01	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/18/11 17:01	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/18/11 17:01	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/18/11 17:01	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		02/18/11 17:01	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/18/11 17:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/18/11 17:01	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/18/11 17:01	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/18/11 17:01	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/18/11 17:01	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/18/11 17:01	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/18/11 17:01	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/18/11 17:01	1330-20-7	
4-Bromofluorobenzene (S)	96	%	70-130		1		02/18/11 17:01	460-00-4	
Dibromofluoromethane (S)	114	%	70-130		1		02/18/11 17:01	1868-53-7	
1,2-Dichloroethane-d4 (S)	115	%	70-130		1		02/18/11 17:01	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		02/18/11 17:01	2037-26-5	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF-DUDLEY
Pace Project No.: 9287512

Sample: MW-1 **Lab ID: 9287512001** Collected: 02/08/11 15:00 Received: 02/09/11 16:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**5710**	ug/L	5000	5000	1		02/16/11 16:00		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		02/11/11 19:00	18496-25-8	
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	ND	ug/L	2000	2000	1	02/10/11 12:27	02/15/11 10:45		B4
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	ND	ug/L	5000	5000	1		02/21/11 17:55	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	ug/L	10000	100	1		02/09/11 22:39		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	ND	ug/L	5000	5000	1		02/23/11 20:48	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E								
Cyanide	ND	ug/L	10.0	5.0	1		02/20/11 11:42	57-12-5	
5220D COD	Analytical Method: SM 5220D								
Chemical Oxygen Demand	**57000**	ug/L	25000	25000	1		02/21/11 15:29		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**18400**	ug/L	1000	1000	1		02/15/11 15:41	7440-44-0	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF-DUDLEY
Pace Project No.: 9287512

Sample: MW-2 **Lab ID: 9287512002** Collected: 02/08/11 14:00 Received: 02/09/11 16:40 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	2.6	1	02/12/11 09:30	02/23/11 06:31	7440-36-0	
Arsenic	**19.9**	ug/L	10.0	2.7	1	02/12/11 09:30	02/23/11 06:31	7440-38-2	
Barium	**178**	ug/L	100	0.20	1	02/12/11 09:30	02/23/11 06:31	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	02/12/11 09:30	02/23/11 06:31	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	02/12/11 09:30	02/23/11 06:31	7440-43-9	
Chromium	**1.1J**	ug/L	10.0	0.40	1	02/12/11 09:30	02/23/11 06:31	7440-47-3	
Cobalt	**30.6**	ug/L	10.0	0.60	1	02/12/11 09:30	02/23/11 06:31	7440-48-4	
Copper	ND	ug/L	10.0	0.30	1	02/12/11 09:30	02/23/11 06:31	7440-50-8	
Iron	**53000**	ug/L	300	14.0	1	02/12/11 09:30	02/23/11 06:31	7439-89-6	
Lead	ND	ug/L	10.0	4.0	1	02/12/11 09:30	02/23/11 06:31	7439-92-1	
Nickel	ND	ug/L	50.0	1.7	1	02/12/11 09:30	02/23/11 06:31	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	02/12/11 09:30	02/23/11 06:31	7782-49-2	
Silver	**0.51J**	ug/L	10.0	0.10	1	02/12/11 09:30	02/23/11 06:31	7440-22-4	
Thallium	ND	ug/L	5.5	3.0	1	02/12/11 09:30	02/23/11 06:31	7440-28-0	
Tin	**3.1J**	ug/L	100	1.8	1	02/12/11 09:30	02/23/11 06:31	7440-31-5	
Vanadium	**5.1J**	ug/L	25.0	0.20	1	02/12/11 09:30	02/23/11 06:31	7440-62-2	
Zinc	**11.2**	ug/L	10.0	0.40	1	02/12/11 09:30	02/23/11 06:31	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470		Preparation Method: EPA 7470						
Mercury	ND	ug/L	0.20	0.10	1	02/22/11 16:30	03/01/11 16:49	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	**4.3J**	ug/L	100	2.2	1		02/18/11 17:27	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		02/18/11 17:27	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		02/18/11 17:27	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		02/18/11 17:27	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		02/18/11 17:27	107-05-1	
Benzene	**2.8**	ug/L	1.0	0.25	1		02/18/11 17:27	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/18/11 17:27	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/18/11 17:27	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/18/11 17:27	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/18/11 17:27	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/18/11 17:27	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/18/11 17:27	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/18/11 17:27	56-23-5	
Chlorobenzene	**23.7**	ug/L	3.0	0.23	1		02/18/11 17:27	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/18/11 17:27	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/18/11 17:27	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/18/11 17:27	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		02/18/11 17:27	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/18/11 17:27	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/18/11 17:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/18/11 17:27	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/18/11 17:27	74-95-3	
1,2-Dichlorobenzene	**0.53J**	ug/L	5.0	0.30	1		02/18/11 17:27	95-50-1	
1,3-Dichlorobenzene	**0.39J**	ug/L	5.0	0.24	1		02/18/11 17:27	541-73-1	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF-DUDLEY
Pace Project No.: 9287512

Sample: MW-2 **Lab ID: 9287512002** Collected: 02/08/11 14:00 Received: 02/09/11 16:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**4.8**	ug/L	1.0	0.33	1		02/18/11 17:27	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/18/11 17:27	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		02/18/11 17:27	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/18/11 17:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/18/11 17:27	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/18/11 17:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/18/11 17:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/18/11 17:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/18/11 17:27	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/18/11 17:27	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		02/18/11 17:27	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		02/18/11 17:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/18/11 17:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/18/11 17:27	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/18/11 17:27	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		02/18/11 17:27	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		02/18/11 17:27	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/18/11 17:27	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/18/11 17:27	74-88-4	
Isobutanol	**143**	ug/L	100	35.0	1		02/18/11 17:27	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		02/18/11 17:27	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/18/11 17:27	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		02/18/11 17:27	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/18/11 17:27	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		02/18/11 17:27	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		02/18/11 17:27	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		02/18/11 17:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/18/11 17:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/18/11 17:27	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/18/11 17:27	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/18/11 17:27	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		02/18/11 17:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/18/11 17:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/18/11 17:27	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/18/11 17:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/18/11 17:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/18/11 17:27	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/18/11 17:27	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/18/11 17:27	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/18/11 17:27	1330-20-7	
4-Bromofluorobenzene (S)	98	%	70-130		1		02/18/11 17:27	460-00-4	
Dibromofluoromethane (S)	116	%	70-130		1		02/18/11 17:27	1868-53-7	
1,2-Dichloroethane-d4 (S)	113	%	70-130		1		02/18/11 17:27	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		02/18/11 17:27	2037-26-5	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF-DUDLEY
Pace Project No.: 9287512

Sample: MW-2 **Lab ID: 9287512002** Collected: 02/08/11 14:00 Received: 02/09/11 16:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**552000**	ug/L	5000	5000	1		02/16/11 16:00		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		02/11/11 19:00	18496-25-8	
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	**6150**	ug/L	2000	2000	1	02/10/11 12:27	02/15/11 10:45		B4
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**85800**	ug/L	25000	25000	5		02/21/11 18:22	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	ug/L	10000	100	1		02/09/11 22:22		M1
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**82700**	ug/L	50000	50000	10		02/24/11 00:34	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E								
Cyanide	**6.0J**	ug/L	10.0	5.0	1		02/20/11 11:43	57-12-5	
5220D COD	Analytical Method: SM 5220D								
Chemical Oxygen Demand	**123000**	ug/L	25000	25000	1		02/21/11 15:29		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**50100**	ug/L	2000	2000	2		02/21/11 18:09	7440-44-0	M1

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF-DUDLEY
Pace Project No.: 9287512

Sample: MW-8 **Lab ID: 9287512003** Collected: 02/08/11 16:00 Received: 02/09/11 16:40 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	2.6	1	02/12/11 09:30	02/23/11 06:45	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	02/12/11 09:30	02/23/11 06:45	7440-38-2	
Barium	**95.7J**	ug/L	100	0.20	1	02/12/11 09:30	02/23/11 06:45	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	02/12/11 09:30	02/23/11 06:45	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	02/12/11 09:30	02/23/11 06:45	7440-43-9	
Chromium	**2.1J**	ug/L	10.0	0.40	1	02/12/11 09:30	02/23/11 06:45	7440-47-3	
Cobalt	**6.1J**	ug/L	10.0	0.60	1	02/12/11 09:30	02/23/11 06:45	7440-48-4	
Copper	**0.90J**	ug/L	10.0	0.30	1	02/12/11 09:30	02/23/11 06:45	7440-50-8	
Iron	**1620**	ug/L	300	14.0	1	02/12/11 09:30	02/23/11 06:45	7439-89-6	
Lead	ND	ug/L	10.0	4.0	1	02/12/11 09:30	02/23/11 06:45	7439-92-1	
Nickel	ND	ug/L	50.0	1.7	1	02/12/11 09:30	02/23/11 06:45	7440-02-0	
Selenium	**4.8J**	ug/L	10.0	3.8	1	02/12/11 09:30	02/23/11 06:45	7782-49-2	
Silver	**0.10J**	ug/L	10.0	0.10	1	02/12/11 09:30	02/23/11 06:45	7440-22-4	
Thallium	**3.8J**	ug/L	5.5	3.0	1	02/12/11 09:30	02/23/11 06:45	7440-28-0	
Vanadium	**2.3J**	ug/L	25.0	0.20	1	02/12/11 09:30	02/23/11 06:45	7440-62-2	
Zinc	**6.3J**	ug/L	10.0	0.40	1	02/12/11 09:30	02/23/11 06:45	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		02/18/11 17:52	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/18/11 17:52	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/18/11 17:52	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/18/11 17:52	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/18/11 17:52	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/18/11 17:52	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/18/11 17:52	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/18/11 17:52	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/18/11 17:52	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/18/11 17:52	56-23-5	
Chlorobenzene	**0.36J**	ug/L	3.0	0.23	1		02/18/11 17:52	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/18/11 17:52	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/18/11 17:52	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/18/11 17:52	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/18/11 17:52	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/18/11 17:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/18/11 17:52	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/18/11 17:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/18/11 17:52	95-50-1	
1,4-Dichlorobenzene	**1.6**	ug/L	1.0	0.33	1		02/18/11 17:52	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/18/11 17:52	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/18/11 17:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/18/11 17:52	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/18/11 17:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/18/11 17:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/18/11 17:52	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/18/11 17:52	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/18/11 17:52	142-28-9	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF-DUDLEY
Pace Project No.: 9287512

Sample: MW-8 **Lab ID: 9287512003** Collected: 02/08/11 16:00 Received: 02/09/11 16:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/18/11 17:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/18/11 17:52	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/18/11 17:52	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/18/11 17:52	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/18/11 17:52	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/18/11 17:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/18/11 17:52	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/18/11 17:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/18/11 17:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/18/11 17:52	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/18/11 17:52	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/18/11 17:52	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/18/11 17:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/18/11 17:52	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/18/11 17:52	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/18/11 17:52	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/18/11 17:52	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/18/11 17:52	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/18/11 17:52	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/18/11 17:52	1330-20-7	
4-Bromofluorobenzene (S)	99	%	70-130		1		02/18/11 17:52	460-00-4	
Dibromofluoromethane (S)	114	%	70-130		1		02/18/11 17:52	1868-53-7	
1,2-Dichloroethane-d4 (S)	116	%	70-130		1		02/18/11 17:52	17060-07-0	
Toluene-d8 (S)	96	%	70-130		1		02/18/11 17:52	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	ND	ug/L	5000	5000	1		02/16/11 16:00		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		02/11/11 19:00	18496-25-8	
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	ND	ug/L	2000	2000	1	02/10/11 12:27	02/15/11 10:45		B4
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	ND	ug/L	5000	5000	1		02/22/11 13:52	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**794J**	ug/L	10000	100	1		02/09/11 22:42		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**9510**	ug/L	5000	5000	1		02/23/11 20:50	16887-00-6	
5220D COD	Analytical Method: SM 5220D								
Chemical Oxygen Demand	ND	ug/L	25000	25000	1		02/21/11 15:29		

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF-DUDLEY
Pace Project No.: 9287512

Sample: MW-8 **Lab ID: 9287512003** Collected: 02/08/11 16:00 Received: 02/09/11 16:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**17500**	ug/L	1000	1000	1		02/15/11 16:08	7440-44-0	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF-DUDLEY
Pace Project No.: 9287512

Sample: MW-4 **Lab ID: 9287512004** Collected: 02/08/11 12:40 Received: 02/09/11 16:40 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	2.6	1	02/12/11 09:30	02/23/11 06:48	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	02/12/11 09:30	02/23/11 06:48	7440-38-2	
Barium	**118**	ug/L	100	0.20	1	02/12/11 09:30	02/23/11 06:48	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	02/12/11 09:30	02/23/11 06:48	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	02/12/11 09:30	02/23/11 06:48	7440-43-9	
Chromium	**0.77J**	ug/L	10.0	0.40	1	02/12/11 09:30	02/23/11 06:48	7440-47-3	
Cobalt	**4.8J**	ug/L	10.0	0.60	1	02/12/11 09:30	02/23/11 06:48	7440-48-4	
Copper	**1.4J**	ug/L	10.0	0.30	1	02/12/11 09:30	02/23/11 06:48	7440-50-8	
Lead	ND	ug/L	10.0	4.0	1	02/12/11 09:30	02/23/11 06:48	7439-92-1	
Nickel	ND	ug/L	50.0	1.7	1	02/12/11 09:30	02/23/11 06:48	7440-02-0	
Selenium	**5.3J**	ug/L	10.0	3.8	1	02/12/11 09:30	02/23/11 06:48	7782-49-2	
Silver	ND	ug/L	10.0	0.10	1	02/12/11 09:30	02/23/11 06:48	7440-22-4	
Thallium	ND	ug/L	5.5	3.0	1	02/12/11 09:30	02/23/11 06:48	7440-28-0	
Tin	ND	ug/L	100	1.8	1	02/12/11 09:30	02/23/11 06:48	7440-31-5	
Vanadium	ND	ug/L	25.0	0.20	1	02/12/11 09:30	02/23/11 06:48	7440-62-2	
Zinc	**5.7J**	ug/L	10.0	0.40	1	02/12/11 09:30	02/23/11 06:48	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	02/22/11 16:30	03/01/11 16:51	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		02/18/11 18:17	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/18/11 18:17	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/18/11 18:17	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/18/11 18:17	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/18/11 18:17	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/18/11 18:17	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/18/11 18:17	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/18/11 18:17	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/18/11 18:17	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/18/11 18:17	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/18/11 18:17	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/18/11 18:17	75-00-3	
Chloroform	**0.21J**	ug/L	5.0	0.14	1		02/18/11 18:17	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/18/11 18:17	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/18/11 18:17	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/18/11 18:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/18/11 18:17	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/18/11 18:17	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/18/11 18:17	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/18/11 18:17	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/18/11 18:17	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/18/11 18:17	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/18/11 18:17	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/18/11 18:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/18/11 18:17	156-59-2	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF-DUDLEY
Pace Project No.: 9287512

Sample: MW-4 **Lab ID: 9287512004** Collected: 02/08/11 12:40 Received: 02/09/11 16:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/18/11 18:17	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/18/11 18:17	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/18/11 18:17	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/18/11 18:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/18/11 18:17	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/18/11 18:17	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/18/11 18:17	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/18/11 18:17	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/18/11 18:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/18/11 18:17	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/18/11 18:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/18/11 18:17	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/18/11 18:17	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/18/11 18:17	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/18/11 18:17	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/18/11 18:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/18/11 18:17	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/18/11 18:17	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/18/11 18:17	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/18/11 18:17	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/18/11 18:17	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/18/11 18:17	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/18/11 18:17	1330-20-7	
4-Bromofluorobenzene (S)	98	%	70-130		1		02/18/11 18:17	460-00-4	
Dibromofluoromethane (S)	118	%	70-130		1		02/18/11 18:17	1868-53-7	
1,2-Dichloroethane-d4 (S)	118	%	70-130		1		02/18/11 18:17	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		02/18/11 18:17	2037-26-5	
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		02/11/11 19:00	18496-25-8	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF-DUDLEY
Pace Project No.: 9287512

Sample: MW-3 **Lab ID: 9287512005** Collected: 02/09/11 11:15 Received: 02/10/11 15:43 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	2.6	1	02/12/11 09:45	02/24/11 21:16	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	02/12/11 09:45	02/24/11 21:16	7440-38-2	
Barium	**16.1J**	ug/L	100	0.20	1	02/12/11 09:45	02/24/11 21:16	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	02/12/11 09:45	02/24/11 21:16	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	02/12/11 09:45	02/24/11 21:16	7440-43-9	
Chromium	ND	ug/L	10.0	0.40	1	02/12/11 09:45	02/24/11 21:16	7440-47-3	
Cobalt	**4.0J**	ug/L	10.0	0.60	1	02/12/11 09:45	02/24/11 21:16	7440-48-4	
Copper	ND	ug/L	10.0	0.30	1	02/12/11 09:45	02/24/11 21:16	7440-50-8	
Lead	ND	ug/L	10.0	4.0	1	02/12/11 09:45	02/24/11 21:16	7439-92-1	
Nickel	ND	ug/L	50.0	1.7	1	02/12/11 09:45	02/24/11 21:16	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	02/12/11 09:45	02/24/11 21:16	7782-49-2	
Silver	ND	ug/L	10.0	0.10	1	02/12/11 09:45	02/24/11 21:16	7440-22-4	
Thallium	ND	ug/L	5.5	3.0	1	02/12/11 09:45	02/24/11 21:16	7440-28-0	
Vanadium	ND	ug/L	25.0	0.20	1	02/12/11 09:45	02/24/11 21:16	7440-62-2	
Zinc	**5.4J**	ug/L	10.0	0.40	1	02/12/11 09:45	02/24/11 21:16	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		02/18/11 18:43	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/18/11 18:43	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/18/11 18:43	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/18/11 18:43	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/18/11 18:43	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/18/11 18:43	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/18/11 18:43	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/18/11 18:43	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/18/11 18:43	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/18/11 18:43	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/18/11 18:43	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/18/11 18:43	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/18/11 18:43	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/18/11 18:43	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/18/11 18:43	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/18/11 18:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/18/11 18:43	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/18/11 18:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/18/11 18:43	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/18/11 18:43	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/18/11 18:43	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/18/11 18:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/18/11 18:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/18/11 18:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/18/11 18:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/18/11 18:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/18/11 18:43	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/18/11 18:43	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/18/11 18:43	10061-01-5	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF-DUDLEY
Pace Project No.: 9287512

Sample: MW-3 **Lab ID: 9287512005** Collected: 02/09/11 11:15 Received: 02/10/11 15:43 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		02/18/11 18:43	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/18/11 18:43	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/18/11 18:43	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/18/11 18:43	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/18/11 18:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/18/11 18:43	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/18/11 18:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/18/11 18:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/18/11 18:43	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/18/11 18:43	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/18/11 18:43	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/18/11 18:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/18/11 18:43	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/18/11 18:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/18/11 18:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/18/11 18:43	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/18/11 18:43	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/18/11 18:43	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/18/11 18:43	1330-20-7	
4-Bromofluorobenzene (S)	98	%	70-130		1		02/18/11 18:43	460-00-4	
Dibromofluoromethane (S)	119	%	70-130		1		02/18/11 18:43	1868-53-7	
1,2-Dichloroethane-d4 (S)	118	%	70-130		1		02/18/11 18:43	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		02/18/11 18:43	2037-26-5	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF-DUDLEY
Pace Project No.: 9287512

Sample: MW-5 **Lab ID: 9287512006** Collected: 02/09/11 14:05 Received: 02/10/11 15:43 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	2.6	1	02/12/11 09:45	02/24/11 21:19	7440-36-0	
Arsenic	**5.7J**	ug/L	10.0	2.7	1	02/12/11 09:45	02/24/11 21:19	7440-38-2	
Barium	**54.2J**	ug/L	100	0.20	1	02/12/11 09:45	02/24/11 21:19	7440-39-3	
Beryllium	**1.4**	ug/L	1.0	0.10	1	02/12/11 09:45	02/24/11 21:19	7440-41-7	
Cadmium	**4.4**	ug/L	1.0	0.50	1	02/12/11 09:45	02/24/11 21:19	7440-43-9	
Chromium	**3.5J**	ug/L	10.0	0.40	1	02/12/11 09:45	02/24/11 21:19	7440-47-3	
Cobalt	**23.1**	ug/L	10.0	0.60	1	02/12/11 09:45	02/24/11 21:19	7440-48-4	
Copper	ND	ug/L	10.0	0.30	1	02/12/11 09:45	02/24/11 21:19	7440-50-8	
Lead	**4.4J**	ug/L	10.0	4.0	1	02/12/11 09:45	02/24/11 21:19	7439-92-1	
Nickel	**5.3J**	ug/L	50.0	1.7	1	02/12/11 09:45	02/24/11 21:19	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	02/12/11 09:45	02/24/11 21:19	7782-49-2	
Silver	ND	ug/L	10.0	0.10	1	02/12/11 09:45	02/24/11 21:19	7440-22-4	
Thallium	ND	ug/L	5.5	3.0	1	02/12/11 09:45	02/24/11 21:19	7440-28-0	
Vanadium	**59.1**	ug/L	25.0	0.20	1	02/12/11 09:45	02/24/11 21:19	7440-62-2	
Zinc	**31.3**	ug/L	10.0	0.40	1	02/12/11 09:45	02/24/11 21:19	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		02/18/11 19:08	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/18/11 19:08	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/18/11 19:08	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/18/11 19:08	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/18/11 19:08	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/18/11 19:08	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/18/11 19:08	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/18/11 19:08	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/18/11 19:08	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/18/11 19:08	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/18/11 19:08	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/18/11 19:08	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/18/11 19:08	67-66-3	
Chloromethane	**0.14J**	ug/L	1.0	0.11	1		02/18/11 19:08	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/18/11 19:08	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/18/11 19:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/18/11 19:08	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/18/11 19:08	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/18/11 19:08	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/18/11 19:08	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/18/11 19:08	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/18/11 19:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/18/11 19:08	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/18/11 19:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/18/11 19:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/18/11 19:08	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/18/11 19:08	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/18/11 19:08	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/18/11 19:08	10061-01-5	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF-DUDLEY
Pace Project No.: 9287512

Sample: MW-5 **Lab ID: 9287512006** Collected: 02/09/11 14:05 Received: 02/10/11 15:43 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		02/18/11 19:08	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/18/11 19:08	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/18/11 19:08	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/18/11 19:08	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/18/11 19:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/18/11 19:08	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/18/11 19:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/18/11 19:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/18/11 19:08	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/18/11 19:08	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/18/11 19:08	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/18/11 19:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/18/11 19:08	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/18/11 19:08	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/18/11 19:08	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/18/11 19:08	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/18/11 19:08	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/18/11 19:08	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/18/11 19:08	1330-20-7	
4-Bromofluorobenzene (S)	98	%	70-130		1		02/18/11 19:08	460-00-4	
Dibromofluoromethane (S)	117	%	70-130		1		02/18/11 19:08	1868-53-7	
1,2-Dichloroethane-d4 (S)	119	%	70-130		1		02/18/11 19:08	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		02/18/11 19:08	2037-26-5	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF-DUDLEY
Pace Project No.: 9287512

Sample: MW-6 **Lab ID: 9287512007** Collected: 02/09/11 10:20 Received: 02/10/11 15:43 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	2.6	1	02/12/11 09:45	02/24/11 21:23	7440-36-0	
Arsenic	**3.7J**	ug/L	10.0	2.7	1	02/12/11 09:45	02/24/11 21:23	7440-38-2	
Barium	**225**	ug/L	100	0.20	1	02/12/11 09:45	02/24/11 21:23	7440-39-3	
Beryllium	**0.55J**	ug/L	1.0	0.10	1	02/12/11 09:45	02/24/11 21:23	7440-41-7	
Cadmium	**0.88J**	ug/L	1.0	0.50	1	02/12/11 09:45	02/24/11 21:23	7440-43-9	
Chromium	**0.98J**	ug/L	10.0	0.40	1	02/12/11 09:45	02/24/11 21:23	7440-47-3	
Cobalt	ND	ug/L	10.0	0.60	1	02/12/11 09:45	02/24/11 21:23	7440-48-4	
Copper	**0.43J**	ug/L	10.0	0.30	1	02/12/11 09:45	02/24/11 21:23	7440-50-8	
Lead	ND	ug/L	10.0	4.0	1	02/12/11 09:45	02/24/11 21:23	7439-92-1	
Nickel	**3.6J**	ug/L	50.0	1.7	1	02/12/11 09:45	02/24/11 21:23	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	02/12/11 09:45	02/24/11 21:23	7782-49-2	
Silver	ND	ug/L	10.0	0.10	1	02/12/11 09:45	02/24/11 21:23	7440-22-4	
Thallium	ND	ug/L	5.5	3.0	1	02/12/11 09:45	02/24/11 21:23	7440-28-0	
Vanadium	ND	ug/L	25.0	0.20	1	02/12/11 09:45	02/24/11 21:23	7440-62-2	
Zinc	**8.1J**	ug/L	10.0	0.40	1	02/12/11 09:45	02/24/11 21:23	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		02/18/11 19:34	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/18/11 19:34	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/18/11 19:34	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/18/11 19:34	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/18/11 19:34	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/18/11 19:34	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/18/11 19:34	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/18/11 19:34	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/18/11 19:34	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/18/11 19:34	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/18/11 19:34	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/18/11 19:34	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/18/11 19:34	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/18/11 19:34	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/18/11 19:34	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/18/11 19:34	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/18/11 19:34	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/18/11 19:34	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/18/11 19:34	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/18/11 19:34	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/18/11 19:34	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/18/11 19:34	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/18/11 19:34	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/18/11 19:34	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/18/11 19:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/18/11 19:34	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/18/11 19:34	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/18/11 19:34	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/18/11 19:34	10061-01-5	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF-DUDLEY
Pace Project No.: 9287512

Sample: MW-6 **Lab ID: 9287512007** Collected: 02/09/11 10:20 Received: 02/10/11 15:43 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		02/18/11 19:34	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/18/11 19:34	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/18/11 19:34	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/18/11 19:34	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/18/11 19:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/18/11 19:34	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/18/11 19:34	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/18/11 19:34	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/18/11 19:34	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/18/11 19:34	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/18/11 19:34	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/18/11 19:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/18/11 19:34	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/18/11 19:34	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/18/11 19:34	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/18/11 19:34	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/18/11 19:34	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/18/11 19:34	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/18/11 19:34	1330-20-7	
4-Bromofluorobenzene (S)	98	%	70-130		1		02/18/11 19:34	460-00-4	
Dibromofluoromethane (S)	121	%	70-130		1		02/18/11 19:34	1868-53-7	
1,2-Dichloroethane-d4 (S)	120	%	70-130		1		02/18/11 19:34	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		02/18/11 19:34	2037-26-5	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF-DUDLEY
Pace Project No.: 9287512

Sample: MW-7 **Lab ID: 9287512008** Collected: 02/09/11 09:45 Received: 02/10/11 15:43 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	2.6	1	02/12/11 09:45	02/24/11 21:26	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	02/12/11 09:45	02/24/11 21:26	7440-38-2	
Barium	**68.0J**	ug/L	100	0.20	1	02/12/11 09:45	02/24/11 21:26	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	02/12/11 09:45	02/24/11 21:26	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	02/12/11 09:45	02/24/11 21:26	7440-43-9	
Chromium	**1.8J**	ug/L	10.0	0.40	1	02/12/11 09:45	02/24/11 21:26	7440-47-3	
Cobalt	**5.8J**	ug/L	10.0	0.60	1	02/12/11 09:45	02/24/11 21:26	7440-48-4	
Copper	**1.3J**	ug/L	10.0	0.30	1	02/12/11 09:45	02/24/11 21:26	7440-50-8	
Lead	ND	ug/L	10.0	4.0	1	02/12/11 09:45	02/24/11 21:26	7439-92-1	
Nickel	ND	ug/L	50.0	1.7	1	02/12/11 09:45	02/24/11 21:26	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	02/12/11 09:45	02/24/11 21:26	7782-49-2	
Silver	ND	ug/L	10.0	0.10	1	02/12/11 09:45	02/24/11 21:26	7440-22-4	
Thallium	ND	ug/L	5.5	3.0	1	02/12/11 09:45	02/24/11 21:26	7440-28-0	
Vanadium	**2.2J**	ug/L	25.0	0.20	1	02/12/11 09:45	02/24/11 21:26	7440-62-2	
Zinc	**8.6J**	ug/L	10.0	0.40	1	02/12/11 09:45	02/24/11 21:26	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		02/18/11 19:59	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/18/11 19:59	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/18/11 19:59	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/18/11 19:59	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/18/11 19:59	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/18/11 19:59	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/18/11 19:59	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/18/11 19:59	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/18/11 19:59	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/18/11 19:59	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/18/11 19:59	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/18/11 19:59	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/18/11 19:59	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/18/11 19:59	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/18/11 19:59	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/18/11 19:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/18/11 19:59	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/18/11 19:59	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/18/11 19:59	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/18/11 19:59	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/18/11 19:59	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/18/11 19:59	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/18/11 19:59	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/18/11 19:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/18/11 19:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/18/11 19:59	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/18/11 19:59	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/18/11 19:59	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/18/11 19:59	10061-01-5	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF-DUDLEY
Pace Project No.: 9287512

Sample: MW-7 **Lab ID: 9287512008** Collected: 02/09/11 09:45 Received: 02/10/11 15:43 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		02/18/11 19:59	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/18/11 19:59	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/18/11 19:59	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/18/11 19:59	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/18/11 19:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/18/11 19:59	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/18/11 19:59	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/18/11 19:59	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/18/11 19:59	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/18/11 19:59	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/18/11 19:59	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/18/11 19:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/18/11 19:59	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/18/11 19:59	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/18/11 19:59	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/18/11 19:59	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/18/11 19:59	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/18/11 19:59	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/18/11 19:59	1330-20-7	
4-Bromofluorobenzene (S)	99	%	70-130		1		02/18/11 19:59	460-00-4	
Dibromofluoromethane (S)	115	%	70-130		1		02/18/11 19:59	1868-53-7	
1,2-Dichloroethane-d4 (S)	119	%	70-130		1		02/18/11 19:59	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		02/18/11 19:59	2037-26-5	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF-DUDLEY
Pace Project No.: 9287512

Sample: MW-9 **Lab ID: 9287512009** Collected: 02/09/11 12:00 Received: 02/10/11 15:43 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	2.2	1		02/18/11 20:24	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/18/11 20:24	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/18/11 20:24	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/18/11 20:24	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/18/11 20:24	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/18/11 20:24	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/18/11 20:24	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/18/11 20:24	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/18/11 20:24	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/18/11 20:24	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/18/11 20:24	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/18/11 20:24	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/18/11 20:24	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/18/11 20:24	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/18/11 20:24	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/18/11 20:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/18/11 20:24	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/18/11 20:24	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/18/11 20:24	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/18/11 20:24	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/18/11 20:24	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/18/11 20:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/18/11 20:24	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/18/11 20:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/18/11 20:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/18/11 20:24	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/18/11 20:24	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/18/11 20:24	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/18/11 20:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/18/11 20:24	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/18/11 20:24	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/18/11 20:24	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/18/11 20:24	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/18/11 20:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/18/11 20:24	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/18/11 20:24	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/18/11 20:24	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/18/11 20:24	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/18/11 20:24	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/18/11 20:24	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/18/11 20:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/18/11 20:24	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/18/11 20:24	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/18/11 20:24	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/18/11 20:24	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/18/11 20:24	108-05-4	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF-DUDLEY
Pace Project No.: 9287512

Sample: MW-9 **Lab ID: 9287512009** Collected: 02/09/11 12:00 Received: 02/10/11 15:43 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/18/11 20:24	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/18/11 20:24	1330-20-7	
4-Bromofluorobenzene (S)	99	%	70-130		1		02/18/11 20:24	460-00-4	
Dibromofluoromethane (S)	119	%	70-130		1		02/18/11 20:24	1868-53-7	
1,2-Dichloroethane-d4 (S)	119	%	70-130		1		02/18/11 20:24	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		02/18/11 20:24	2037-26-5	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF-DUDLEY
Pace Project No.: 9287512

Sample: MW-10 **Lab ID: 9287512010** Collected: 02/09/11 13:35 Received: 02/10/11 15:43 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	2.2	1		02/18/11 20:50	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/18/11 20:50	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/18/11 20:50	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/18/11 20:50	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/18/11 20:50	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/18/11 20:50	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/18/11 20:50	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/18/11 20:50	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/18/11 20:50	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/18/11 20:50	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/18/11 20:50	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/18/11 20:50	75-00-3	
Chloroform	**0.58J**	ug/L	5.0	0.14	1		02/18/11 20:50	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/18/11 20:50	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/18/11 20:50	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/18/11 20:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/18/11 20:50	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/18/11 20:50	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/18/11 20:50	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/18/11 20:50	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/18/11 20:50	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/18/11 20:50	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/18/11 20:50	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/18/11 20:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/18/11 20:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/18/11 20:50	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/18/11 20:50	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/18/11 20:50	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/18/11 20:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/18/11 20:50	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/18/11 20:50	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/18/11 20:50	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/18/11 20:50	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/18/11 20:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/18/11 20:50	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/18/11 20:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/18/11 20:50	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/18/11 20:50	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/18/11 20:50	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/18/11 20:50	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/18/11 20:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/18/11 20:50	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/18/11 20:50	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/18/11 20:50	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/18/11 20:50	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/18/11 20:50	108-05-4	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF-DUDLEY
Pace Project No.: 9287512

Sample: MW-10 **Lab ID: 9287512010** Collected: 02/09/11 13:35 Received: 02/10/11 15:43 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/18/11 20:50	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/18/11 20:50	1330-20-7	
4-Bromofluorobenzene (S)	97	%	70-130		1		02/18/11 20:50	460-00-4	
Dibromofluoromethane (S)	115	%	70-130		1		02/18/11 20:50	1868-53-7	
1,2-Dichloroethane-d4 (S)	118	%	70-130		1		02/18/11 20:50	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		02/18/11 20:50	2037-26-5	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF-DUDLEY
Pace Project No.: 9287512

Sample: MW-11 **Lab ID: 9287512011** Collected: 02/09/11 14:40 Received: 02/10/11 15:43 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	2.2	1		02/18/11 21:15	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		02/18/11 21:15	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		02/18/11 21:15	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		02/18/11 21:15	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		02/18/11 21:15	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		02/18/11 21:15	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/18/11 21:15	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/18/11 21:15	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/18/11 21:15	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/18/11 21:15	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/18/11 21:15	78-93-3	
Carbon disulfide	**1.6J**	ug/L	100	1.2	1		02/18/11 21:15	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/18/11 21:15	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/18/11 21:15	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/18/11 21:15	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/18/11 21:15	67-66-3	
Chloromethane	**1.2**	ug/L	1.0	0.11	1		02/18/11 21:15	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		02/18/11 21:15	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/18/11 21:15	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/18/11 21:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/18/11 21:15	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/18/11 21:15	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/18/11 21:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		02/18/11 21:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/18/11 21:15	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/18/11 21:15	110-57-6	
Dichlorodifluoromethane	**0.79J**	ug/L	5.0	0.21	1		02/18/11 21:15	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/18/11 21:15	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/18/11 21:15	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/18/11 21:15	75-35-4	
cis-1,2-Dichloroethene	**0.32J**	ug/L	5.0	0.19	1		02/18/11 21:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/18/11 21:15	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/18/11 21:15	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/18/11 21:15	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		02/18/11 21:15	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		02/18/11 21:15	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/18/11 21:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/18/11 21:15	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/18/11 21:15	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		02/18/11 21:15	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		02/18/11 21:15	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/18/11 21:15	591-78-6	
Iodomethane	**2.2J**	ug/L	10.0	0.32	1		02/18/11 21:15	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		02/18/11 21:15	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		02/18/11 21:15	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/18/11 21:15	75-09-2	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF-DUDLEY
Pace Project No.: 9287512

Sample: MW-11 **Lab ID: 9287512011** Collected: 02/09/11 14:40 Received: 02/10/11 15:43 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		02/18/11 21:15	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/18/11 21:15	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		02/18/11 21:15	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		02/18/11 21:15	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		02/18/11 21:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/18/11 21:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/18/11 21:15	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/18/11 21:15	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/18/11 21:15	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		02/18/11 21:15	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/18/11 21:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/18/11 21:15	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/18/11 21:15	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/18/11 21:15	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/18/11 21:15	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/18/11 21:15	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/18/11 21:15	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/18/11 21:15	1330-20-7	
4-Bromofluorobenzene (S)	97	%	70-130		1		02/18/11 21:15	460-00-4	
Dibromofluoromethane (S)	117	%	70-130		1		02/18/11 21:15	1868-53-7	
1,2-Dichloroethane-d4 (S)	122	%	70-130		1		02/18/11 21:15	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		02/18/11 21:15	2037-26-5	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF-DUDLEY
Pace Project No.: 9287512

QC Batch: MPRP/7865 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 9287512001, 9287512002, 9287512003, 9287512004

METHOD BLANK: 562887 Matrix: Water
Associated Lab Samples: 9287512001, 9287512002, 9287512003, 9287512004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	6.0	02/23/11 05:42	
Arsenic	ug/L	ND	10.0	02/23/11 05:42	
Barium	ug/L	0.26J	100	02/23/11 05:42	
Beryllium	ug/L	ND	1.0	02/23/11 05:42	
Cadmium	ug/L	ND	1.0	02/23/11 05:42	
Chromium	ug/L	ND	10.0	02/23/11 05:42	
Cobalt	ug/L	ND	10.0	02/23/11 05:42	
Copper	ug/L	ND	10.0	02/23/11 05:42	
Iron	ug/L	27.4J	300	02/23/11 05:42	
Lead	ug/L	ND	10.0	02/23/11 05:42	
Nickel	ug/L	ND	50.0	02/23/11 05:42	
Selenium	ug/L	ND	10.0	02/23/11 05:42	
Silver	ug/L	ND	10.0	02/23/11 05:42	
Thallium	ug/L	ND	5.5	02/23/11 05:42	
Tin	ug/L	ND	100	02/23/11 05:42	
Vanadium	ug/L	ND	25.0	02/23/11 05:42	
Zinc	ug/L	3.7J	10.0	02/23/11 05:42	

LABORATORY CONTROL SAMPLE: 562888

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	477	95	80-120	
Arsenic	ug/L	500	474	95	80-120	
Barium	ug/L	500	485	97	80-120	
Beryllium	ug/L	500	483	97	80-120	
Cadmium	ug/L	500	474	95	80-120	
Chromium	ug/L	500	463	93	80-120	
Cobalt	ug/L	500	478	96	80-120	
Copper	ug/L	500	481	96	80-120	
Iron	ug/L	5000	4870	97	80-120	
Lead	ug/L	500	483	97	80-120	
Nickel	ug/L	500	477	95	80-120	
Selenium	ug/L	500	470	94	80-120	
Silver	ug/L	250	244	98	80-120	
Thallium	ug/L	500	472	94	80-120	
Tin	ug/L	500	481	96	80-120	
Vanadium	ug/L	500	471	94	80-120	
Zinc	ug/L	500	468	94	80-120	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF-DUDLEY
Pace Project No.: 9287512

MATRIX SPIKE SAMPLE: 562889

Parameter	Units	9287361001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	473	95	75-125	
Arsenic	ug/L	ND	500	478	96	75-125	
Barium	ug/L	70.5	500	542	94	75-125	
Beryllium	ug/L	ND	500	473	95	75-125	
Cadmium	ug/L	ND	500	462	92	75-125	
Chromium	ug/L	7.9	500	461	91	75-125	
Cobalt	ug/L	ND	500	467	93	75-125	
Copper	ug/L	0.30J	500	479	96	75-125	
Iron	ug/L	23.6J	5000	4820	96	75-125	
Lead	ug/L	ND	500	461	92	75-125	
Nickel	ug/L	ND	500	464	93	75-125	
Selenium	ug/L	ND	500	476	95	75-125	
Silver	ug/L	0.66J	250	240	96	75-125	
Thallium	ug/L	ND	500	462	92	75-125	
Tin	ug/L	ND	500	476	95	75-125	
Vanadium	ug/L	0.82J	500	467	93	75-125	
Zinc	ug/L	3.6J	500	462	92	75-125	

SAMPLE DUPLICATE: 562890

Parameter	Units	9287361002 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	ND	ND		25	
Arsenic	ug/L	3.3J	ND		25	
Barium	ug/L	61.0	62.6J	3	25	
Beryllium	ug/L	ND	ND		25	
Cadmium	ug/L	ND	ND		25	
Chromium	ug/L	0.74J	0.43J		25	
Cobalt	ug/L	4.9J	ND		25	
Copper	ug/L	ND	ND		25	
Iron	ug/L	ND	ND		25	
Lead	ug/L	ND	ND		25	
Nickel	ug/L	ND	ND		25	
Selenium	ug/L	31.8	29.0	9	25	
Silver	ug/L	1.7J	1.7J		25	
Thallium	ug/L	8.6	4.2J		25	
Tin	ug/L	1.8J	ND		25	
Vanadium	ug/L	0.22J	ND		25	
Zinc	ug/L	3.9J	3.6J		25	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF-DUDLEY
Pace Project No.: 9287512

QC Batch: MPRP/7866 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 9287512005, 9287512006, 9287512007, 9287512008

METHOD BLANK: 562891 Matrix: Water
Associated Lab Samples: 9287512005, 9287512006, 9287512007, 9287512008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	6.0	02/24/11 19:59	
Arsenic	ug/L	2.9J	10.0	02/24/11 19:59	
Barium	ug/L	ND	100	02/24/11 19:59	
Beryllium	ug/L	ND	1.0	02/24/11 19:59	
Cadmium	ug/L	ND	1.0	02/24/11 19:59	
Chromium	ug/L	ND	10.0	02/24/11 19:59	
Cobalt	ug/L	3.6J	10.0	02/24/11 19:59	
Copper	ug/L	ND	10.0	02/24/11 19:59	
Lead	ug/L	ND	10.0	02/24/11 19:59	
Nickel	ug/L	ND	50.0	02/24/11 19:59	
Selenium	ug/L	ND	10.0	02/24/11 19:59	
Silver	ug/L	ND	10.0	02/24/11 19:59	
Thallium	ug/L	ND	5.5	02/24/11 19:59	
Vanadium	ug/L	ND	25.0	02/24/11 19:59	
Zinc	ug/L	2.6J	10.0	02/24/11 19:59	

LABORATORY CONTROL SAMPLE: 562892

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	494	99	80-120	
Arsenic	ug/L	500	489	98	80-120	
Barium	ug/L	500	495	99	80-120	
Beryllium	ug/L	500	507	101	80-120	
Cadmium	ug/L	500	505	101	80-120	
Chromium	ug/L	500	496	99	80-120	
Cobalt	ug/L	500	500	100	80-120	
Copper	ug/L	500	492	98	80-120	
Lead	ug/L	500	498	100	80-120	
Nickel	ug/L	500	500	100	80-120	
Selenium	ug/L	500	479	96	80-120	
Silver	ug/L	250	251	100	80-120	
Thallium	ug/L	500	470	94	80-120	
Vanadium	ug/L	500	495	99	80-120	
Zinc	ug/L	500	492	98	80-120	

MATRIX SPIKE SAMPLE: 562893

Parameter	Units	9287515009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	480	96	75-125	
Arsenic	ug/L	ND	500	482	96	75-125	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF-DUDLEY
Pace Project No.: 9287512

MATRIX SPIKE SAMPLE: 562893

Parameter	Units	9287515009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	34.4J	500	513	96	75-125	
Beryllium	ug/L	ND	500	497	99	75-125	
Cadmium	ug/L	ND	500	491	98	75-125	
Chromium	ug/L	0.74J	500	484	97	75-125	
Cobalt	ug/L	ND	500	484	97	75-125	
Copper	ug/L	0.52J	500	480	96	75-125	
Lead	ug/L	ND	500	478	96	75-125	
Nickel	ug/L	ND	500	485	97	75-125	
Selenium	ug/L	ND	500	476	95	75-125	
Silver	ug/L	ND	250	246	98	75-125	
Thallium	ug/L	ND	500	457	91	75-125	
Vanadium	ug/L	0.86J	500	484	97	75-125	
Zinc	ug/L	1.5J	500	480	96	75-125	

SAMPLE DUPLICATE: 562894

Parameter	Units	9287515010 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	ND	ND		25	
Arsenic	ug/L	3.2J	3.2J		25	
Barium	ug/L	32.8J	33.9J	3	25	
Beryllium	ug/L	0.17J	0.16J		25	
Cadmium	ug/L	ND	ND		25	
Chromium	ug/L	1.7J	2.1J		25	
Cobalt	ug/L	1.7J	4.5J		25	
Copper	ug/L	ND	ND		25	
Lead	ug/L	ND	ND		25	
Nickel	ug/L	ND	2.3J		25	
Selenium	ug/L	7.8J	ND		25	
Silver	ug/L	ND	ND		25	
Thallium	ug/L	8.7	ND		25	
Vanadium	ug/L	2.0J	2.5J		25	
Zinc	ug/L	3.7J	7.3J		25	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF-DUDLEY
Pace Project No.: 9287512

QC Batch: MERP/3307 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 9287512001, 9287512002, 9287512004

METHOD BLANK: 567606 Matrix: Water
Associated Lab Samples: 9287512001, 9287512002, 9287512004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	03/01/11 16:27	

LABORATORY CONTROL SAMPLE: 567607

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.5	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 567608 567609

Parameter	Units	9287298031 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	2.4	2.4	98	94	75-125	4	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 567610 567611

Parameter	Units	9287512001 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	2.7	2.5	107	100	75-125	7	25	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF-DUDLEY
Pace Project No.: 9287512

QC Batch: MSV/14092 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 9287512001, 9287512002, 9287512003, 9287512004, 9287512005, 9287512006, 9287512007, 9287512008, 9287512009, 9287512010, 9287512011

METHOD BLANK: 566357 Matrix: Water
Associated Lab Samples: 9287512001, 9287512002, 9287512003, 9287512004, 9287512005, 9287512006, 9287512007, 9287512008, 9287512009, 9287512010, 9287512011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	02/18/11 16:36	
1,1,1-Trichloroethane	ug/L	ND	1.0	02/18/11 16:36	
1,1,2,2-Tetrachloroethane	ug/L	ND	3.0	02/18/11 16:36	
1,1,2-Trichloroethane	ug/L	ND	1.0	02/18/11 16:36	
1,1-Dichloroethane	ug/L	ND	5.0	02/18/11 16:36	
1,1-Dichloroethene	ug/L	ND	5.0	02/18/11 16:36	
1,1-Dichloropropene	ug/L	ND	5.0	02/18/11 16:36	
1,2,3-Trichloropropane	ug/L	ND	1.0	02/18/11 16:36	
1,2,4-Trichlorobenzene	ug/L	ND	10.0	02/18/11 16:36	
1,2-Dibromo-3-chloropropane	ug/L	ND	13.0	02/18/11 16:36	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	02/18/11 16:36	
1,2-Dichlorobenzene	ug/L	ND	5.0	02/18/11 16:36	
1,2-Dichloroethane	ug/L	ND	1.0	02/18/11 16:36	
1,2-Dichloropropane	ug/L	ND	1.0	02/18/11 16:36	
1,3-Dichlorobenzene	ug/L	ND	5.0	02/18/11 16:36	
1,3-Dichloropropane	ug/L	ND	1.0	02/18/11 16:36	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/18/11 16:36	
2,2-Dichloropropane	ug/L	ND	15.0	02/18/11 16:36	
2-Butanone (MEK)	ug/L	ND	100	02/18/11 16:36	
2-Hexanone	ug/L	ND	50.0	02/18/11 16:36	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	02/18/11 16:36	
Acetone	ug/L	ND	100	02/18/11 16:36	
Acetonitrile	ug/L	ND	55.0	02/18/11 16:36	
Acrolein	ug/L	ND	53.0	02/18/11 16:36	
Acrylonitrile	ug/L	ND	200	02/18/11 16:36	
Allyl chloride	ug/L	ND	10.0	02/18/11 16:36	
Benzene	ug/L	ND	1.0	02/18/11 16:36	
Bromochloromethane	ug/L	ND	3.0	02/18/11 16:36	
Bromodichloromethane	ug/L	ND	1.0	02/18/11 16:36	
Bromoform	ug/L	ND	3.0	02/18/11 16:36	
Bromomethane	ug/L	ND	10.0	02/18/11 16:36	
Carbon disulfide	ug/L	ND	100	02/18/11 16:36	
Carbon tetrachloride	ug/L	ND	1.0	02/18/11 16:36	
Chlorobenzene	ug/L	ND	3.0	02/18/11 16:36	
Chloroethane	ug/L	ND	10.0	02/18/11 16:36	
Chloroform	ug/L	ND	5.0	02/18/11 16:36	
Chloromethane	ug/L	ND	1.0	02/18/11 16:36	
Chloroprene	ug/L	ND	20.0	02/18/11 16:36	
cis-1,2-Dichloroethene	ug/L	ND	5.0	02/18/11 16:36	
cis-1,3-Dichloropropene	ug/L	ND	1.0	02/18/11 16:36	
Dibromochloromethane	ug/L	ND	3.0	02/18/11 16:36	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF-DUDLEY
Pace Project No.: 9287512

METHOD BLANK: 566357 Matrix: Water

Associated Lab Samples: 9287512001, 9287512002, 9287512003, 9287512004, 9287512005, 9287512006, 9287512007, 9287512008, 9287512009, 9287512010, 9287512011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	10.0	02/18/11 16:36	
Dichlorodifluoromethane	ug/L	ND	5.0	02/18/11 16:36	
Ethyl methacrylate	ug/L	ND	10.0	02/18/11 16:36	
Ethylbenzene	ug/L	ND	1.0	02/18/11 16:36	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	02/18/11 16:36	
Iodomethane	ug/L	1.6J	10.0	02/18/11 16:36	
Isobutanol	ug/L	ND	100	02/18/11 16:36	
Methacrylonitrile	ug/L	ND	100	02/18/11 16:36	
Methyl methacrylate	ug/L	ND	30.0	02/18/11 16:36	
Methylene Chloride	ug/L	ND	1.0	02/18/11 16:36	
Naphthalene	ug/L	ND	10.0	02/18/11 16:36	
Propionitrile	ug/L	ND	150	02/18/11 16:36	
Styrene	ug/L	ND	1.0	02/18/11 16:36	
Tetrachloroethene	ug/L	ND	1.0	02/18/11 16:36	
Toluene	ug/L	ND	1.0	02/18/11 16:36	
trans-1,2-Dichloroethene	ug/L	ND	5.0	02/18/11 16:36	
trans-1,3-Dichloropropene	ug/L	ND	1.0	02/18/11 16:36	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	02/18/11 16:36	
Trichloroethene	ug/L	ND	1.0	02/18/11 16:36	
Trichlorofluoromethane	ug/L	ND	1.0	02/18/11 16:36	
Vinyl acetate	ug/L	ND	50.0	02/18/11 16:36	
Vinyl chloride	ug/L	ND	1.0	02/18/11 16:36	
Xylene (Total)	ug/L	ND	5.0	02/18/11 16:36	
1,2-Dichloroethane-d4 (S)	%	112	70-130	02/18/11 16:36	
4-Bromofluorobenzene (S)	%	97	70-130	02/18/11 16:36	
Dibromofluoromethane (S)	%	112	70-130	02/18/11 16:36	
Toluene-d8 (S)	%	98	70-130	02/18/11 16:36	

LABORATORY CONTROL SAMPLE: 566358

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	55.3	111	70-130	
1,1,1-Trichloroethane	ug/L	50	52.9	106	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	54.1	108	70-130	
1,1,2-Trichloroethane	ug/L	50	54.7	109	70-130	
1,1-Dichloroethane	ug/L	50	56.6	113	70-130	
1,1-Dichloroethene	ug/L	50	52.7	105	70-132	
1,1-Dichloropropene	ug/L	50	58.4	117	70-130	
1,2,3-Trichloropropane	ug/L	50	51.1	102	70-130	
1,2,4-Trichlorobenzene	ug/L	50	55.1	110	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	53.8	108	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	55.7	111	70-130	
1,2-Dichlorobenzene	ug/L	50	58.2	116	70-130	
1,2-Dichloroethane	ug/L	50	51.2	102	70-130	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF-DUDLEY
Pace Project No.: 9287512

LABORATORY CONTROL SAMPLE: 566358

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloropropane	ug/L	50	57.2	114	70-130	
1,3-Dichlorobenzene	ug/L	50	57.9	116	70-130	
1,3-Dichloropropane	ug/L	50	58.4	117	70-130	
1,4-Dichlorobenzene	ug/L	50	55.6	111	70-130	
2,2-Dichloropropane	ug/L	50	55.5	111	58-145	
2-Butanone (MEK)	ug/L	100	129	129	70-145	
2-Hexanone	ug/L	100	103	103	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	100	104	104	70-140	
Acetone	ug/L	100	114	114	50-175	
Acetonitrile	ug/L	500	543	109	70-130	
Acrolein	ug/L	250	315	126	70-130	
Acrylonitrile	ug/L	250	274	110	70-143	
Allyl chloride	ug/L	50	62.1	124	70-130	
Benzene	ug/L	50	58.3	117	70-130	
Bromochloromethane	ug/L	50	54.8	110	70-130	
Bromodichloromethane	ug/L	50	52.2	104	70-130	
Bromoform	ug/L	50	59.1	118	70-130	
Bromomethane	ug/L	50	46.1	92	54-130	
Carbon disulfide	ug/L	50	52.2J	104	70-131	
Carbon tetrachloride	ug/L	50	52.3	105	70-132	
Chlorobenzene	ug/L	50	54.9	110	70-130	
Chloroethane	ug/L	50	47.9	96	64-134	
Chloroform	ug/L	50	50.1	100	70-130	
Chloromethane	ug/L	50	40.0	80	64-130	
Chloroprene	ug/L	50	57.3	115	70-130	
cis-1,2-Dichloroethene	ug/L	50	54.4	109	70-131	
cis-1,3-Dichloropropene	ug/L	50	52.9	106	70-130	
Dibromochloromethane	ug/L	50	53.1	106	70-130	
Dibromomethane	ug/L	50	54.4	109	70-131	
Dichlorodifluoromethane	ug/L	50	39.6	79	56-130	
Ethyl methacrylate	ug/L	50	53.3	107	70-130	
Ethylbenzene	ug/L	50	57.2	114	70-130	
Hexachloro-1,3-butadiene	ug/L	50	68.3	137	70-130	L3
Iodomethane	ug/L	100	110	110	49-180	
Isobutanol	ug/L	1000	1040	104	70-130	
Methacrylonitrile	ug/L	500	568	114	70-130	
Methyl methacrylate	ug/L	50	49.3	99	70-130	
Methylene Chloride	ug/L	50	55.7	111	63-130	
Naphthalene	ug/L	50	56.8	114	70-138	
Propionitrile	ug/L	500	546	109	70-130	
Styrene	ug/L	50	55.4	111	70-130	
Tetrachloroethene	ug/L	50	56.9	114	70-130	
Toluene	ug/L	50	56.2	112	70-130	
trans-1,2-Dichloroethene	ug/L	50	54.2	108	70-130	
trans-1,3-Dichloropropene	ug/L	50	50.9	102	70-132	
trans-1,4-Dichloro-2-butene	ug/L	50	61.3J	123	70-141	
Trichloroethene	ug/L	50	57.5	115	70-130	
Trichlorofluoromethane	ug/L	50	45.2	90	62-133	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF-DUDLEY
Pace Project No.: 9287512

LABORATORY CONTROL SAMPLE: 566358

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl acetate	ug/L	100	103	103	66-157	
Vinyl chloride	ug/L	50	53.1	106	69-130	
Xylene (Total)	ug/L	150	178	119	70-130	
1,2-Dichloroethane-d4 (S)	%			92	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Dibromofluoromethane (S)	%			96	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 566359 566360

Parameter	Units	9287512011 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	57.0	57.6	114	115	70-166	1	30	
Benzene	ug/L	ND	50	50	60.4	60.2	121	120	70-148	0	30	
Chlorobenzene	ug/L	ND	50	50	58.2	57.9	116	116	70-146	0	30	
Toluene	ug/L	ND	50	50	57.1	57.3	114	115	70-155	0	30	
Trichloroethene	ug/L	ND	50	50	54.3	54.6	109	109	69-151	1	30	
1,2-Dichloroethane-d4 (S)	%						102	105	70-130			
4-Bromofluorobenzene (S)	%						97	95	70-130			
Dibromofluoromethane (S)	%						103	105	70-130			
Toluene-d8 (S)	%						93	93	70-130			

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QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF-DUDLEY
Pace Project No.: 9287512

QC Batch: WET/15405 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 9287512001, 9287512002, 9287512003

METHOD BLANK: 565181 Matrix: Water
Associated Lab Samples: 9287512001, 9287512002, 9287512003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	ug/L	ND	5000	02/16/11 16:00	

LABORATORY CONTROL SAMPLE: 565182

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	ug/L	50000	52900	106	90-110	

SAMPLE DUPLICATE: 565183

Parameter	Units	9287606002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	ug/L	51.9 mg/L	51900	0	20	

SAMPLE DUPLICATE: 565184

Parameter	Units	9287298024 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	ug/L	517 mg/L	517000	0	20	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF-DUDLEY
Pace Project No.: 9287512

QC Batch: WET/15350 Analysis Method: SM 4500-S2D
QC Batch Method: SM 4500-S2D Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 9287512001, 9287512002, 9287512003, 9287512004

METHOD BLANK: 563332 Matrix: Water
Associated Lab Samples: 9287512001, 9287512002, 9287512003, 9287512004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	ug/L	ND	1000	02/11/11 19:00	

LABORATORY CONTROL SAMPLE: 563333

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	ug/L	500	501J	100	90-110	

MATRIX SPIKE SAMPLE: 563334

Parameter	Units	9287298024 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	ug/L	ND	500	ND	0	75-125	M3

SAMPLE DUPLICATE: 563335

Parameter	Units	9287298025 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF-DUDLEY
Pace Project No.: 9287512

QC Batch: WET/15323 Analysis Method: SM 5210B
QC Batch Method: SM 5210B Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 9287512001, 9287512002, 9287512003

METHOD BLANK: 562198 Matrix: Water
Associated Lab Samples: 9287512001, 9287512002, 9287512003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	ug/L	ND	2000	02/15/11 10:45	

LABORATORY CONTROL SAMPLE: 562199

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	ug/L	198000	162000	82	84-115	B4

SAMPLE DUPLICATE: 562200

Parameter	Units	9287512002 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	ug/L	6150	8570	33	20	B4,R1

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QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF-DUDLEY
Pace Project No.: 9287512

QC Batch: WETA/9164 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 9287512001, 9287512002, 9287512003

METHOD BLANK: 567419 Matrix: Water
Associated Lab Samples: 9287512001, 9287512002, 9287512003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	ug/L	ND	5000	02/21/11 17:01	

LABORATORY CONTROL SAMPLE: 567420

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	20000	20200	101	90-110	

MATRIX SPIKE SAMPLE: 567423

Parameter	Units	9287753002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	5.6 mg/L	20000	25900	101	90-110	

MATRIX SPIKE SAMPLE: 568041

Parameter	Units	9287500002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	ND	20000	94300	472	90-110	M6

SAMPLE DUPLICATE: 567422

Parameter	Units	9287512001 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfate	ug/L	ND	ND		20	

SAMPLE DUPLICATE: 567424

Parameter	Units	9287753003 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfate	ug/L	7.2 mg/L	7210	0	20	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF-DUDLEY
Pace Project No.: 9287512

QC Batch: WETA/9094 — Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 — Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 9287512001, 9287512002, 9287512003

METHOD BLANK: 562161 — Matrix: Water
Associated Lab Samples: 9287512001, 9287512002, 9287512003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	ug/L	ND	10000	02/09/11 22:18	

LABORATORY CONTROL SAMPLE: 562162

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	ug/L	5000	4930J	99	90-110	

MATRIX SPIKE SAMPLE: 562163

Parameter	Units	9287512002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	ug/L	ND	5000	3920J	78	90-110	M1

MATRIX SPIKE SAMPLE: 562164

Parameter	Units	9287515019 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	ug/L	5030J	5000	16400J	227	90-110	M1

SAMPLE DUPLICATE: 562165

Parameter	Units	9287515020 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	ug/L	3090J	3090J	0	20	

SAMPLE DUPLICATE: 562166

Parameter	Units	9287439001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	ug/L	0.58 mg/L	585J	1	20	

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

QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF-DUDLEY
Pace Project No.: 9287512

QC Batch: WETA/9183 Analysis Method: SM 4500-Cl-E
QC Batch Method: SM 4500-Cl-E Analysis Description: 4500 Chloride
Associated Lab Samples: 9287512001, 9287512002, 9287512003

METHOD BLANK: 568586 Matrix: Water
Associated Lab Samples: 9287512001, 9287512002, 9287512003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	ug/L	ND	5000	02/23/11 21:44	

LABORATORY CONTROL SAMPLE: 568587

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	ug/L	20000	21500	107	90-110	

MATRIX SPIKE SAMPLE: 568588

Parameter	Units	9287532004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	ug/L	ND	20000	22400	95	75-125	

SAMPLE DUPLICATE: 568590

Parameter	Units	9287755001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	ug/L	39.7 mg/L	35700	11	20	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF-DUDLEY
Pace Project No.: 9287512

QC Batch: WETA/9129 | Analysis Method: SM 4500-CN-E
QC Batch Method: SM 4500-CN-E | Analysis Description: 4500CNE Cyanide, Total
Associated Lab Samples: 9287512001, 9287512002

METHOD BLANK: 564702 | Matrix: Water
Associated Lab Samples: 9287512001, 9287512002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	ug/L	ND	10.0	02/20/11 11:24	

LABORATORY CONTROL SAMPLE: 564703

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	100	103	103	80-120	

MATRIX SPIKE SAMPLE: 564704

Parameter	Units	9287298024 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	ND	100	97.4	94	75-125	

MATRIX SPIKE SAMPLE: 564742

Parameter	Units	9287298023 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	ND	100	102	99	75-125	

SAMPLE DUPLICATE: 564743

Parameter	Units	9287298025 Result	Dup Result	RPD	Max RPD	Qualifiers
Cyanide	ug/L	ND	ND		20	

SAMPLE DUPLICATE: 564744

Parameter	Units	9287298026 Result	Dup Result	RPD	Max RPD	Qualifiers
Cyanide	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF-DUDLEY
Pace Project No.: 9287512

QC Batch: WETA/9161 Analysis Method: SM 5220D
QC Batch Method: SM 5220D Analysis Description: 5220D COD
Associated Lab Samples: 9287512001, 9287512002, 9287512003

METHOD BLANK: 567221 Matrix: Water
Associated Lab Samples: 9287512001, 9287512002, 9287512003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	ug/L	ND	25000	02/21/11 15:29	

LABORATORY CONTROL SAMPLE: 567222

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	ug/L	750000	732000	98	90-110	

MATRIX SPIKE SAMPLE: 567224

Parameter	Units	9287298029 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	ug/L	ND	750000	1440000	189	75-125	M1

MATRIX SPIKE SAMPLE: 567226

Parameter	Units	9287298030 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	ug/L	ND	750000	1270000	167	75-125	M1

SAMPLE DUPLICATE: 567223

Parameter	Units	9287298029 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	ug/L	ND	25000		20	

SAMPLE DUPLICATE: 567225

Parameter	Units	9287515020 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	ug/L	469000	469000	0	20	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF-DUDLEY
Pace Project No.: 9287512

QC Batch: WETA/9121
Analysis Method: SM 5310B
QC Batch Method: SM 5310B
Analysis Description: 5310B TOC
Associated Lab Samples: 9287512001, 9287512003

METHOD BLANK: 563901
Matrix: Water
Associated Lab Samples: 9287512001, 9287512003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	ug/L	ND	1000	02/15/11 09:50	

LABORATORY CONTROL SAMPLE: 563902

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	ug/L	25000	24600	98	90-110	

MATRIX SPIKE SAMPLE: 563903

Parameter	Units	9287268001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	ug/L	32.7 mg/L	25000	29900	-11	75-125	M1

MATRIX SPIKE SAMPLE: 563905

Parameter	Units	9287268011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	ug/L	16.5 mg/L	25000	42600	104	75-125	

SAMPLE DUPLICATE: 563904

Parameter	Units	9287268002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	ug/L	19.3 mg/L	18400	4	20	

SAMPLE DUPLICATE: 563906

Parameter	Units	9287268012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	ug/L	13.6 mg/L	12800	6	20	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF-DUDLEY
Pace Project No.: 9287512

QC Batch: WETA/9153
QC Batch Method: SM 5310B
Analysis Method: SM 5310B
Analysis Description: 5310B TOC
Associated Lab Samples: 9287512002

METHOD BLANK: 566992
Matrix: Water
Associated Lab Samples: 9287512002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	ug/L	ND	1000	02/19/11 16:40	

LABORATORY CONTROL SAMPLE: 566993

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	ug/L	25000	24500	98	90-110	

MATRIX SPIKE SAMPLE: 566994

Parameter	Units	9287512002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	ug/L	50100	25000	64600	58	75-125	M1

MATRIX SPIKE SAMPLE: 566996

Parameter	Units	9287753010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	ug/L	19.7 mg/L	25000	49800	120	75-125	

SAMPLE DUPLICATE: 566995

Parameter	Units	9287753001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	ug/L	18.1 mg/L	17300	5	20	

SAMPLE DUPLICATE: 566997

Parameter	Units	9287753011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	ug/L	14.2 mg/L	12600	12	20	

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QUALIFIERS

Project: WAYNE CLOSED MSWLF-DUDLEY
Pace Project No.: 9287512

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.

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.

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

LABORATORIES

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

ANALYTE QUALIFIERS

B4	The glucose/glutamic acid standard exceeded the range of 198 plus or minus 30.5 mg/L.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M3	Matrix spike recovery was outside laboratory control limits due to matrix interferences.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
R1	RPD value was outside control limits.

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Client Name: Pace Analytical Services
Contact: Kevin Godwin
Address: 9800 Kincey Ave
Suite 100
Huntersville, NC 28078

Page: Page 1 of 4
Lab Proj #: P1102099
Report Date: 02/21/11
Client Proj Name: Wayne Closed-Dudley
Client Proj #: 9287512

Laboratory Results

Total pages in data package: _____

Lab Sample #	Client Sample ID
P1102099-01	MW-1
P1102099-02	MW-2
P1102099-03	MW-8

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

Approved By: _____ ***Date:*** _____

Project Manager: Heather Hauser

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

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

Case Narrative: The percent recovery for lactic acid for the MSD analysis was outside of control limits.

Client Name:	Pace Analytical Services	Page:	Page 2 of 4
Contact:	Kevin Godwin	Lab Proj #:	P1102099
Address:	9800 Kincey Ave	Report Date:	02/21/11
	Suite 100	Client Proj Name:	Wayne Closed-Dudley
	Huntersville, NC 28078	Client Proj #:	9287512

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
MW-1	Vapor	P1102099-01	08 Feb. 11 15:00	11 Feb. 11 11:32

Analyte(s)	Flag	Result	PQL	MDL	Units	Method #	Analysis Date	By
RiskAnalysis								
N Ethane	J	0.003	0.010	0.001	ug/L	AM20GAX	2/17/11	gt
N Ethene		0.029	0.010	0.002	ug/L	AM20GAX	2/17/11	gt
N Hydrogen		7.700	0.600	0.250	nM	AM20GAX	2/17/11	gt
N Methane		0.023	0.015	0.003	ug/L	AM20GAX	2/17/11	gt
SemiVolatiles								
N Acetic Acid	J	0.053	0.070	0.006	mg/L	AM23G	2/15/11	kb
N Butyric Acid	U	< 0.050	0.050	0.004	mg/L	AM23G	2/15/11	kb
N Lactic Acid	M	0.150	0.100	0.010	mg/L	AM23G	2/15/11	kb
N Propionic Acid		0.074	0.050	0.007	mg/L	AM23G	2/15/11	kb
N Pyruvic Acid	U	< 0.150	0.150	0.033	mg/L	AM23G	2/15/11	kb

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Pace Analytical Services
Contact: Kevin Godwin
Address: 9800 Kincey Ave
Suite 100
Huntersville, NC 28078

Lab Proj #: P1102099
Report Date: 02/21/11
Client Proj Name: Wayne Closed-Dudley
Client Proj #: 9287512

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
MW-2	Vapor	P1102099-02	08 Feb. 11 14:00	11 Feb. 11 11:32

Analyte(s)	Flag	Result	PQL	MDL	Units	Method #	Analysis Date	By
RiskAnalysis								
N Ethane		6.200	0.010	0.001	ug/L	AM20GAX	2/17/11	gt
N Ethene	U	< 0.010	0.010	0.002	ug/L	AM20GAX	2/17/11	gt
N Hydrogen		8.500	0.600	0.250	nM	AM20GAX	2/17/11	gt
N Methane		4600.000	0.015	0.003	ug/L	AM20GAX	2/17/11	gt
SemiVolatiles								
N Acetic Acid		0.094	0.070	0.006	mg/L	AM23G	2/15/11	kb
N Butyric Acid		0.120	0.050	0.004	mg/L	AM23G	2/15/11	kb
N Lactic Acid	M	0.230	0.100	0.010	mg/L	AM23G	2/15/11	kb
N Propionic Acid	U	< 0.050	0.050	0.007	mg/L	AM23G	2/15/11	kb
N Pyruvic Acid	J	0.100	0.150	0.033	mg/L	AM23G	2/15/11	kb

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Pace Analytical Services
Contact: Kevin Godwin
Address: 9800 Kincey Ave
Suite 100
Huntersville, NC 28078

Page: Page 4 of 4
Lab Proj #: P1102099
Report Date: 02/21/11
Client Proj Name: Wayne Closed-Dudley
Client Proj #: 9287512

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
MW-8	Vapor	P1102099-03	08 Feb. 11 16:00	11 Feb. 11 11:32

Analyte(s)	Flag	Result	PQL	MDL	Units	Method #	Analysis Date	By
RiskAnalysis								
N Ethane	U	< 0.010	0.010	0.001	ug/L	AM20GAX	2/17/11	gt
N Ethene	U	< 0.010	0.010	0.002	ug/L	AM20GAX	2/17/11	gt
N Hydrogen		11.000	0.600	0.250	nM	AM20GAX	2/17/11	gt
N Methane		0.760	0.015	0.003	ug/L	AM20GAX	2/17/11	gt
SemiVolatiles								
N Acetic Acid	J	0.063	0.070	0.006	mg/L	AM23G	2/15/11	kb
N Butyric Acid	U	< 0.050	0.050	0.004	mg/L	AM23G	2/15/11	kb
N Lactic Acid	M	0.340	0.100	0.010	mg/L	AM23G	2/15/11	kb
N Propionic Acid	U	< 0.050	0.050	0.007	mg/L	AM23G	2/15/11	kb
N Pyruvic Acid	J	0.100	0.150	0.033	mg/L	AM23G	2/15/11	kb

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Partial Submittal
Additional Samples 2B submitted later. Combine 4 1 Report

Page: 1 of 1

1448167

Section A Required Client Information:

Company: Municipal Engineering Services
Address: PO Box 97
Garner NC 27529
Email To: jpfohl@mesco.com
Phone: (919)772-5393 Fax: (919)772-1176
Requested Due Date/TAT: Standard

Section B Required Project Information:

Report To: Jonathan Pfohl
Copy To: mgelman@mesco.com
Purchase Order No.:
Project Name: Wayne Closed MSWLF-Dudley
Project Number:

Section C Invoice Information:

Attention: See A
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Kevin Godwin
Pace Profile #: 2103-7

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER

Site Location STATE: NC

928752

Section D Required Client Information

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

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start Date	Composite Start Time	Composite End/Grab Date	Composite End/Grab Time	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	VOCs-App I 8260	VOCs-App II 8260	Metals-App I	Metals-App II	Alkalinity	Sulfate	Sulfide	Chloride	TOC	COD	BOD/Iron/Nitrate	Cyanide	Residual Chlorine (Y/N)	VFA	Ethane/Ethene/Methane	Dissolved Hydrogen	Use GAX Method from the vapor sample for M/E/E & Dissolved H2. For VFA use Microseps method w/Lowest Detection Limits	Pace Project No./ Lab I.D.
1	MW-1	WT	G			2/8/11	3:00					2	5							✓		✓	✓	✓	✓	✓	✓	✓	[redacted]	N	✓	✓	✓		001
2	MW-2						2:00					2	5							✓		✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓		002
3	MW-4						12:40		5			1	3						✓			✓			✓											004
4	MW-8						4:00					2	5						✓		✓		✓	✓	✓	✓	✓	✓	✓		✓	✓	✓			003
5																													per Jonathan 2/10/11							
6																																				
7																																				
8																																				
9																																				
10																																				
11																																				
12																																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature] / MESCO	2/8/11	6:35PM	[signature] / Pace	2/9/11	1030				
	[signature] / Pace	2/9/11	Leave office 1640	[signature] / Pace	2/9/11	1640	3.0	Y	N	Y

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

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Jonathan Pfohl
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 2/8/11

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Sample Condition Upon Receipt

Pace Analytical

Client Name: Municipal Engineering Services Project # 9287512

Where Received: ☑ Huntersville ☐ Asheville ☐ Eden

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 : T904 **Type of Ice:** (Wet) Blue None ☐ Samples on ice, cooling process has begun

Temp Correction Factor: Add / Subtract _____0_____C

Corrected Cooler Temp.: 3.0 C **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 2/9/11 [illegible]

		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. Missing Cyanide for MW-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 No Time on Bottles
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation. 2/9/11	☑Yes ☑No ☐N/A	Sulfide MW2 MW4 Ph is 7
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed
Samples checked for dechlorination:	☑Yes ☐No ☐N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):_____		

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

Person Contacted: Jonathan Rfohl Date/Time: 2/10/11

Comments/ Resolution: PM informed we received cyanide for MW-1 but no cyanide for MW-8. Jonathan instructed to analyze cyanide for MW-1 and to mark through cyanide on COC for MW-8.

CURF Review: [illegible] Date: 2/9/11 **SRF Review:** [illegible] Date: 2/10/11

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)

Final submittal for this Report. combine w/ other samples submitted on 2/9/11.

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

1448154

Section A Required Client Information:

Company: Municipal Engineering Services
Address: PO Box 97
Garner NC 27529
Email To: jpfohl@mesco.com
Phone: (919)772-5393 Fax: (919)772-1176
Requested Due Date/TAT: Standard

Section B Required Project Information:

Report To: jpfohl@mesco.com
Copy To: mgerman@mesco.com
Purchase Order No.:
Project Name: Wayne Closed MSWLF - Dudley
Project Number:

Section C Invoice Information:

Attention: See A
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Kevin Godwin
Pace Profile #: 2103-3 6

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER

Site Location STATE: NC

Section D Required Client Information

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

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N): N

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: VOC - App I	VOC - App II	Metals - App I	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-3	WT	G			2/9/11	11:15		4			1	3					✓		✓	N	92875
2	MW-5						2:05													✓		005
3	MW-6						10:20													✓		006
4	MW-7						9:45													✓		007
5	MW-9						12:00															008
6	MW-10						1:35															009
7	MW-11						2:40												✓			010
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature] /MESCO	2-10-11	9:26	[signature] pace	2-10-11	9:26				
	[signature] pace	2/10/11	15:43	[signature]	2/10/11	15:43	2.3	Y	N	Y

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

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Jonathan Pfohl
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 2/9/11

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Sample Condition Upon Receipt

Pace Analytical

Client Name: Municipal Project # 9287512

Where Received: ☑ Huntersville ☐ Asheville ☐ Eden

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 : T904 **Type of Ice:** (Wet) Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor: Add / Subtract _____0_____C

Corrected Cooler Temp.: 2.0 C **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: WMS 2/10/11

		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.
-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	Initial when completed
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):_____		

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: [signature] Date: 2/10/11 **SRF Review:** [signature] Date: 2/11/11

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

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Huntersville, NC 28078
(704)875-9092

February 15, 2011

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

RE: Project: WAYNE CLOSED - SW- BY MW-2
Pace Project No.: 9287514

Dear Mr. Pfohl:
Enclosed are the analytical results for sample(s) received by the laboratory on February 09, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated 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

cc: Ms. Maggie German, Municipal Engineering Services

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CERTIFICATIONS

Project: WAYNE CLOSED - SW- BY MW-2
Pace Project No.: 9287514

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
Pennsylvania Certification #: 68-00784
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Virginia Certification #: 00213
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DHH Drinking Water # LA 100031
West Virginia Certification #: 357

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SAMPLE SUMMARY

Project: WAYNE CLOSED - SW- BY MW-2
Pace Project No.: 9287514

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9287514001	**SW-BY-MW-2**	Water	02/07/11 14:10	02/09/11 16:40

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SAMPLE ANALYTE COUNT

Project: WAYNE CLOSED - SW- BY MW-2
Pace Project No.: 9287514

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9287514001	**SW-BY-MW-2**	EPA 8260	TLS	68	PASI-C

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ANALYTICAL RESULTS

Project: WAYNE CLOSED - SW- BY MW-2
Pace Project No.: 9287514

Sample: SW-BY-MW-2 **Lab ID: 9287514001** Collected: 02/07/11 14:10 Received: 02/09/11 16:40 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	2.2	1		02/11/11 21:49	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		02/11/11 21:49	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		02/11/11 21:49	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		02/11/11 21:49	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		02/11/11 21:49	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		02/11/11 21:49	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/11/11 21:49	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/11/11 21:49	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/11/11 21:49	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/11/11 21:49	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/11/11 21:49	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/11/11 21:49	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/11/11 21:49	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/11/11 21:49	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/11/11 21:49	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/11/11 21:49	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/11/11 21:49	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		02/11/11 21:49	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/11/11 21:49	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/11/11 21:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/11/11 21:49	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/11/11 21:49	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/11/11 21:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		02/11/11 21:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/11/11 21:49	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/11/11 21:49	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		02/11/11 21:49	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/11/11 21:49	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/11/11 21:49	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/11/11 21:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/11/11 21:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/11/11 21:49	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/11/11 21:49	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/11/11 21:49	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		02/11/11 21:49	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		02/11/11 21:49	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/11/11 21:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/11/11 21:49	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/11/11 21:49	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		02/11/11 21:49	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		02/11/11 21:49	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/11/11 21:49	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/11/11 21:49	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		02/11/11 21:49	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		02/11/11 21:49	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/11/11 21:49	75-09-2	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED - SW- BY MW-2
Pace Project No.: 9287514

Sample: SW-BY-MW-2 **Lab ID: 9287514001** Collected: 02/07/11 14:10 Received: 02/09/11 16:40 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		02/11/11 21:49	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/11/11 21:49	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		02/11/11 21:49	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		02/11/11 21:49	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		02/11/11 21:49	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/11/11 21:49	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/11/11 21:49	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/11/11 21:49	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/11/11 21:49	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		02/11/11 21:49	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/11/11 21:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/11/11 21:49	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/11/11 21:49	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/11/11 21:49	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/11/11 21:49	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/11/11 21:49	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/11/11 21:49	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/11/11 21:49	1330-20-7	
4-Bromofluorobenzene (S)	101	%	70-130		1		02/11/11 21:49	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		1		02/11/11 21:49	1868-53-7	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		02/11/11 21:49	17060-07-0	
Toluene-d8 (S)	95	%	70-130		1		02/11/11 21:49	2037-26-5	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED - SW- BY MW-2
Pace Project No.: 9287514

QC Batch: MSV/14019
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 9287514001

METHOD BLANK: 563189
Matrix: Water
Associated Lab Samples: 9287514001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	02/11/11 21:26	
1,1,1-Trichloroethane	ug/L	ND	1.0	02/11/11 21:26	
1,1,2,2-Tetrachloroethane	ug/L	ND	3.0	02/11/11 21:26	
1,1,2-Trichloroethane	ug/L	ND	1.0	02/11/11 21:26	
1,1-Dichloroethane	ug/L	ND	5.0	02/11/11 21:26	
1,1-Dichloroethene	ug/L	ND	5.0	02/11/11 21:26	
1,1-Dichloropropene	ug/L	ND	5.0	02/11/11 21:26	
1,2,3-Trichloropropane	ug/L	ND	1.0	02/11/11 21:26	
1,2,4-Trichlorobenzene	ug/L	ND	10.0	02/11/11 21:26	
1,2-Dibromo-3-chloropropane	ug/L	ND	13.0	02/11/11 21:26	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	02/11/11 21:26	
1,2-Dichlorobenzene	ug/L	ND	5.0	02/11/11 21:26	
1,2-Dichloroethane	ug/L	ND	1.0	02/11/11 21:26	
1,2-Dichloropropane	ug/L	ND	1.0	02/11/11 21:26	
1,3-Dichlorobenzene	ug/L	ND	5.0	02/11/11 21:26	
1,3-Dichloropropane	ug/L	ND	1.0	02/11/11 21:26	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/11/11 21:26	
2,2-Dichloropropane	ug/L	ND	15.0	02/11/11 21:26	
2-Butanone (MEK)	ug/L	ND	100	02/11/11 21:26	
2-Hexanone	ug/L	ND	50.0	02/11/11 21:26	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	02/11/11 21:26	
Acetone	ug/L	ND	100	02/11/11 21:26	
Acetonitrile	ug/L	ND	55.0	02/11/11 21:26	
Acrolein	ug/L	ND	53.0	02/11/11 21:26	
Acrylonitrile	ug/L	ND	200	02/11/11 21:26	
Allyl chloride	ug/L	ND	10.0	02/11/11 21:26	
Benzene	ug/L	ND	1.0	02/11/11 21:26	
Bromochloromethane	ug/L	ND	3.0	02/11/11 21:26	
Bromodichloromethane	ug/L	ND	1.0	02/11/11 21:26	
Bromoform	ug/L	ND	3.0	02/11/11 21:26	
Bromomethane	ug/L	ND	10.0	02/11/11 21:26	
Carbon disulfide	ug/L	ND	100	02/11/11 21:26	
Carbon tetrachloride	ug/L	ND	1.0	02/11/11 21:26	
Chlorobenzene	ug/L	ND	3.0	02/11/11 21:26	
Chloroethane	ug/L	ND	10.0	02/11/11 21:26	
Chloroform	ug/L	ND	5.0	02/11/11 21:26	
Chloromethane	ug/L	ND	1.0	02/11/11 21:26	
Chloroprene	ug/L	ND	20.0	02/11/11 21:26	
cis-1,2-Dichloroethene	ug/L	ND	5.0	02/11/11 21:26	
cis-1,3-Dichloropropene	ug/L	ND	1.0	02/11/11 21:26	
Dibromochloromethane	ug/L	ND	3.0	02/11/11 21:26	
Dibromomethane	ug/L	ND	10.0	02/11/11 21:26	
Dichlorodifluoromethane	ug/L	ND	5.0	02/11/11 21:26	

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

QUALITY CONTROL DATA

Project: WAYNE CLOSED - SW- BY MW-2
Pace Project No.: 9287514

METHOD BLANK: 563189 Matrix: Water

Associated Lab Samples: 9287514001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethyl methacrylate	ug/L	ND	10.0	02/11/11 21:26	
Ethylbenzene	ug/L	ND	1.0	02/11/11 21:26	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	02/11/11 21:26	
Iodomethane	ug/L	ND	10.0	02/11/11 21:26	
Isobutanol	ug/L	ND	100	02/11/11 21:26	
Methacrylonitrile	ug/L	ND	100	02/11/11 21:26	
Methyl methacrylate	ug/L	ND	30.0	02/11/11 21:26	
Methylene Chloride	ug/L	ND	1.0	02/11/11 21:26	
Naphthalene	ug/L	ND	10.0	02/11/11 21:26	
Propionitrile	ug/L	ND	150	02/11/11 21:26	
Styrene	ug/L	ND	1.0	02/11/11 21:26	
Tetrachloroethene	ug/L	ND	1.0	02/11/11 21:26	
Toluene	ug/L	ND	1.0	02/11/11 21:26	
trans-1,2-Dichloroethene	ug/L	ND	5.0	02/11/11 21:26	
trans-1,3-Dichloropropene	ug/L	ND	1.0	02/11/11 21:26	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	02/11/11 21:26	
Trichloroethene	ug/L	ND	1.0	02/11/11 21:26	
Trichlorofluoromethane	ug/L	ND	1.0	02/11/11 21:26	
Vinyl acetate	ug/L	ND	50.0	02/11/11 21:26	
Vinyl chloride	ug/L	ND	1.0	02/11/11 21:26	
Xylene (Total)	ug/L	ND	5.0	02/11/11 21:26	
1,2-Dichloroethane-d4 (S)	%	95	70-130	02/11/11 21:26	
4-Bromofluorobenzene (S)	%	100	70-130	02/11/11 21:26	
Dibromofluoromethane (S)	%	95	70-130	02/11/11 21:26	
Toluene-d8 (S)	%	93	70-130	02/11/11 21:26	

LABORATORY CONTROL SAMPLE: 563190

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	48.5	97	70-130	
1,1,1-Trichloroethane	ug/L	50	45.6	91	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	43.7	87	70-130	
1,1,2-Trichloroethane	ug/L	50	46.8	94	70-130	
1,1-Dichloroethane	ug/L	50	44.9	90	70-130	
1,1-Dichloroethene	ug/L	50	46.9	94	70-132	
1,1-Dichloropropene	ug/L	50	46.5	93	70-130	
1,2,3-Trichloropropane	ug/L	50	45.5	91	70-130	
1,2,4-Trichlorobenzene	ug/L	50	41.8	84	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	43.5	87	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	48.8	98	70-130	
1,2-Dichlorobenzene	ug/L	50	51.0	102	70-130	
1,2-Dichloroethane	ug/L	50	43.1	86	70-130	
1,2-Dichloropropane	ug/L	50	47.1	94	70-130	
1,3-Dichlorobenzene	ug/L	50	51.7	103	70-130	
1,3-Dichloropropane	ug/L	50	50.2	100	70-130	

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(704)875-9092

QUALITY CONTROL DATA

Project: WAYNE CLOSED - SW- BY MW-2
Pace Project No.: 9287514

LABORATORY CONTROL SAMPLE: 563190

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	47.8	96	70-130	
2,2-Dichloropropane	ug/L	50	44.6	89	58-145	
2-Butanone (MEK)	ug/L	100	78.7J	79	70-145	
2-Hexanone	ug/L	100	87.1	87	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	100	84.9J	85	70-140	
Acetone	ug/L	100	72.1J	72	50-175	
Acetonitrile	ug/L	500	406	81	70-130	
Acrolein	ug/L	250	211	85	70-130	
Acrylonitrile	ug/L	250	209	84	70-143	
Allyl chloride	ug/L	50	45.2	90	70-130	
Benzene	ug/L	50	48.1	96	70-130	
Bromochloromethane	ug/L	50	46.2	92	70-130	
Bromodichloromethane	ug/L	50	47.5	95	70-130	
Bromoform	ug/L	50	48.7	97	70-130	
Bromomethane	ug/L	50	57.5	115	54-130	
Carbon disulfide	ug/L	50	48.4J	97	70-131	
Carbon tetrachloride	ug/L	50	49.2	98	70-132	
Chlorobenzene	ug/L	50	47.9	96	70-130	
Chloroethane	ug/L	50	48.8	98	64-134	
Chloroform	ug/L	50	44.6	89	70-130	
Chloromethane	ug/L	50	47.7	95	64-130	
Chloroprene	ug/L	50	47.6	95	70-130	
cis-1,2-Dichloroethene	ug/L	50	45.1	90	70-131	
cis-1,3-Dichloropropene	ug/L	50	46.1	92	70-130	
Dibromochloromethane	ug/L	50	49.3	99	70-130	
Dibromomethane	ug/L	50	46.5	93	70-131	
Dichlorodifluoromethane	ug/L	50	43.8	88	56-130	
Ethyl methacrylate	ug/L	50	43.1	86	70-130	
Ethylbenzene	ug/L	50	52.5	105	70-130	
Hexachloro-1,3-butadiene	ug/L	50	52.4	105	70-130	
Iodomethane	ug/L	100	99.4	99	49-180	
Isobutanol	ug/L	1000	817	82	70-130	
Methacrylonitrile	ug/L	500	433	87	70-130	
Methyl methacrylate	ug/L	50	38.7	77	70-130	
Methylene Chloride	ug/L	50	48.3	97	63-130	
Naphthalene	ug/L	50	42.8	86	70-138	
Propionitrile	ug/L	500	412	82	70-130	
Styrene	ug/L	50	50.4	101	70-130	
Tetrachloroethene	ug/L	50	51.3	103	70-130	
Toluene	ug/L	50	48.0	96	70-130	
trans-1,2-Dichloroethene	ug/L	50	45.9	92	70-130	
trans-1,3-Dichloropropene	ug/L	50	46.1	92	70-132	
trans-1,4-Dichloro-2-butene	ug/L	50	42.7J	85	70-141	
Trichloroethene	ug/L	50	51.8	104	70-130	
Trichlorofluoromethane	ug/L	50	50.4	101	62-133	
Vinyl acetate	ug/L	100	95.2	95	66-157	
Vinyl chloride	ug/L	50	53.9	108	69-130	
Xylene (Total)	ug/L	150	153	102	70-130	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED - SW- BY MW-2
Pace Project No.: 9287514

LABORATORY CONTROL SAMPLE: 563190

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%			89	70-130	
4-Bromofluorobenzene (S)	%			104	70-130	
Dibromofluoromethane (S)	%			94	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 563191 563192

Parameter	Units	9287514001 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	43.1	40.2	86	80	70-166	7	30	
Benzene	ug/L	ND	50	50	49.0	45.2	98	90	70-148	8	30	
Chlorobenzene	ug/L	ND	50	50	54.2	49.8	108	99	70-146	9	30	
Toluene	ug/L	ND	50	50	50.6	47.2	101	94	70-155	7	30	
Trichloroethene	ug/L	ND	50	50	43.3	40.8	87	82	69-151	6	30	
1,2-Dichloroethane-d4 (S)	%						97	98	70-130			
4-Bromofluorobenzene (S)	%						100	98	70-130			
Dibromofluoromethane (S)	%						94	94	70-130			
Toluene-d8 (S)	%						89	90	70-130			

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QUALIFIERS

Project: WAYNE CLOSED - SW- BY MW-2
Pace Project No.: 9287514

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.

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.

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

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

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This is the only Sample 4 this Report

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

1448169

Section A Required Client Information:

Company: Municipal Engineering Services
Address: PO Box 97
Gamer NC 27529
Email To: jsfahle@mesco.com
Phone: (919) 772-5393 Fax: (919) 772-1176
Requested Due Date/TAT: Standard

Section B Required Project Information:

Report To: J. Fahl
Copy To: mgerman@mesco.com
Purchase Order No.:
Project Name: Wayne Closed - SW - By MW-2
Project Number:

Section C Invoice Information:

Attention: See A
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Keum Godwin
Pace Profile #: 2103-6

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER

Site Location STATE: NC

Section D Required Client Information

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

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N): N

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start Date	Composite Start Time	Composite End/Grab Date	Composite End/Grab Time	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: VOCs - App II	Residual Chlorine (Y/N)	Pace Project No./Lab I.D.
1	SW-By MW-2	WT	G			2/7/11	2:10		3				3					✓	N	92287514 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			
Supplemental for MW-2 Delineation	MESCO	2/8/11	6:35PM	Pace	2/9/11	1030				
	Pace	2/9/11	Left office 1640	Pace	2/9/11	1640	2.8	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Jonathan Fahl
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY): 2/8/11

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

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Sample Condition Upon Receipt

Pace Analytical

Client Name: Municipal Engineering Services Project # 9287514

Where Received: ☑ Huntersville ☐ Asheville ☐ Eden

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 : T904 **Type of Ice:** (Wet) Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor: Add / Subtract _____0_____C

Corrected Cooler Temp.: 3.0 C **Biological Tissue is Frozen:** Yes No

Date and Initials of person examining contents: 2/9/11

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: 2/9/11	☑Yes ☑No ☐N/A	12. NO TIME NO DATE ON Vials
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):_____		

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

CURF Review: [signature] Date: 2/9/11 **SRF Review:** [signature] Date: KG 2/10/11

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

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February 23, 2011

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

RE: Project: WAYNE MSWLF - SW SHARED
Pace Project No.: 9287513

Dear Mr. Pfohl:
Enclosed are the analytical results for sample(s) received by the laboratory on February 09, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated 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

cc: Ms. Maggie German, Municipal Engineering Services

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CERTIFICATIONS

Project: WAYNE MSWLF - SW SHARED
Pace Project No.: 9287513

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
Pennsylvania Certification #: 68-00784
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Virginia Certification #: 00213
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DHH Drinking Water # LA 100031
West Virginia Certification #: 357

Asheville Certification IDs

2225 Riverside Dr., Asheville, NC 28804
Connecticut Certification #: PH-0106
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
New Jersey Certification #: NC011
North Carolina Bioassay Certification #: 9
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
Pennsylvania Certification #: 68-03578
South Carolina Bioassay Certification #: 99030002
South Carolina Certification #: 99030001
Virginia Certification #: 00072
West Virginia Certification #: 356

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SAMPLE SUMMARY

Project: WAYNE MSWLF - SW SHARED
Pace Project No.: 9287513

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9287513001	**SW-1**	Water	02/08/11 09:55	02/09/11 16:40
9287513002	**SW-2**	Water	02/08/11 09:25	02/09/11 16:40
9287513003	**SW-3**	Water	02/08/11 09:00	02/09/11 16:40

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SAMPLE ANALYTE COUNT

Project: WAYNE MSWLF - SW SHARED
Pace Project No.: 9287513

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9287513001	**SW-1**	EPA 6010	JMW	15	PASI-A
		EPA 8260	TLS	52	PASI-C
9287513002	**SW-2**	EPA 6010	JMW	15	PASI-A
		EPA 8260	TLS	52	PASI-C
9287513003	**SW-3**	EPA 6010	JMW	15	PASI-A
		EPA 8260	TLS	52	PASI-C

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ANALYTICAL RESULTS

Project: WAYNE MSWLF - SW SHARED
Pace Project No.: 9287513

Sample: SW-1 **Lab ID: 9287513001** Collected: 02/08/11 09:55 Received: 02/09/11 16:40 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	2.6	1	02/12/11 09:30	02/23/11 06:51	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	02/12/11 09:30	02/23/11 06:51	7440-38-2	
Barium	**187**	ug/L	100	0.20	1	02/12/11 09:30	02/23/11 06:51	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	02/12/11 09:30	02/23/11 06:51	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	02/12/11 09:30	02/23/11 06:51	7440-43-9	
Chromium	**0.57J**	ug/L	10.0	0.40	1	02/12/11 09:30	02/23/11 06:51	7440-47-3	
Cobalt	**4.7J**	ug/L	10.0	0.60	1	02/12/11 09:30	02/23/11 06:51	7440-48-4	
Copper	**0.53J**	ug/L	10.0	0.30	1	02/12/11 09:30	02/23/11 06:51	7440-50-8	
Lead	ND	ug/L	10.0	4.0	1	02/12/11 09:30	02/23/11 06:51	7439-92-1	
Nickel	ND	ug/L	50.0	1.7	1	02/12/11 09:30	02/23/11 06:51	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	02/12/11 09:30	02/23/11 06:51	7782-49-2	
Silver	ND	ug/L	10.0	0.10	1	02/12/11 09:30	02/23/11 06:51	7440-22-4	
Thallium	ND	ug/L	5.5	3.0	1	02/12/11 09:30	02/23/11 06:51	7440-28-0	
Vanadium	**0.74J**	ug/L	25.0	0.20	1	02/12/11 09:30	02/23/11 06:51	7440-62-2	
Zinc	**11.5**	ug/L	10.0	0.40	1	02/12/11 09:30	02/23/11 06:51	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		02/11/11 22:12	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/11/11 22:12	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/11/11 22:12	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/11/11 22:12	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/11/11 22:12	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/11/11 22:12	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/11/11 22:12	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/11/11 22:12	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/11/11 22:12	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/11/11 22:12	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/11/11 22:12	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/11/11 22:12	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/11/11 22:12	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/11/11 22:12	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/11/11 22:12	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/11/11 22:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/11/11 22:12	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/11/11 22:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/11/11 22:12	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/11/11 22:12	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/11/11 22:12	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/11/11 22:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/11/11 22:12	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/11/11 22:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/11/11 22:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/11/11 22:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/11/11 22:12	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/11/11 22:12	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/11/11 22:12	10061-01-5	

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ANALYTICAL RESULTS

Project: WAYNE MSWLF - SW SHARED
Pace Project No.: 9287513

Sample: SW-1 **Lab ID: 9287513001** Collected: 02/08/11 09:55 Received: 02/09/11 16:40 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		02/11/11 22:12	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/11/11 22:12	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/11/11 22:12	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/11/11 22:12	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/11/11 22:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/11/11 22:12	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/11/11 22:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/11/11 22:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/11/11 22:12	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/11/11 22:12	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/11/11 22:12	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/11/11 22:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/11/11 22:12	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/11/11 22:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/11/11 22:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/11/11 22:12	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/11/11 22:12	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/11/11 22:12	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/11/11 22:12	1330-20-7	
4-Bromofluorobenzene (S)	101	%	70-130		1		02/11/11 22:12	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		1		02/11/11 22:12	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		02/11/11 22:12	17060-07-0	
Toluene-d8 (S)	96	%	70-130		1		02/11/11 22:12	2037-26-5	

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ANALYTICAL RESULTS

Project: WAYNE MSWLF - SW SHARED
Pace Project No.: 9287513

Sample: SW-2 **Lab ID: 9287513002** Collected: 02/08/11 09:25 Received: 02/09/11 16:40 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	2.6	1	02/12/11 09:30	02/23/11 06:54	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	02/12/11 09:30	02/23/11 06:54	7440-38-2	
Barium	**29.0J**	ug/L	100	0.20	1	02/12/11 09:30	02/23/11 06:54	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	02/12/11 09:30	02/23/11 06:54	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	02/12/11 09:30	02/23/11 06:54	7440-43-9	
Chromium	**2.4J**	ug/L	10.0	0.40	1	02/12/11 09:30	02/23/11 06:54	7440-47-3	
Cobalt	**3.4J**	ug/L	10.0	0.60	1	02/12/11 09:30	02/23/11 06:54	7440-48-4	
Copper	**0.81J**	ug/L	10.0	0.30	1	02/12/11 09:30	02/23/11 06:54	7440-50-8	
Lead	ND	ug/L	10.0	4.0	1	02/12/11 09:30	02/23/11 06:54	7439-92-1	
Nickel	**4.4J**	ug/L	50.0	1.7	1	02/12/11 09:30	02/23/11 06:54	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	02/12/11 09:30	02/23/11 06:54	7782-49-2	
Silver	**0.11J**	ug/L	10.0	0.10	1	02/12/11 09:30	02/23/11 06:54	7440-22-4	
Thallium	ND	ug/L	5.5	3.0	1	02/12/11 09:30	02/23/11 06:54	7440-28-0	
Vanadium	**1.4J**	ug/L	25.0	0.20	1	02/12/11 09:30	02/23/11 06:54	7440-62-2	
Zinc	**8.6J**	ug/L	10.0	0.40	1	02/12/11 09:30	02/23/11 06:54	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		02/11/11 22:35	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/11/11 22:35	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/11/11 22:35	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/11/11 22:35	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/11/11 22:35	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/11/11 22:35	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/11/11 22:35	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/11/11 22:35	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/11/11 22:35	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/11/11 22:35	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/11/11 22:35	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/11/11 22:35	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/11/11 22:35	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/11/11 22:35	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/11/11 22:35	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/11/11 22:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/11/11 22:35	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/11/11 22:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/11/11 22:35	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/11/11 22:35	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/11/11 22:35	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/11/11 22:35	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/11/11 22:35	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/11/11 22:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/11/11 22:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/11/11 22:35	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/11/11 22:35	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/11/11 22:35	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/11/11 22:35	10061-01-5	

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ANALYTICAL RESULTS

Project: WAYNE MSWLF - SW SHARED
Pace Project No.: 9287513

Sample: SW-2 **Lab ID: 9287513002** Collected: 02/08/11 09:25 Received: 02/09/11 16:40 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		02/11/11 22:35	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/11/11 22:35	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/11/11 22:35	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/11/11 22:35	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/11/11 22:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/11/11 22:35	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/11/11 22:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/11/11 22:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/11/11 22:35	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/11/11 22:35	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/11/11 22:35	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/11/11 22:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/11/11 22:35	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/11/11 22:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/11/11 22:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/11/11 22:35	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/11/11 22:35	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/11/11 22:35	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/11/11 22:35	1330-20-7	
4-Bromofluorobenzene (S)	102	%	70-130		1		02/11/11 22:35	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		1		02/11/11 22:35	1868-53-7	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		02/11/11 22:35	17060-07-0	
Toluene-d8 (S)	91	%	70-130		1		02/11/11 22:35	2037-26-5	

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ANALYTICAL RESULTS

Project: WAYNE MSWLF - SW SHARED
Pace Project No.: 9287513

Sample: SW-3 **Lab ID: 9287513003** Collected: 02/08/11 09:00 Received: 02/09/11 16:40 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	2.6	1	02/12/11 09:30	02/23/11 06:58	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	02/12/11 09:30	02/23/11 06:58	7440-38-2	
Barium	**224**	ug/L	100	0.20	1	02/12/11 09:30	02/23/11 06:58	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	02/12/11 09:30	02/23/11 06:58	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	02/12/11 09:30	02/23/11 06:58	7440-43-9	
Chromium	**1.0J**	ug/L	10.0	0.40	1	02/12/11 09:30	02/23/11 06:58	7440-47-3	
Cobalt	**3.1J**	ug/L	10.0	0.60	1	02/12/11 09:30	02/23/11 06:58	7440-48-4	
Copper	**0.46J**	ug/L	10.0	0.30	1	02/12/11 09:30	02/23/11 06:58	7440-50-8	
Lead	ND	ug/L	10.0	4.0	1	02/12/11 09:30	02/23/11 06:58	7439-92-1	
Nickel	ND	ug/L	50.0	1.7	1	02/12/11 09:30	02/23/11 06:58	7440-02-0	
Selenium	**3.8J**	ug/L	10.0	3.8	1	02/12/11 09:30	02/23/11 06:58	7782-49-2	
Silver	**0.13J**	ug/L	10.0	0.10	1	02/12/11 09:30	02/23/11 06:58	7440-22-4	
Thallium	ND	ug/L	5.5	3.0	1	02/12/11 09:30	02/23/11 06:58	7440-28-0	
Vanadium	**0.44J**	ug/L	25.0	0.20	1	02/12/11 09:30	02/23/11 06:58	7440-62-2	
Zinc	**12.9**	ug/L	10.0	0.40	1	02/12/11 09:30	02/23/11 06:58	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		02/11/11 22:58	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/11/11 22:58	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/11/11 22:58	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/11/11 22:58	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/11/11 22:58	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/11/11 22:58	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/11/11 22:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/11/11 22:58	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/11/11 22:58	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/11/11 22:58	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/11/11 22:58	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/11/11 22:58	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/11/11 22:58	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/11/11 22:58	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/11/11 22:58	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/11/11 22:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/11/11 22:58	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/11/11 22:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/11/11 22:58	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/11/11 22:58	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/11/11 22:58	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/11/11 22:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/11/11 22:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/11/11 22:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/11/11 22:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/11/11 22:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/11/11 22:58	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/11/11 22:58	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/11/11 22:58	10061-01-5	

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ANALYTICAL RESULTS

Project: WAYNE MSWLF - SW SHARED
Pace Project No.: 9287513

Sample: SW-3 **Lab ID: 9287513003** Collected: 02/08/11 09:00 Received: 02/09/11 16:40 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		02/11/11 22:58	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/11/11 22:58	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/11/11 22:58	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/11/11 22:58	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/11/11 22:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/11/11 22:58	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/11/11 22:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/11/11 22:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/11/11 22:58	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/11/11 22:58	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/11/11 22:58	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/11/11 22:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/11/11 22:58	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/11/11 22:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/11/11 22:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/11/11 22:58	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/11/11 22:58	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/11/11 22:58	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/11/11 22:58	1330-20-7	
4-Bromofluorobenzene (S)	101	%	70-130		1		02/11/11 22:58	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		1		02/11/11 22:58	1868-53-7	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		02/11/11 22:58	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		02/11/11 22:58	2037-26-5	

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QUALITY CONTROL DATA

Project: WAYNE MSWLF - SW SHARED
Pace Project No.: 9287513

QC Batch: MPRP/7865 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 9287513001, 9287513002, 9287513003

METHOD BLANK: 562887 Matrix: Water
Associated Lab Samples: 9287513001, 9287513002, 9287513003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	6.0	02/23/11 05:42	
Arsenic	ug/L	ND	10.0	02/23/11 05:42	
Barium	ug/L	0.26J	100	02/23/11 05:42	
Beryllium	ug/L	ND	1.0	02/23/11 05:42	
Cadmium	ug/L	ND	1.0	02/23/11 05:42	
Chromium	ug/L	ND	10.0	02/23/11 05:42	
Cobalt	ug/L	ND	10.0	02/23/11 05:42	
Copper	ug/L	ND	10.0	02/23/11 05:42	
Lead	ug/L	ND	10.0	02/23/11 05:42	
Nickel	ug/L	ND	50.0	02/23/11 05:42	
Selenium	ug/L	ND	10.0	02/23/11 05:42	
Silver	ug/L	ND	10.0	02/23/11 05:42	
Thallium	ug/L	ND	5.5	02/23/11 05:42	
Vanadium	ug/L	ND	25.0	02/23/11 05:42	
Zinc	ug/L	3.7J	10.0	02/23/11 05:42	

LABORATORY CONTROL SAMPLE: 562888

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	477	95	80-120	
Arsenic	ug/L	500	474	95	80-120	
Barium	ug/L	500	485	97	80-120	
Beryllium	ug/L	500	483	97	80-120	
Cadmium	ug/L	500	474	95	80-120	
Chromium	ug/L	500	463	93	80-120	
Cobalt	ug/L	500	478	96	80-120	
Copper	ug/L	500	481	96	80-120	
Lead	ug/L	500	483	97	80-120	
Nickel	ug/L	500	477	95	80-120	
Selenium	ug/L	500	470	94	80-120	
Silver	ug/L	250	244	98	80-120	
Thallium	ug/L	500	472	94	80-120	
Vanadium	ug/L	500	471	94	80-120	
Zinc	ug/L	500	468	94	80-120	

MATRIX SPIKE SAMPLE: 562889

Parameter	Units	9287361001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	473	95	75-125	
Arsenic	ug/L	ND	500	478	96	75-125	

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QUALITY CONTROL DATA

Project: WAYNE MSWLF - SW SHARED
Pace Project No.: 9287513

MATRIX SPIKE SAMPLE: 562889

Parameter	Units	9287361001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	70.5	500	542	94	75-125	
Beryllium	ug/L	ND	500	473	95	75-125	
Cadmium	ug/L	ND	500	462	92	75-125	
Chromium	ug/L	7.9	500	461	91	75-125	
Cobalt	ug/L	ND	500	467	93	75-125	
Copper	ug/L	0.30J	500	479	96	75-125	
Lead	ug/L	ND	500	461	92	75-125	
Nickel	ug/L	ND	500	464	93	75-125	
Selenium	ug/L	ND	500	476	95	75-125	
Silver	ug/L	0.66J	250	240	96	75-125	
Thallium	ug/L	ND	500	462	92	75-125	
Vanadium	ug/L	0.82J	500	467	93	75-125	
Zinc	ug/L	3.6J	500	462	92	75-125	

SAMPLE DUPLICATE: 562890

Parameter	Units	9287361002 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	ND	ND		25	
Arsenic	ug/L	3.3J	ND		25	
Barium	ug/L	61.0	62.6J	3	25	
Beryllium	ug/L	ND	ND		25	
Cadmium	ug/L	ND	ND		25	
Chromium	ug/L	0.74J	0.43J		25	
Cobalt	ug/L	4.9J	ND		25	
Copper	ug/L	ND	ND		25	
Lead	ug/L	ND	ND		25	
Nickel	ug/L	ND	ND		25	
Selenium	ug/L	31.8	29.0	9	25	
Silver	ug/L	1.7J	1.7J		25	
Thallium	ug/L	8.6	4.2J		25	
Vanadium	ug/L	0.22J	ND		25	
Zinc	ug/L	3.9J	3.6J		25	

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QUALITY CONTROL DATA

Project: WAYNE MSWLF - SW SHARED
Pace Project No.: 9287513

QC Batch: MSV/14019 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 9287513001, 9287513002, 9287513003

METHOD BLANK: 563189 Matrix: Water
Associated Lab Samples: 9287513001, 9287513002, 9287513003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	02/11/11 21:26	
1,1,1-Trichloroethane	ug/L	ND	1.0	02/11/11 21:26	
1,1,2,2-Tetrachloroethane	ug/L	ND	3.0	02/11/11 21:26	
1,1,2-Trichloroethane	ug/L	ND	1.0	02/11/11 21:26	
1,1-Dichloroethane	ug/L	ND	5.0	02/11/11 21:26	
1,1-Dichloroethene	ug/L	ND	5.0	02/11/11 21:26	
1,2,3-Trichloropropane	ug/L	ND	1.0	02/11/11 21:26	
1,2-Dibromo-3-chloropropane	ug/L	ND	13.0	02/11/11 21:26	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	02/11/11 21:26	
1,2-Dichlorobenzene	ug/L	ND	5.0	02/11/11 21:26	
1,2-Dichloroethane	ug/L	ND	1.0	02/11/11 21:26	
1,2-Dichloropropane	ug/L	ND	1.0	02/11/11 21:26	
1,3-Dichloropropane	ug/L	ND	1.0	02/11/11 21:26	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/11/11 21:26	
2-Butanone (MEK)	ug/L	ND	100	02/11/11 21:26	
2-Hexanone	ug/L	ND	50.0	02/11/11 21:26	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	02/11/11 21:26	
Acetone	ug/L	ND	100	02/11/11 21:26	
Acrylonitrile	ug/L	ND	200	02/11/11 21:26	
Benzene	ug/L	ND	1.0	02/11/11 21:26	
Bromochloromethane	ug/L	ND	3.0	02/11/11 21:26	
Bromodichloromethane	ug/L	ND	1.0	02/11/11 21:26	
Bromoform	ug/L	ND	3.0	02/11/11 21:26	
Bromomethane	ug/L	ND	10.0	02/11/11 21:26	
Carbon disulfide	ug/L	ND	100	02/11/11 21:26	
Carbon tetrachloride	ug/L	ND	1.0	02/11/11 21:26	
Chlorobenzene	ug/L	ND	3.0	02/11/11 21:26	
Chloroethane	ug/L	ND	10.0	02/11/11 21:26	
Chloroform	ug/L	ND	5.0	02/11/11 21:26	
Chloromethane	ug/L	ND	1.0	02/11/11 21:26	
cis-1,2-Dichloroethene	ug/L	ND	5.0	02/11/11 21:26	
cis-1,3-Dichloropropene	ug/L	ND	1.0	02/11/11 21:26	
Dibromochloromethane	ug/L	ND	3.0	02/11/11 21:26	
Dibromomethane	ug/L	ND	10.0	02/11/11 21:26	
Ethylbenzene	ug/L	ND	1.0	02/11/11 21:26	
Iodomethane	ug/L	ND	10.0	02/11/11 21:26	
Methylene Chloride	ug/L	ND	1.0	02/11/11 21:26	
Styrene	ug/L	ND	1.0	02/11/11 21:26	
Tetrachloroethene	ug/L	ND	1.0	02/11/11 21:26	
Toluene	ug/L	ND	1.0	02/11/11 21:26	
trans-1,2-Dichloroethene	ug/L	ND	5.0	02/11/11 21:26	
trans-1,3-Dichloropropene	ug/L	ND	1.0	02/11/11 21:26	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	02/11/11 21:26	

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QUALITY CONTROL DATA

Project: WAYNE MSWLF - SW SHARED
Pace Project No.: 9287513

METHOD BLANK: 563189 Matrix: Water

Associated Lab Samples: 9287513001, 9287513002, 9287513003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichloroethene	ug/L	ND	1.0	02/11/11 21:26	
Trichlorofluoromethane	ug/L	ND	1.0	02/11/11 21:26	
Vinyl acetate	ug/L	ND	50.0	02/11/11 21:26	
Vinyl chloride	ug/L	ND	1.0	02/11/11 21:26	
Xylene (Total)	ug/L	ND	5.0	02/11/11 21:26	
1,2-Dichloroethane-d4 (S)	%	95	70-130	02/11/11 21:26	
4-Bromofluorobenzene (S)	%	100	70-130	02/11/11 21:26	
Dibromofluoromethane (S)	%	95	70-130	02/11/11 21:26	
Toluene-d8 (S)	%	93	70-130	02/11/11 21:26	

LABORATORY CONTROL SAMPLE: 563190

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	48.5	97	70-130	
1,1,1-Trichloroethane	ug/L	50	45.6	91	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	43.7	87	70-130	
1,1,2-Trichloroethane	ug/L	50	46.8	94	70-130	
1,1-Dichloroethane	ug/L	50	44.9	90	70-130	
1,1-Dichloroethene	ug/L	50	46.9	94	70-132	
1,2,3-Trichloropropane	ug/L	50	45.5	91	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	43.5	87	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	48.8	98	70-130	
1,2-Dichlorobenzene	ug/L	50	51.0	102	70-130	
1,2-Dichloroethane	ug/L	50	43.1	86	70-130	
1,2-Dichloropropane	ug/L	50	47.1	94	70-130	
1,3-Dichloropropane	ug/L	50	50.2	100	70-130	
1,4-Dichlorobenzene	ug/L	50	47.8	96	70-130	
2-Butanone (MEK)	ug/L	100	78.7J	79	70-145	
2-Hexanone	ug/L	100	87.1	87	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	100	84.9J	85	70-140	
Acetone	ug/L	100	72.1J	72	50-175	
Acrylonitrile	ug/L	250	209	84	70-143	
Benzene	ug/L	50	48.1	96	70-130	
Bromochloromethane	ug/L	50	46.2	92	70-130	
Bromodichloromethane	ug/L	50	47.5	95	70-130	
Bromoform	ug/L	50	48.7	97	70-130	
Bromomethane	ug/L	50	57.5	115	54-130	
Carbon disulfide	ug/L	50	48.4J	97	70-131	
Carbon tetrachloride	ug/L	50	49.2	98	70-132	
Chlorobenzene	ug/L	50	47.9	96	70-130	
Chloroethane	ug/L	50	48.8	98	64-134	
Chloroform	ug/L	50	44.6	89	70-130	
Chloromethane	ug/L	50	47.7	95	64-130	
cis-1,2-Dichloroethene	ug/L	50	45.1	90	70-131	
cis-1,3-Dichloropropene	ug/L	50	46.1	92	70-130	

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QUALITY CONTROL DATA

Project: WAYNE MSWLF - SW SHARED
Pace Project No.: 9287513

LABORATORY CONTROL SAMPLE: 563190

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromochloromethane	ug/L	50	49.3	99	70-130	
Dibromomethane	ug/L	50	46.5	93	70-131	
Ethylbenzene	ug/L	50	52.5	105	70-130	
Iodomethane	ug/L	100	99.4	99	49-180	
Methylene Chloride	ug/L	50	48.3	97	63-130	
Styrene	ug/L	50	50.4	101	70-130	
Tetrachloroethene	ug/L	50	51.3	103	70-130	
Toluene	ug/L	50	48.0	96	70-130	
trans-1,2-Dichloroethene	ug/L	50	45.9	92	70-130	
trans-1,3-Dichloropropene	ug/L	50	46.1	92	70-132	
trans-1,4-Dichloro-2-butene	ug/L	50	42.7J	85	70-141	
Trichloroethene	ug/L	50	51.8	104	70-130	
Trichlorofluoromethane	ug/L	50	50.4	101	62-133	
Vinyl acetate	ug/L	100	95.2	95	66-157	
Vinyl chloride	ug/L	50	53.9	108	69-130	
Xylene (Total)	ug/L	150	153	102	70-130	
1,2-Dichloroethane-d4 (S)	%			89	70-130	
4-Bromofluorobenzene (S)	%			104	70-130	
Dibromofluoromethane (S)	%			94	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 563191 563192

Parameter	Units	9287514001 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	43.1	40.2	86	80	70-166	7	30	
Benzene	ug/L	ND	50	50	49.0	45.2	98	90	70-148	8	30	
Chlorobenzene	ug/L	ND	50	50	54.2	49.8	108	99	70-146	9	30	
Toluene	ug/L	ND	50	50	50.6	47.2	101	94	70-155	7	30	
Trichloroethene	ug/L	ND	50	50	43.3	40.8	87	82	69-151	6	30	
1,2-Dichloroethane-d4 (S)	%						97	98	70-130			
4-Bromofluorobenzene (S)	%						100	98	70-130			
Dibromofluoromethane (S)	%						94	94	70-130			
Toluene-d8 (S)	%						89	90	70-130			

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QUALIFIERS

Project: WAYNE MSWLF - SW SHARED
Pace Project No.: 9287513

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.

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.

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

LABORATORIES

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

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CHAIN-OF-CUSTODY / Analytical Request Document

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

These Are All the Samples for this Report

Page: 1 of 1

1448170

Section A Required Client Information:

Company: Municipal Engineering Services
Address: PO Box 97
Garner NC 27529
Email To: jpfohl@mesco.com
Phone: (919) 772-5343 Fax: (919) 772-1176
Requested Due Date/TAT: Standard

Section B Required Project Information:

Report To: Jon Pfohl
Copy To: mgerman@mesco.com
Purchase Order No.:
Project Name: Wayne MSWLF - SW Shared
Project Number:

Section C Invoice Information:

Attention: See A
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Kevin Godwin
Pace Profile #: 2103-3

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER

Site Location STATE: NC

Section D Required Client Information

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

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	VOCs - App I	~~VOCs - A~~	Metals - App I	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SW-1	WT	G			2/8/11	9:55		4			1	3						✓		✓	N	9287513 001
2	SW-2						9:25																002
3	SW-3						9:00																003
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

Requested Analysis Filtered (Y/N): N

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
SW-3 Furthest West & upstream nearest MW-4 (closed) is DRY	MESCO	2/8/11	6:35PM	Pace	2/9/11	1030				
SW-3 sampled is nearest MW-5 closed	Pace	2/9/11	Left office 1640	Pace	2/9/11	1640	3.0	Y	N	Y
SW-2 Mid stream Just downstream of Access Rd										

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jonathan Pfohl

SIGNATURE of SAMPLER:

DATE Signed (MM/DD/YY): 2/8/11

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15 Nov 2007

Sample Condition Upon Receipt

Pace Analytical

Client Name: Municipal Engineering Services Project # 9287513

Where Received: ☑ Huntersville ☐ Asheville ☐ Eden

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 : T904 **Type of Ice:** (Wet) Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor: Add / Subtract _____0_____C

Corrected Cooler Temp.: 3.0 C **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C

Optional
Proj. Due Date:
Proj. Name:

Date and Initials of person examining contents: 2/9/11

		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. Missing Time and Date on Bottles
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

CURF Review: V. Good Date: 2/9/11 **SRF Review:** V. Good Date: 2/10/11

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

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CHAIN-OF-CUSTODY / Analytical Request Document

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

These Are All the Samples for this Report

Page: 1 of 1

1448170

Section A Required Client Information:

Company: [illegible]
Address: PO Box 97
[illegible] NC 27529
Email To: [illegible]@mesco.com
Phone: (919) 772-1393 Fax: (919) 772-1176
Requested Due Date/TAT: [illegible]

Section B Required Project Information:

Report To: Jon Pfohl
Copy To: [illegible]@mesco.com
Purchase Order No.:
Project Name: Wayne MSWLF - GW Sampling
Project Number:

Section C Invoice Information:

Attention: See A
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: [illegible] Godwin
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER _____

Site Location STATE: NC

Section D Required Client Information

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

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SW-1	WT	G			2/9/11	9:55		5			1	3						N	
2	SW-2						9:25													
3	SW-3					↓	9:00													
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
SW-3 Furthest West & upstream	[illegible] MESCO	2/9/11	6:35PM	[illegible] PACE	2/9/11	1000	
Nearest MW-4 (road) is DRY							
SW-2 Sample [illegible]							
SW-2 [illegible] Access Rd							

4

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jonathan Pfohl

SIGNATURE of SAMPLER: [illegible] DATE Signed (MM/DD/YY): 2/9/11

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

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

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

March 02, 2011

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

RE: Project: WAYNE BLANKS
Pace Project No.: 9287624

Dear Mr. Pfohl:
Enclosed are the analytical results for sample(s) received by the laboratory on February 10, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated 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

cc: Ms. Maggie German, Municipal Engineering Services

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CERTIFICATIONS

Project: WAYNE BLANKS
Pace Project No.: 9287624

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
Pennsylvania Certification #: 68-00784
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Virginia Certification #: 00213
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DHH Drinking Water # LA 100031
West Virginia Certification #: 357

Asheville Certification IDs

2225 Riverside Dr., Asheville, NC 28804
Connecticut Certification #: PH-0106
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
New Jersey Certification #: NC011
North Carolina Bioassay Certification #: 9
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
Pennsylvania Certification #: 68-03578
South Carolina Bioassay Certification #: 99030002
South Carolina Certification #: 99030001
Virginia Certification #: 00072
West Virginia Certification #: 356

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SAMPLE SUMMARY

Project: WAYNE BLANKS
Pace Project No.: 9287624

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9287624001	**EB**	Water	02/09/11 10:00	02/10/11 15:43
9287624002	**FB**	Water	02/09/11 10:40	02/10/11 15:43
9287624003	**TB**	Water	02/09/11 00:00	02/10/11 15:43

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SAMPLE ANALYTE COUNT

Project: WAYNE BLANKS
Pace Project No.: 9287624

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9287624001	**EB**	EPA 6010	JMW	16	PASI-A
		EPA 7470	EWS	1	PASI-A
		EPA 8260	TLS	68	PASI-C
9287624002	**FB**	EPA 8260	TLS	68	PASI-C
9287624003	**TB**	EPA 8260	TLS	68	PASI-C

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ANALYTICAL RESULTS

Project: WAYNE BLANKS
Pace Project No.: 9287624

Sample: EB **Lab ID: 9287624001** Collected: 02/09/11 10:00 Received: 02/10/11 15:43 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	2.6	1	02/12/11 09:45	02/24/11 21:29	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	02/12/11 09:45	02/24/11 21:29	7440-38-2	
Barium	**14.3J**	ug/L	100	0.20	1	02/12/11 09:45	02/24/11 21:29	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	02/12/11 09:45	02/24/11 21:29	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	02/12/11 09:45	02/24/11 21:29	7440-43-9	
Chromium	ND	ug/L	10.0	0.40	1	02/12/11 09:45	02/24/11 21:29	7440-47-3	
Cobalt	**3.4J**	ug/L	10.0	0.60	1	02/12/11 09:45	02/24/11 21:29	7440-48-4	
Copper	ND	ug/L	10.0	0.30	1	02/12/11 09:45	02/24/11 21:29	7440-50-8	
Lead	ND	ug/L	10.0	4.0	1	02/12/11 09:45	02/24/11 21:29	7439-92-1	
Nickel	**6.6J**	ug/L	50.0	1.7	1	02/12/11 09:45	02/24/11 21:29	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	02/12/11 09:45	02/24/11 21:29	7782-49-2	
Silver	ND	ug/L	10.0	0.10	1	02/12/11 09:45	02/24/11 21:29	7440-22-4	
Thallium	ND	ug/L	5.5	3.0	1	02/12/11 09:45	02/24/11 21:29	7440-28-0	
Tin	**2.4J**	ug/L	100	1.8	1	02/12/11 09:45	02/24/11 21:29	7440-31-5	
Vanadium	ND	ug/L	25.0	0.20	1	02/12/11 09:45	02/24/11 21:29	7440-62-2	
Zinc	**32.6**	ug/L	10.0	0.40	1	02/12/11 09:45	02/24/11 21:29	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	02/22/11 16:30	03/01/11 17:42	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		02/12/11 03:54	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		02/12/11 03:54	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		02/12/11 03:54	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		02/12/11 03:54	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		02/12/11 03:54	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		02/12/11 03:54	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/12/11 03:54	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/12/11 03:54	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/12/11 03:54	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/12/11 03:54	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/12/11 03:54	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/12/11 03:54	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/12/11 03:54	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/12/11 03:54	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/12/11 03:54	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/12/11 03:54	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/12/11 03:54	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		02/12/11 03:54	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/12/11 03:54	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/12/11 03:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/12/11 03:54	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/12/11 03:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/12/11 03:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		02/12/11 03:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/12/11 03:54	106-46-7	

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ANALYTICAL RESULTS

Project: WAYNE BLANKS
Pace Project No.: 9287624

Sample: EB **Lab ID: 9287624001** Collected: 02/09/11 10:00 Received: 02/10/11 15:43 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		02/12/11 03:54	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		02/12/11 03:54	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/12/11 03:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/12/11 03:54	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/12/11 03:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/12/11 03:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/12/11 03:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/12/11 03:54	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/12/11 03:54	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		02/12/11 03:54	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		02/12/11 03:54	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/12/11 03:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/12/11 03:54	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/12/11 03:54	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		02/12/11 03:54	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		02/12/11 03:54	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/12/11 03:54	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/12/11 03:54	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		02/12/11 03:54	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		02/12/11 03:54	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/12/11 03:54	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		02/12/11 03:54	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/12/11 03:54	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		02/12/11 03:54	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		02/12/11 03:54	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		02/12/11 03:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/12/11 03:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/12/11 03:54	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/12/11 03:54	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/12/11 03:54	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		02/12/11 03:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/12/11 03:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/12/11 03:54	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/12/11 03:54	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/12/11 03:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/12/11 03:54	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/12/11 03:54	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/12/11 03:54	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/12/11 03:54	1330-20-7	
4-Bromofluorobenzene (S)	104	%	70-130		1		02/12/11 03:54	460-00-4	
Dibromofluoromethane (S)	94	%	70-130		1		02/12/11 03:54	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		02/12/11 03:54	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		02/12/11 03:54	2037-26-5	

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ANALYTICAL RESULTS

Project: WAYNE BLANKS
Pace Project No.: 9287624

Sample: FB **Lab ID: 9287624002** Collected: 02/09/11 10:40 Received: 02/10/11 15:43 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	2.2	1		02/12/11 04:17	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		02/12/11 04:17	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		02/12/11 04:17	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		02/12/11 04:17	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		02/12/11 04:17	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		02/12/11 04:17	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/12/11 04:17	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/12/11 04:17	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/12/11 04:17	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/12/11 04:17	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/12/11 04:17	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/12/11 04:17	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/12/11 04:17	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/12/11 04:17	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/12/11 04:17	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/12/11 04:17	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/12/11 04:17	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		02/12/11 04:17	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/12/11 04:17	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/12/11 04:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/12/11 04:17	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/12/11 04:17	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/12/11 04:17	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		02/12/11 04:17	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/12/11 04:17	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/12/11 04:17	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		02/12/11 04:17	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/12/11 04:17	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/12/11 04:17	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/12/11 04:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/12/11 04:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/12/11 04:17	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/12/11 04:17	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/12/11 04:17	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		02/12/11 04:17	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		02/12/11 04:17	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/12/11 04:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/12/11 04:17	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/12/11 04:17	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		02/12/11 04:17	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		02/12/11 04:17	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/12/11 04:17	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/12/11 04:17	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		02/12/11 04:17	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		02/12/11 04:17	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/12/11 04:17	75-09-2	

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ANALYTICAL RESULTS

Project: WAYNE BLANKS
Pace Project No.: 9287624

Sample: FB **Lab ID: 9287624002** Collected: 02/09/11 10:40 Received: 02/10/11 15:43 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		02/12/11 04:17	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/12/11 04:17	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		02/12/11 04:17	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		02/12/11 04:17	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		02/12/11 04:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/12/11 04:17	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/12/11 04:17	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/12/11 04:17	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/12/11 04:17	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		02/12/11 04:17	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/12/11 04:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/12/11 04:17	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/12/11 04:17	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/12/11 04:17	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/12/11 04:17	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/12/11 04:17	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/12/11 04:17	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/12/11 04:17	1330-20-7	
4-Bromofluorobenzene (S)	101	%	70-130		1		02/12/11 04:17	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		02/12/11 04:17	1868-53-7	
1,2-Dichloroethane-d4 (S)	116	%	70-130		1		02/12/11 04:17	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		02/12/11 04:17	2037-26-5	

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ANALYTICAL RESULTS

Project: WAYNE BLANKS
Pace Project No.: 9287624

Sample: TB **Lab ID: 9287624003** Collected: 02/09/11 00:00 Received: 02/10/11 15:43 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	2.2	1		02/12/11 04:40	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		02/12/11 04:40	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		02/12/11 04:40	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		02/12/11 04:40	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		02/12/11 04:40	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		02/12/11 04:40	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/12/11 04:40	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/12/11 04:40	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/12/11 04:40	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/12/11 04:40	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/12/11 04:40	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/12/11 04:40	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/12/11 04:40	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/12/11 04:40	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/12/11 04:40	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/12/11 04:40	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/12/11 04:40	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		02/12/11 04:40	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/12/11 04:40	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/12/11 04:40	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/12/11 04:40	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/12/11 04:40	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/12/11 04:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		02/12/11 04:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/12/11 04:40	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/12/11 04:40	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		02/12/11 04:40	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/12/11 04:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/12/11 04:40	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/12/11 04:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/12/11 04:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/12/11 04:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/12/11 04:40	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/12/11 04:40	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		02/12/11 04:40	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		02/12/11 04:40	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/12/11 04:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/12/11 04:40	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/12/11 04:40	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		02/12/11 04:40	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		02/12/11 04:40	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/12/11 04:40	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/12/11 04:40	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		02/12/11 04:40	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		02/12/11 04:40	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		02/12/11 04:40	75-09-2	

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ANALYTICAL RESULTS

Project: WAYNE BLANKS
Pace Project No.: 9287624

Sample: TB **Lab ID: 9287624003** Collected: 02/09/11 00:00 Received: 02/10/11 15:43 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		02/12/11 04:40	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/12/11 04:40	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		02/12/11 04:40	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		02/12/11 04:40	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		02/12/11 04:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/12/11 04:40	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/12/11 04:40	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/12/11 04:40	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/12/11 04:40	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		02/12/11 04:40	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/12/11 04:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/12/11 04:40	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/12/11 04:40	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/12/11 04:40	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/12/11 04:40	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/12/11 04:40	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/12/11 04:40	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		02/12/11 04:40	1330-20-7	
4-Bromofluorobenzene (S)	101	%	70-130		1		02/12/11 04:40	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		02/12/11 04:40	1868-53-7	
1,2-Dichloroethane-d4 (S)	113	%	70-130		1		02/12/11 04:40	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		02/12/11 04:40	2037-26-5	

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QUALITY CONTROL DATA

Project: WAYNE BLANKS
Pace Project No.: 9287624

QC Batch: MPRP/7866
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 9287624001

METHOD BLANK: 562891
Matrix: Water
Associated Lab Samples: 9287624001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	6.0	02/24/11 19:59	
Arsenic	ug/L	2.9J	10.0	02/24/11 19:59	
Barium	ug/L	ND	100	02/24/11 19:59	
Beryllium	ug/L	ND	1.0	02/24/11 19:59	
Cadmium	ug/L	ND	1.0	02/24/11 19:59	
Chromium	ug/L	ND	10.0	02/24/11 19:59	
Cobalt	ug/L	3.6J	10.0	02/24/11 19:59	
Copper	ug/L	ND	10.0	02/24/11 19:59	
Lead	ug/L	ND	10.0	02/24/11 19:59	
Nickel	ug/L	ND	50.0	02/24/11 19:59	
Selenium	ug/L	ND	10.0	02/24/11 19:59	
Silver	ug/L	ND	10.0	02/24/11 19:59	
Thallium	ug/L	ND	5.5	02/24/11 19:59	
Tin	ug/L	ND	100	02/24/11 19:59	
Vanadium	ug/L	ND	25.0	02/24/11 19:59	
Zinc	ug/L	2.6J	10.0	02/24/11 19:59	

LABORATORY CONTROL SAMPLE: 562892

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	494	99	80-120	
Arsenic	ug/L	500	489	98	80-120	
Barium	ug/L	500	495	99	80-120	
Beryllium	ug/L	500	507	101	80-120	
Cadmium	ug/L	500	505	101	80-120	
Chromium	ug/L	500	496	99	80-120	
Cobalt	ug/L	500	500	100	80-120	
Copper	ug/L	500	492	98	80-120	
Lead	ug/L	500	498	100	80-120	
Nickel	ug/L	500	500	100	80-120	
Selenium	ug/L	500	479	96	80-120	
Silver	ug/L	250	251	100	80-120	
Thallium	ug/L	500	470	94	80-120	
Tin	ug/L	500	508	102	80-120	
Vanadium	ug/L	500	495	99	80-120	
Zinc	ug/L	500	492	98	80-120	

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QUALITY CONTROL DATA

Project: WAYNE BLANKS
Pace Project No.: 9287624

MATRIX SPIKE SAMPLE: 562893

Parameter	Units	9287515009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	480	96	75-125	
Arsenic	ug/L	ND	500	482	96	75-125	
Barium	ug/L	34.4J	500	513	96	75-125	
Beryllium	ug/L	ND	500	497	99	75-125	
Cadmium	ug/L	ND	500	491	98	75-125	
Chromium	ug/L	0.74J	500	484	97	75-125	
Cobalt	ug/L	ND	500	484	97	75-125	
Copper	ug/L	0.52J	500	480	96	75-125	
Lead	ug/L	ND	500	478	96	75-125	
Nickel	ug/L	ND	500	485	97	75-125	
Selenium	ug/L	ND	500	476	95	75-125	
Silver	ug/L	ND	250	246	98	75-125	
Thallium	ug/L	ND	500	457	91	75-125	
Tin	ug/L	ND	500	491	98	75-125	
Vanadium	ug/L	0.86J	500	484	97	75-125	
Zinc	ug/L	1.5J	500	480	96	75-125	

SAMPLE DUPLICATE: 562894

Parameter	Units	9287515010 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	ND	ND		25	
Arsenic	ug/L	3.2J	3.2J		25	
Barium	ug/L	32.8J	33.9J	3	25	
Beryllium	ug/L	0.17J	0.16J		25	
Cadmium	ug/L	ND	ND		25	
Chromium	ug/L	1.7J	2.1J		25	
Cobalt	ug/L	1.7J	4.5J		25	
Copper	ug/L	ND	ND		25	
Lead	ug/L	ND	ND		25	
Nickel	ug/L	ND	2.3J		25	
Selenium	ug/L	7.8J	ND		25	
Silver	ug/L	ND	ND		25	
Thallium	ug/L	8.7	ND		25	
Tin	ug/L	ND	ND		25	
Vanadium	ug/L	2.0J	2.5J		25	
Zinc	ug/L	3.7J	7.3J		25	

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QUALITY CONTROL DATA

Project: WAYNE BLANKS
Pace Project No.: 9287624

QC Batch: MERP/3307
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Associated Lab Samples: 9287624001

METHOD BLANK: 567606
Matrix: Water
Associated Lab Samples: 9287624001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	03/01/11 16:27	

LABORATORY CONTROL SAMPLE: 567607

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.5	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 567608 567609

Parameter	Units	9287298031 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	2.4	2.4	98	94	75-125	4	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 567610 567611

Parameter	Units	9287512001 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	2.7	2.5	107	100	75-125	7	25	

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QUALITY CONTROL DATA

Project: WAYNE BLANKS
Pace Project No.: 9287624

QC Batch: MSV/14019 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 9287624001, 9287624002, 9287624003

METHOD BLANK: 563189 Matrix: Water
Associated Lab Samples: 9287624001, 9287624002, 9287624003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	02/11/11 21:26	
1,1,1-Trichloroethane	ug/L	ND	1.0	02/11/11 21:26	
1,1,2,2-Tetrachloroethane	ug/L	ND	3.0	02/11/11 21:26	
1,1,2-Trichloroethane	ug/L	ND	1.0	02/11/11 21:26	
1,1-Dichloroethane	ug/L	ND	5.0	02/11/11 21:26	
1,1-Dichloroethene	ug/L	ND	5.0	02/11/11 21:26	
1,1-Dichloropropene	ug/L	ND	5.0	02/11/11 21:26	
1,2,3-Trichloropropane	ug/L	ND	1.0	02/11/11 21:26	
1,2,4-Trichlorobenzene	ug/L	ND	10.0	02/11/11 21:26	
1,2-Dibromo-3-chloropropane	ug/L	ND	13.0	02/11/11 21:26	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	02/11/11 21:26	
1,2-Dichlorobenzene	ug/L	ND	5.0	02/11/11 21:26	
1,2-Dichloroethane	ug/L	ND	1.0	02/11/11 21:26	
1,2-Dichloropropane	ug/L	ND	1.0	02/11/11 21:26	
1,3-Dichlorobenzene	ug/L	ND	5.0	02/11/11 21:26	
1,3-Dichloropropane	ug/L	ND	1.0	02/11/11 21:26	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/11/11 21:26	
2,2-Dichloropropane	ug/L	ND	15.0	02/11/11 21:26	
2-Butanone (MEK)	ug/L	ND	100	02/11/11 21:26	
2-Hexanone	ug/L	ND	50.0	02/11/11 21:26	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	02/11/11 21:26	
Acetone	ug/L	ND	100	02/11/11 21:26	
Acetonitrile	ug/L	ND	55.0	02/11/11 21:26	
Acrolein	ug/L	ND	53.0	02/11/11 21:26	
Acrylonitrile	ug/L	ND	200	02/11/11 21:26	
Allyl chloride	ug/L	ND	10.0	02/11/11 21:26	
Benzene	ug/L	ND	1.0	02/11/11 21:26	
Bromochloromethane	ug/L	ND	3.0	02/11/11 21:26	
Bromodichloromethane	ug/L	ND	1.0	02/11/11 21:26	
Bromoform	ug/L	ND	3.0	02/11/11 21:26	
Bromomethane	ug/L	ND	10.0	02/11/11 21:26	
Carbon disulfide	ug/L	ND	100	02/11/11 21:26	
Carbon tetrachloride	ug/L	ND	1.0	02/11/11 21:26	
Chlorobenzene	ug/L	ND	3.0	02/11/11 21:26	
Chloroethane	ug/L	ND	10.0	02/11/11 21:26	
Chloroform	ug/L	ND	5.0	02/11/11 21:26	
Chloromethane	ug/L	ND	1.0	02/11/11 21:26	
Chloroprene	ug/L	ND	20.0	02/11/11 21:26	
cis-1,2-Dichloroethene	ug/L	ND	5.0	02/11/11 21:26	
cis-1,3-Dichloropropene	ug/L	ND	1.0	02/11/11 21:26	
Dibromochloromethane	ug/L	ND	3.0	02/11/11 21:26	
Dibromomethane	ug/L	ND	10.0	02/11/11 21:26	
Dichlorodifluoromethane	ug/L	ND	5.0	02/11/11 21:26	

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QUALITY CONTROL DATA

Project: WAYNE BLANKS
Pace Project No.: 9287624

METHOD BLANK: 563189 Matrix: Water

Associated Lab Samples: 9287624001, 9287624002, 9287624003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethyl methacrylate	ug/L	ND	10.0	02/11/11 21:26	
Ethylbenzene	ug/L	ND	1.0	02/11/11 21:26	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	02/11/11 21:26	
Iodomethane	ug/L	ND	10.0	02/11/11 21:26	
Isobutanol	ug/L	ND	100	02/11/11 21:26	
Methacrylonitrile	ug/L	ND	100	02/11/11 21:26	
Methyl methacrylate	ug/L	ND	30.0	02/11/11 21:26	
Methylene Chloride	ug/L	ND	1.0	02/11/11 21:26	
Naphthalene	ug/L	ND	10.0	02/11/11 21:26	
Propionitrile	ug/L	ND	150	02/11/11 21:26	
Styrene	ug/L	ND	1.0	02/11/11 21:26	
Tetrachloroethene	ug/L	ND	1.0	02/11/11 21:26	
Toluene	ug/L	ND	1.0	02/11/11 21:26	
trans-1,2-Dichloroethene	ug/L	ND	5.0	02/11/11 21:26	
trans-1,3-Dichloropropene	ug/L	ND	1.0	02/11/11 21:26	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	02/11/11 21:26	
Trichloroethene	ug/L	ND	1.0	02/11/11 21:26	
Trichlorofluoromethane	ug/L	ND	1.0	02/11/11 21:26	
Vinyl acetate	ug/L	ND	50.0	02/11/11 21:26	
Vinyl chloride	ug/L	ND	1.0	02/11/11 21:26	
Xylene (Total)	ug/L	ND	5.0	02/11/11 21:26	
1,2-Dichloroethane-d4 (S)	%	95	70-130	02/11/11 21:26	
4-Bromofluorobenzene (S)	%	100	70-130	02/11/11 21:26	
Dibromofluoromethane (S)	%	95	70-130	02/11/11 21:26	
Toluene-d8 (S)	%	93	70-130	02/11/11 21:26	

LABORATORY CONTROL SAMPLE: 563190

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	48.5	97	70-130	
1,1,1-Trichloroethane	ug/L	50	45.6	91	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	43.7	87	70-130	
1,1,2-Trichloroethane	ug/L	50	46.8	94	70-130	
1,1-Dichloroethane	ug/L	50	44.9	90	70-130	
1,1-Dichloroethene	ug/L	50	46.9	94	70-132	
1,1-Dichloropropene	ug/L	50	46.5	93	70-130	
1,2,3-Trichloropropane	ug/L	50	45.5	91	70-130	
1,2,4-Trichlorobenzene	ug/L	50	41.8	84	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	43.5	87	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	48.8	98	70-130	
1,2-Dichlorobenzene	ug/L	50	51.0	102	70-130	
1,2-Dichloroethane	ug/L	50	43.1	86	70-130	
1,2-Dichloropropane	ug/L	50	47.1	94	70-130	
1,3-Dichlorobenzene	ug/L	50	51.7	103	70-130	
1,3-Dichloropropane	ug/L	50	50.2	100	70-130	

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QUALITY CONTROL DATA

Project: WAYNE BLANKS
Pace Project No.: 9287624

LABORATORY CONTROL SAMPLE: 563190

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	47.8	96	70-130	
2,2-Dichloropropane	ug/L	50	44.6	89	58-145	
2-Butanone (MEK)	ug/L	100	78.7J	79	70-145	
2-Hexanone	ug/L	100	87.1	87	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	100	84.9J	85	70-140	
Acetone	ug/L	100	72.1J	72	50-175	
Acetonitrile	ug/L	500	406	81	70-130	
Acrolein	ug/L	250	211	85	70-130	
Acrylonitrile	ug/L	250	209	84	70-143	
Allyl chloride	ug/L	50	45.2	90	70-130	
Benzene	ug/L	50	48.1	96	70-130	
Bromochloromethane	ug/L	50	46.2	92	70-130	
Bromodichloromethane	ug/L	50	47.5	95	70-130	
Bromoform	ug/L	50	48.7	97	70-130	
Bromomethane	ug/L	50	57.5	115	54-130	
Carbon disulfide	ug/L	50	48.4J	97	70-131	
Carbon tetrachloride	ug/L	50	49.2	98	70-132	
Chlorobenzene	ug/L	50	47.9	96	70-130	
Chloroethane	ug/L	50	48.8	98	64-134	
Chloroform	ug/L	50	44.6	89	70-130	
Chloromethane	ug/L	50	47.7	95	64-130	
Chloroprene	ug/L	50	47.6	95	70-130	
cis-1,2-Dichloroethene	ug/L	50	45.1	90	70-131	
cis-1,3-Dichloropropene	ug/L	50	46.1	92	70-130	
Dibromochloromethane	ug/L	50	49.3	99	70-130	
Dibromomethane	ug/L	50	46.5	93	70-131	
Dichlorodifluoromethane	ug/L	50	43.8	88	56-130	
Ethyl methacrylate	ug/L	50	43.1	86	70-130	
Ethylbenzene	ug/L	50	52.5	105	70-130	
Hexachloro-1,3-butadiene	ug/L	50	52.4	105	70-130	
Iodomethane	ug/L	100	99.4	99	49-180	
Isobutanol	ug/L	1000	817	82	70-130	
Methacrylonitrile	ug/L	500	433	87	70-130	
Methyl methacrylate	ug/L	50	38.7	77	70-130	
Methylene Chloride	ug/L	50	48.3	97	63-130	
Naphthalene	ug/L	50	42.8	86	70-138	
Propionitrile	ug/L	500	412	82	70-130	
Styrene	ug/L	50	50.4	101	70-130	
Tetrachloroethene	ug/L	50	51.3	103	70-130	
Toluene	ug/L	50	48.0	96	70-130	
trans-1,2-Dichloroethene	ug/L	50	45.9	92	70-130	
trans-1,3-Dichloropropene	ug/L	50	46.1	92	70-132	
trans-1,4-Dichloro-2-butene	ug/L	50	42.7J	85	70-141	
Trichloroethene	ug/L	50	51.8	104	70-130	
Trichlorofluoromethane	ug/L	50	50.4	101	62-133	
Vinyl acetate	ug/L	100	95.2	95	66-157	
Vinyl chloride	ug/L	50	53.9	108	69-130	
Xylene (Total)	ug/L	150	153	102	70-130	

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QUALITY CONTROL DATA

Project: WAYNE BLANKS
Pace Project No.: 9287624

LABORATORY CONTROL SAMPLE: 563190

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%			89	70-130	
4-Bromofluorobenzene (S)	%			104	70-130	
Dibromofluoromethane (S)	%			94	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 563191 563192

Parameter	Units	9287514001 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	43.1	40.2	86	80	70-166	7	30	
Benzene	ug/L	ND	50	50	49.0	45.2	98	90	70-148	8	30	
Chlorobenzene	ug/L	ND	50	50	54.2	49.8	108	99	70-146	9	30	
Toluene	ug/L	ND	50	50	50.6	47.2	101	94	70-155	7	30	
Trichloroethene	ug/L	ND	50	50	43.3	40.8	87	82	69-151	6	30	
1,2-Dichloroethane-d4 (S)	%						97	98	70-130			
4-Bromofluorobenzene (S)	%						100	98	70-130			
Dibromofluoromethane (S)	%						94	94	70-130			
Toluene-d8 (S)	%						89	90	70-130			

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QUALIFIERS

Project: WAYNE BLANKS
Pace Project No.: 9287624

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.

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.

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

LABORATORIES

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

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

1448168

Section A Required Client Information:

Company: Municipal Engineering Services
Address: PO Box 97
Garner NC 27529
Email To: jpfohl@mesco.com
Phone: (919)772-5393 Fax: (919)772-1176
Requested Due Date/TAT: Standard

Section B Required Project Information:

Report To: Jonathan Pfohl
Copy To: Mgerman@mesco.com
Purchase Order No.:
Project Name: Wayne Blinks
Project Number:

Section C Invoice Information:

Attention: See A
Company Name:
Address:
Pace Quote Reference: 1
Pace Project Manager: Kevin Godwin
Pace Profile #: 2103-6

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER

Site Location STATE: NC

Section D Required Client Information

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

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N): N

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start Date	Composite Start Time	Composite End/Grab Date	Composite End/Grab Time	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: VOCs - App II	Analysis Test: Metals - App II	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	EB	WT	G			2/9/11	10:00		4			1	3					✓	✓	N	1287624 001
2	FB	↓	↓			2/9/11	10:40		3				3					✓			002
3	TB	↓	↓	PACE	Filled				2				2					✓			003
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Blinks for entire facility	[signature]	2-10-11	9:26	[signature] pace dk	2-10-11	9:26	
EB - D. Baker	[signature] pace dk	2-10-11	15:43	[signature]	2/10/11	15:43	2.9 yes no yes
DI H2O Provided By PACE							

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jonathan Pfohl

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 2/9/11

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

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Sample Condition Upon Receipt

Pace Analytical

Client Name: Municipal Project # 9287624

Where Received: ☑ Huntersville ☐ Asheville ☐ Eden

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 : T904 **Type of Ice:** (Wet) Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor: Add / Subtract _____0_____C

Corrected Cooler Temp.: 2.0 C **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C

Comments:

Date and Initials of person examining contents: UMM 2/10/11

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.
-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	Initial when completed
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☑Yes ☐No ☐N/A	16. no date / time
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:_____

CURF Review: [signature] Date: 2/10/11 **SRF Review:** [signature] Date: 2/11/11

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)

Field Sampling Parameter
Data Sheet(s)

Sampling Data Sheet

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

Sampler(s) J. Pfohl Page 1 of 1

Project: Wayne Co Closed MSWLF & Active C&D LF, Dudley

Joanny Snyder (Wayne Co.) on 2/18/11.

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: CO2 (mg/l)	DO (mg/L)	ORP	pH	Temp. ©	Specific Cond. (us/cm	TDS (mg/L)	Turbidity	CH4 Gas Vapors (ppm)
MW-1	2/8/11	3:00	19.64	MNA	11	P&DB	N	Needs GPS surveyed TAH Replaced	25	20	6.4	367	5.00	14.8	12	6	10.7 c	NR
MW-2	2/8/11	2:00	4.75	MNA	6	P&DB	N	Joanny Helped	15	>100	0.7	-38	6.57	11.5	1245	623	21.3 c	NR
MW-3	2/9/11	11:15	0.68	DM	12	DB	N	Red Algae	18	NR	0.2	399	4.46	15.0	38	16	c	NR
MW-4	2/8/11	12:40	7.10	DM	11	DB	N	-"-	15	NR	2.4	420	4.78	13.3	80	40	c	NR
MW-5	2/9/11	2:05	2.57	DM	10	DB	Y	Red Algae	18	NR	1.8	221	4.74	15.0	57	28	c	NR
MW-6	2/9/11	10:20	5.37	DM	13	DB	N		18.14	NR	1.7	88	5.67	15.1	238	116	c	NR
MW-7	2/9/11	9:45	8.00	DM	11	DB	N		19	NR	7.6	388	4.72	11.3	202	100	c	NR
MW-8	2/8/11	4:00	20.19	MNA	8	P&DB	N		29	>100	1.7	390	4.73	16.6	54	27	9.91 c	NR
MW-9	2/9/11	12:00	20.42	I VOCs	5	P&DB	N		~25	NR	4.5	298	4.70	16.0	43	21	>1,000 VT	NR
MW-10	2/9/11	1:35	19.37	I VOCs	11	P&DB	N	Rolloffs Bags Next 2 lift	~25	NR	4.6	362	4.82	16.5	57	29	>1,000 NTU VT	NR
MW-11	2/9/11	2:40	2.67	II VOCs	8	DB	N	very turbid	~15	NR	1.6	255	5.47	14.4	1068	531	>1,000 NTU VT	NR
SW-By MW-2	2/8/11	2:10	—	II VOCs only	—	Dip	—	[illegible]	Joanny Helped	NR	NR	71	6.93	8.4	606	303	c	NR
SW-2	NS	NS	DRY	—				upstream By MW-7									—	—

Tag replaced

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

Performed potentially contaminated MW-2 & MW-8 collection early due to projected hold time Logistics.

MW-1 Datum changed 8/12/11 & still needs 2B surveyed.

Sampling Data Sheet

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

Project: Wayne Co MSWLF, Dudley- Shared Surface Waters

Samplers: J. Pfohl Page_____of_____

Monitoring Point	Sample Date	Sample Time	Sampling Parameters: Lab Parameters to be analyzed for	Sample Type	Visual Gage Height	Visual Flow Rate	Notes	Water Quality Parameters: DO (mg/L)	ORP	pH	Temp. ©	Specific Cond. (us/cm	TDS (mg/L)	Turbidity
SW-1	2/8/11	9:55	DM	Dip	Normal	Normal	Downstream of SW-2(Closed) & SW-3 (Shared)	6.9	328	6.10	9.9	81	40	c
SW-2	2/8/11	9:25	DM	Dip	Normal	Normal	Lined near access rd (Mid stream)	7.2	332	6.00	9.8	99	46	c
SW-3	NS	—	DM	DRY			Upstream-furthest East historically Closed							
SW-3	2/8/11	9:00	DM	Dip	Normal	Normal	Downstream of SW-2(closed) Between MW-4 Lined & MW-5 Closed	6.9	299	6.12	9.7	76	37	c

Comments

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