Semi-Annual Water Quality Monitoring Report with Corrective Action Update

Prepared for

Alexander County Active C&D and Closed MSWLF
Taylorsville, North Carolina

December 2012

Permit Number: 02-01

MESCO Project Number: G12003.0

Submitted: April 1, 2013

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

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

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

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

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

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

Instructions:

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

Solid Waste Monitoring Data Submittal Information

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

Municipal Engineering Services Co., PA

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

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

E-mail: jpfohl@mesco.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Alexander County Active C&D and Closed Unlined MSWLF	2500 Paynes Dairy Road Taylorsville, NC 28681	02-01	.1600	December 10-14, 2012

Environmental Status: (Check all that apply)

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

Type of data submitted: (Check all that apply)

☒ Groundwater monitoring data from monitoring wells
☐ Groundwater monitoring data from private water supply wells
☐ Leachate monitoring data
☒ Surface water monitoring data
☐ Methane gas monitoring data
☒ Corrective action data (specify) MNA analysis for 12 wells per CA
☐ Other(specify)

Notification attached?

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

Certification

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

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

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

D. Mark Durway 4.1.13

Signature Date

Affix NC Licensed/ Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 0875 GEOLOGIST D. MARK DURWAY

P.O. Box 97, Garner, NC 27529

Facility Representative Address

C-0281

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

Revised 6/2009

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License No. C-0281

CIVIL/SANITARY/ENVIRONMENTAL ENGINEERS

SOLID WASTE MANAGEMENT

Municipal Services

Engineering Company, P.A.

SITE PLANNING/SUBDIVISIONS

SUBSURFACE UTILITY ENGINEERING (SUE)

April 1, 2013

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

Re: **Semi-Annual Water Quality Monitoring Report with Corrective Action Update**
Alexander County Active C&D and Closed MSWLF
Permit No. 02-01
MESCO Project No. G12003.0
Event Date(s): December 10-14, 2012

Dear Ms. Drummond:

Introduction

On behalf of Alexander County, Municipal Engineering Services Company, P.A. (MESCO) is pleased to present this *Semi-Annual Water Quality Monitoring Report with Corrective Action Update* for the winter 2012 event performed at the Alexander County active construction and demolition (C&D) and closed municipal solid waste landfill (MSWLF). NCDENR Solid Waste Rules 15A NCAC 13B.1632 requires that Alexander County provide this report to the NC Solid Waste Section (SWS) on a semi-annual basis. This report documents the quality of the ground and surface waters during this monitoring event performed December 10-14, 2012. Laboratory analytical results indicate one or more volatile organic compounds (VOCs) continue to persist at levels above the 2L Standard in samples collected from eleven wells that monitor the uppermost aquifer but concentrations are decreasing over time and distance. A single surface water sample contained cadmium concentrations in excess of the 2B Standard but the origin is unlikely attributed to landfill activities. Corrective action to remediate VOCs in groundwater is ongoing within the four areas of concern (AOC) with updated information presented herein.

Background

The Alexander County active C&D and closed MSWLF, is located at 2500 Paynes Dairy Road near Taylorsville North Carolina. The total waste footprint encompasses approximately 24 acres situated on 283 contiguous acres. The site location topographic map is depicted in the attached **Figure 1**.

The closed MSWLF ceased operation prior to 1998 and the C&D landfill continues operation on the eastern unit of the closed MSWLF. Both landfill areas are treated as a single unit in this report. Water quality has been monitored at this facility on at least a semi-annual basis since 1990. MESCO submitted two *Assessment and Corrective Action* (ACM) reports dated August 27, 2002 and April 11, 2008. MESCO then developed a *Corrective Action Plan-Revision 1* (*CAP-Rev 1*) on February 6, 2009. In response to improved water quality and changing geochemical conditions the originally selected remediation approach was amended by MESCO in a *Corrective Action Plan-Addendum (CAP-Add)* dated December 20, 2010. Groundwater remediation efforts have been implemented at the four distinct areas of concern (AOCs) which are identified as MW-1B, MW-16, MW-24 and MW-26. Remediation technologies initiated to date with reference to their respective AOC include monitored natural attenuation (MNA) (MW-16, MW-24, MW-26), phytoremediation (MW-24), enhanced bioremediation via substrate injection (MW-26) and landfill gas (LFG) extraction (MW-1B). Following establishment of the two year MNA baseline MESCO completed a *Corrective Action Evaluation Report* (*CAER*) (DIN 13596) on March 22, 2011. Based on improved water quality conditions as demonstrated in the CAER the parameters and frequencies of future monitoring events were established by the SWS CAER review response (DIN 14150) dated June 16, 2011. Groundwater remediation per the *CAP* is expected to continue until the SWS authorizes a change.

As specified in rule 15A NCAC 13B.1632(j) and on the SWS Environmental Monitoring Report Form, this report contains sampling procedures, field and laboratory results, groundwater and surface water characterization, a corrective action update and other findings. A contaminant summary table, field data results table, groundwater flow table, field monitoring location observations table, a potentiometric map with VOCs exceeding 2L Standards, time-series graphs, quality assurance/quality control data, and laboratory analytical data are also enclosed.

Sampling Procedures

MESCO personnel performed this sampling event following the parameters and frequency established by the SWS review response to the *(CAER)* (Doc ID 14150) dated June 16, 2011. The water quality monitoring program includes a combination of detection, assessment and corrective action monitoring with specifically defined analysis.

Water samples were collected and analyzed from all monitoring locations outlined in the *CAP-Add* and *CAER* with the exception of dry wells (MW-1A, MW-2). Assessment monitoring (Appendix II only) was performed on 23 wells (MW-1, MW-1B, MW-3, MW-4R, MW-7, MW-9, MW-10, MW-13, MW-14, MW-15, MW-17, MW-19 through MW-23, MW-25 and MW-32). Detection monitoring (App I only) was performed on four surface water points (SW-3, SW-4R, SW-5 and SW-6). Corrective action monitoring (App II and MNA) was also performed on 10 wells (MW-11, MW-12, MW-12D, MW-24, MW-26, MW-27, MW-31, MW-33, MW-34 and background well MW-18). Dissolved methane levels only were quantified from samples collected from MW-5, MW-6 and MW-25. Quality control measures implemented during this event included submittal and subsequent quantification of an equipment (EB), field (FB), and travel (TB) blanks. Monitoring locations are depicted on the potentiometric map (**Figure 2**).

Sampling was performed per the protocols outlined in the Groundwater and Surface Water Sampling and Analysis Plan included as Appendix B of the approved *CAP-Add.* Monitoring location function and integrity was visually evaluated with no deficiencies observed and inspection documentation is provided in **Table 5**. The depth to water in each well was electronically gaged prior to purging to quantify the static water level elevation. Low-flow pumping or bailing was utilized to purge the wells a minimum of three times the volume of standing water in the well or until dry. Surface water samples were collected from previously designated locations along discharge features. During well purging and surface water sample collection the required field parameters were recorded. The samples were then placed into laboratory-prepared, pre-preserved containers via a new disposable polyethylene bailer. Samples were collected, kept on ice, and transported to a NC-certified laboratory under proper C-O-C protocols within the specified hold times for each analysis.

Field Parameter Data

Field parameters were recorded for pH, specific conductance, temperature, dissolved oxygen (DO), oxidation reduction potential (ORP), total dissolved solids (TDS), and turbidity. A summary of the field parameter data is presented in **Table 6** and the field sampling data sheet is enclosed in **Appendix B**.

Laboratory Results

Pace Analytical Laboratories (PACE) of Huntersville/Asheville, NC, Environmental Conservation Laboratories (ENCO) of Cary NC and Microseeps of Pittsburgh, PA performed the laboratory analysis. Groundwater samples were analyzed for the constituents listed in 40 CFR 258 Appendix II. Surface water samples were tested for the Appendix I list of parameters listed in 40 CFR 258. Additionally, a subset of 15 wells was analyzed for approved monitored natural attenuation (MNA) parameters as part of corrective action. Quality control blanks were tested for Appendix II VOCs, total metals and SVOCs. A sampling and analysis table summarizing the locations, target analytes and laboratory methods is presented as **Table 1**. Laboratory results and C-O-Cs are presented in **Appendix A**.

Water samples were reported at the laboratory specific Method Detection Limits (MDL), which are quantifiable at or below the current Solid Waste Section detection limits (SWSL). **Table 2** summarizes Appendix I constituents detected in the water samples in concentrations above the current SWSL, Groundwater Protection Standards (GWP), North Carolina Groundwater Standards (2L) or the North Carolina Surface Water Standards (2B) for the applicable Class C water bodies. **Table 3** summarizes Appendix II exclusive constituents detected above the MDL.

Quality Control Samples

Low ("j-qualified") concentrations of arsenic and isobutanol were detected in EB and FB respectively. Since neither of the constituents were detected in any ground or surface water samples it appears that the data set's validity was likely unaffected by the identified artifact contamination.

Groundwater Samples

Total cadmium in MW-22 was the only metal detected in excess of the 2L Standards. The VOCs detected in concentrations above the SWSL and in exceedance of their respective 2L Standard during this event were aromatics benzene (MW-1, MW-1B, MW-3, MW-4R, MW-7, MW-11, MW-12, MW-15, MW-16, MW-21, MW-26) and para-dichlorobenzene (MW-11, MW-12). Chlorinated aliphatic hydrocarbons detected in concentrations over SWSL and 2L Standards included tetrachloroethylene and 1,2-Dichloropropane in MW-16.

Appendix II exclusive parameters were not detected in concentrations above their respective established 2L Standards.

A site map depicting the spatial distribution of VOC concentrations exceeding the 2L Standard during this sampling event is shown in **Figure 2.**

Surface Water Samples

An unprecedented detection of total cadmium was detected in SW-5 above the 2B Standard.

Groundwater and Surface Water Characterization

At the landfill, groundwater flow direction generally mirrors topography, thus flow direction is from higher to lower elevations as shown on the potentiometric map included as **Figure 2**. Locally, groundwater flow is expected to be generally westerly toward the Lower Little River, and southerly toward the Catawba River (**Figure 1**). Groundwater linear velocity rates calculated using modified Darcy's equation varied greatly and were slower in the upper bedrock fracture system than the less prominent regolith (**Table 4**). Streams at designated monitoring points were visually observed to be of normal seasonal volume, flow rate and low turbidity. Hydrogeologic parameters appear generally consistent with historical observations.

Corrective Action Update

Groundwater remediation continues to be implemented at the four AOCs. Corrective action screening models are planned to be submitted following the next semi-annual event. General background information and activities performed since the *CAER* and last semi-annual event are briefly presented in the following sections.

MNA Analysis (AOCs MW-16, MW-24, MW-26)

Semi-annual MNA monitoring of 14 wells for the full suite of SWS recommended parameters was initiated on June 30, 2009 and performed for four consecutive semi-annual events per the *CAP-Revision 1*. The number of wells requiring MNA analysis was reduced to 12 and the parameters and frequency were also amended per the SWS CAER review response (DIN 14150) dated June 16, 2011. This is the third of four planned consecutive semi-annual MNA baseline monitoring events of MW-33 and MW-34. The other ten corrective action wells were tested for the approved abbreviated MNA parameter list. MNA data presented in **Table 7** continues to indicate that favorable geochemical conditions exist for continued natural attenuation.

The horizontal extent of VOC contamination as identified in AOC MW-16 has been delineated within 225 feet from the waste boundary as evidenced by the lack of applicable regulatory Standard exceedances in samples collected from MW-33, MW-34 and SW-6. Following the acquisition of a 15.7 acre parcel from Crescent Resources on March 3, 2011 extension of the eastern relative point of compliance downgradient of AOC MW-16 has been approved with conditions by the SWS on February 18, 2013 (DIN:18502). Recordation of Survey Plat titled *Survey For Notice of Contaminated Site Alexander County Landfill* and *A Notice and Declaration of Perpetual Land Use Restrictions* for this parcel has been approved by the SWS and recorded at the Alexander County Register of Deeds Office on November 13, 2012.

Phytoremediation (AOC MW-24)

County personnel planted about 200 hybrid poplar trees over an approximate one acre area between MW-7 and MW-12 in an effort to phytoremediate groundwater in the MW-24 AOC. The county continued to maintain the stand during this semi-annual period which included supplemental watering and eradication of competing vegetation. MESCO personnel continued to monitor tree growth by recording measurements of ten designated sample trees on September 27, 2012 and December 13, 2012. The average tree size, including the approximately 30% which have died/dying, decreased slightly (4") during the fall quarter (**Table 8**) and remained about the same over the past 1.5 years (**Figure 3**).

MESCO personnel deployed dedicated pressure transducers in MW-7 and MW-12 on August 12, 2010 to record daily water levels. These measurements were downloaded on September 27, 2012 and December 12, 2012. In addition, daily precipitation amounts are periodically obtained from the National Weather Services Cooperative Observer Program Station 318519 database.

A time series-graph depicting the correlation between tree growth, groundwater fluctuation and precipitation over the past year is presented in **Figure 3**. As expected, phytoremediation has not been established long enough to make a valid assessment of its effectiveness as a remediation measure.

Enhanced Bioremediation via Substrate Injection (AOC MW-26)

In an attempt to remediate benzene as detected in MW-26, Bac-9 was injected 50 ft upgradient in IW-1 on February 17, 2011 following conditions in the Underground Injection Control (UIC) Permit WI0300160. As directed in the UIC *Injection Well Permit Application* quarterly post-injection water quality monitoring of MW-3, MW-11, MW-26, MW-27 and MW-31 continued on September 27, 2012 and the fifth event was performed in conjunction with this semi-annual event December 12, 2012. During this event total VOCs decreased 27% and benzene concentrations decreased 18% compared to the baseline averages established during the four event/ two years preceding the injection (**Figure 4**).

Landfill Gas Extraction (AOC MW-1B)

Three LFG extraction wells (MEW-1, MEW-2, MEW-3) were installed screening the majority of the vadose zone at the northern border of the closed landfill in the vicinity of the scalehouse. MEW-1 was installed on August 17, 2010 with MEW-2 and MEW-3 installed on October 20, 2010. Well control heads were plumbed to a header pipe by the County which was connected to a soil vacuum extraction (SVE) unit on July 5, 2012. An active LFG blower system pilot study was performed by MESCO between June 14, 2012 and July 12, 2012 to evaluate the effectiveness a vacuum would have on reducing levels of LFG in the soil which may remediate the low level VOCs detected in groundwater hydraulically upgradient of the landfill. A comparison of LFG concentrations and pressures before and after vacuum start-up indicates the system is capable of eliminating LFG migration at all monitored locations. The active LFG Collection Control System (LFGCCS) has been in continuous operation since November 1, 2012 and been verified by MESCO personnel to be eliminating LFG migration at all locations monitored beyond the extraction wells.

Findings

The semi-annual laboratory results indicate that low level (<25.6 uq/L) dissolved phase VOCs, consisting primarily of benzene and a few chlorinated solvents, continue to be detected in groundwater samples collected within 250 feet of the waste boundary. Total VOC concentrations continue to not exhibit an increasing trend over time in each AOC (**Figure 5**). During this event total VOC concentrations compared to their own respective averages calculated during the two year baseline period, which corresponds with the initiation of corrective action, decreased in all wells with the exception of MW-1B, MW-7, MW-14, MW-20 and MW-21. Total VOC concentration changes during this event compared to their established baseline were AOC MW-1B (-25%), AOC MW-16 (-34%), AOC MW-24 (+5%), AOC MW-26 (-33%) and site-wide (-28%) (**Figure 6**). All constituents detected in quantifiable concentrations above the 2L were detected within their own respective historically identified range with the exception of benzene in MW-1B and MW-21.

The detection of total cadmium in a sample collected from SW-5 is likely a false positive and not attributed to landfill activities. Total cadmium has never previously been detected in SW-5 or in any other samples collected from between this drainage area and the landfill which includes (SW-6, MW-5, MW-10, MW-16, MW-32, MW-33, and MW-34).

Elevated total cadmium as detected in MW-22 is also likely not originating from landfill activities as evidenced by a lack of historical trends in MW-22 and in samples collected hydraulically upgradient. Total cadmium has never previously been detected in MW-22 and the only previous quantifiable concentration of total cadmium hydraulically upgradient along the flow path was a single detection in MW-15 ten years ago.

Evaluation of the most current water quality data continues to support assertions drawn in previous reports. VOCs persist in the upper portion of the aquifer but concentrations continue to decrease over time and distance away from the landfill. MNA data and previous screening models indicate that the plumes within each AOC are stabilizing and/or decreasing and there is adequate evidence that natural attenuation is actively occurring at the facility. Implementation of the active LFG extraction system is expected to decrease VOC concentrations in groundwater within AOC MW-1B over time.

Closing

Water quality monitoring and corrective action will continue at the facility. AOC MW-26 water quality monitoring will change from quarterly to semi-annually beginning in June 2013 per the Injection Well Permit renewed by the UIC on January 31, 2013. Phytoremediation and LFG monitoring is planned to continue on the established quarterly schedule. SWS required conditions as outlined in (DIN:18502) are planned to be met within the requested time frames. The next scheduled semi-annual facility-wide water quality monitoring event is scheduled for June 2013. If you have any questions or comments regarding this report, please contact us at (919) 772-5393 or by email at jpfohl@mesco.com or mdurway@mesco.com.

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

Jonathan Pfohl
Environmental Specialist

D. Mark Durway, L.G.
Geologist

NORTH CAROLINA LICENSED SEAL 0875 GEOLOGIST D. MARK DURWAY

Enclosures

cc: Josh Mitchell
Alexander County

Figures

Topographic Map with Site Location
Alexander County Active C&D and Closed MSWLF

2500 Paynes Dairy Road
Taylorsville, NC 28681
Lat:35-15-18.7246
Long:-81-08-51.51.32
Northing:767009.09
Easting:1363506.43

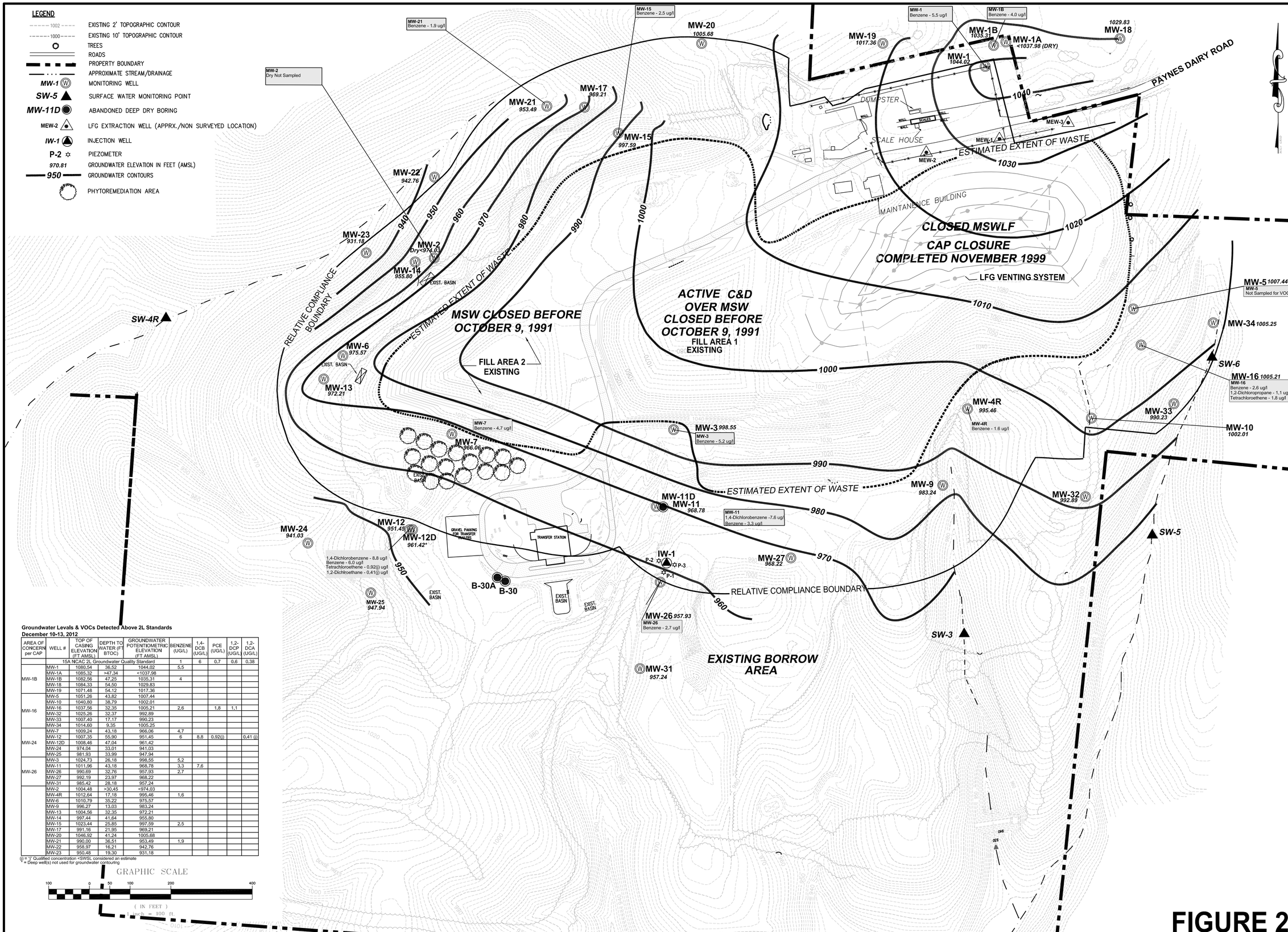
QUADRANGLE LEGEND

ROAD CLASSIFICATION

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

0 1/2 1 MILE

FIGURE 1



Groundwater Levels & VOCs Detected Above 2L Standards
December 10-13, 2012

AREA OF CONCERN per CAP	WELL #	TOP OF CASING ELEVATION (FT AMSL)	DEPTH TO WATER (FT BTOC)	GROUNDWATER POTENTIOMETRIC ELEVATION (FT AMSL)	BENZENE (UG/L)	1,4-DCB (UG/L)	PCE (UG/L)	1,2-DCP (UG/L)	1,2-DCA (UG/L)
	15A NCAC 2L Groundwater Quality Standard				1	6	0,7	0,6	0,38
MW-1B	MW-1	1080.54	36.52	1044.02	5,5				
	MW-1A	1085.32	>47.34	<1037.98					
	MW-1B	1082.56	47.25	1035.31	4				
	MW-18	1084.33	54.50	1029.83					
	MW-19	1071.48	54.12	1017.36					
MW-16	MW-5	1051.26	43.82	1007.44					
	MW-10	1040.80	38.79	1002.01					
	MW-16	1037.56	32.35	1005.21	2,6		1,8	1,1	
	MW-32	1025.26	32.37	992.89					
	MW-33	1007.40	17.17	990.23					
	MW-34	1014.60	9.35	1005.25					
MW-24	MW-7	1009.24	43.18	966.06	4,7				
	MW-12	1007.35	55.90	951.45	6	8,8	0.92(j)		0.41 (j)
	MW-12D	1008.46	47.04	961.42					
	MW-24	974.04	33.01	941.03					
	MW-25	981.93	33.99	947.94					
MW-26	MW-3	1024.73	26.18	998.55	5,2				
	MW-11	1011.96	43.18	968.78	3,3	7,6			
	MW-26	990.69	32.76	957.93	2,7				
	MW-27	992.19	23.97	968.22					
	MW-31	985.42	28.18	957.24					
	MW-2	1004.48	>30.45	<974.03					
	MW-4R	1012.64	17.18	995.46	1,6				
	MW-6	1010.79	35.22	975.57					
	MW-9	996.27	13.03	983.24					
	MW-13	1004.56	32.35	972.21					
	MW-14	997.44	41.64	955.80					
	MW-15	1023.44	25.85	997.59	2,5				
	MW-17	991.16	21.95	969.21					
	MW-20	1046.92	41.24	1005.68					
	MW-21	990.00	36.51	953.49	1,9				
	MW-22	958.97	16.21	942.76					
	MW-23	950.48	19.30	931.18					

(j) = "j" Qualified concentration <SWSL considered an estimate
* = Deep well(s) not used for groundwater contouring

FIGURE 2

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

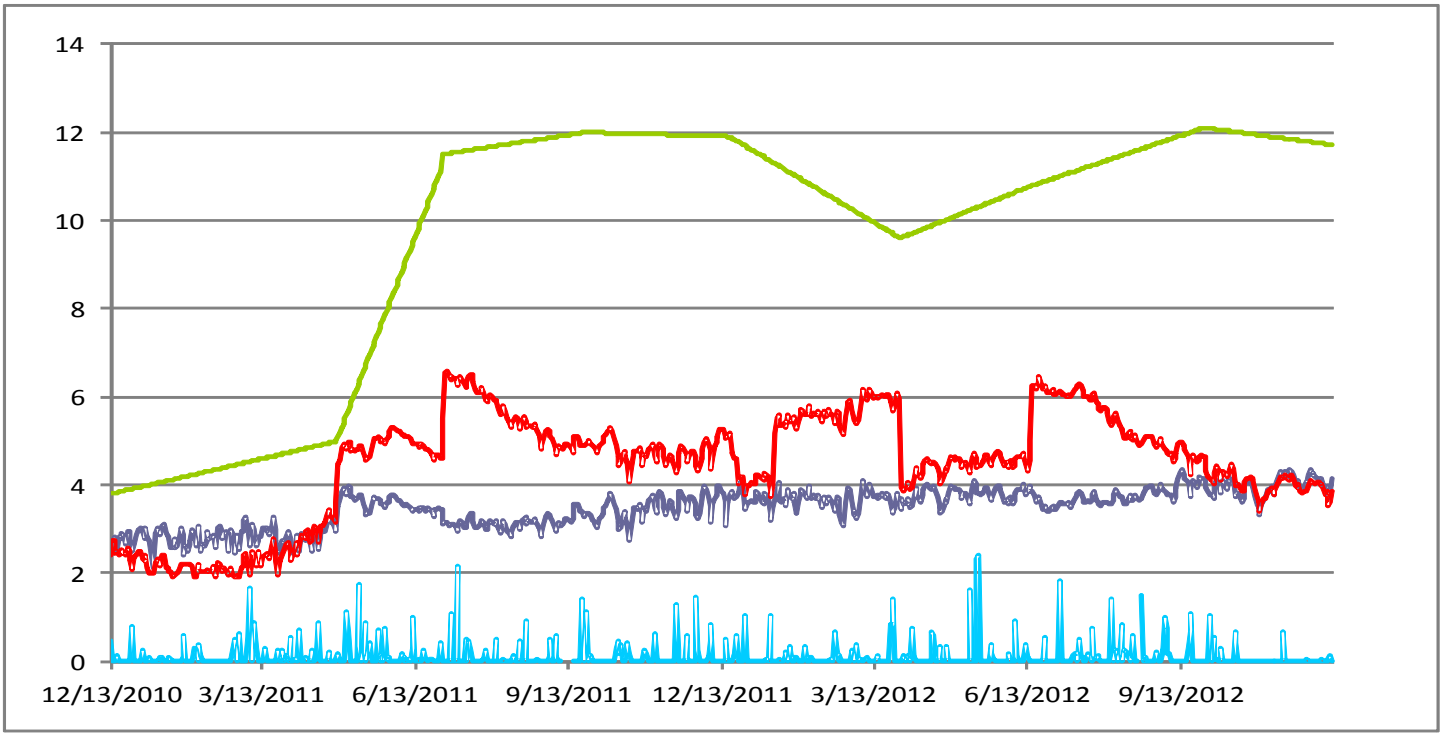
ACTIVE CONSTRUCTION and DEMOLITION
CLOSED UNLINED MSW LANDFILL FACILITY
ALEXANDER COUNTY
NORTH CAROLINA

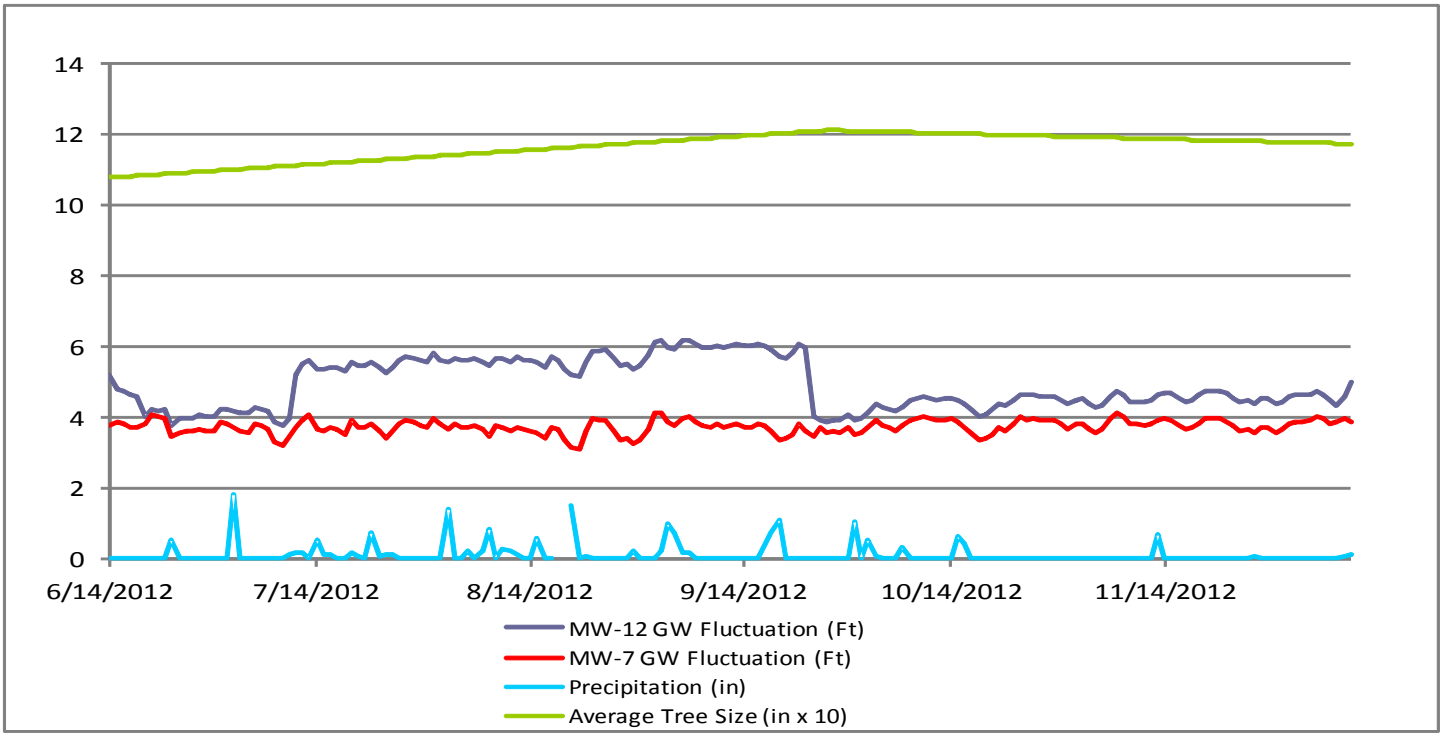
DATE	BY	REV.	DESCRIPTION

POTENTIOMETRIC MAP OF UPPERMOST AQUIFER
w/ VOCS DETECTED ABOVE 2L STANDARDS

SCALE:	1" = 100'
DATE:	3/5/13
DRWN. BY:	J. PFOHL
CHKD. BY:	M. DURWAY
PROJECT NUMBER	G12003.0
DRAWING NO.	FIGURE 2
SHEET NO.	1 OF 1

Figure 3
Time-Series Graphs of Groundwater, Precipitation & Tree Size
December 13, 2010 – December 12, 2012





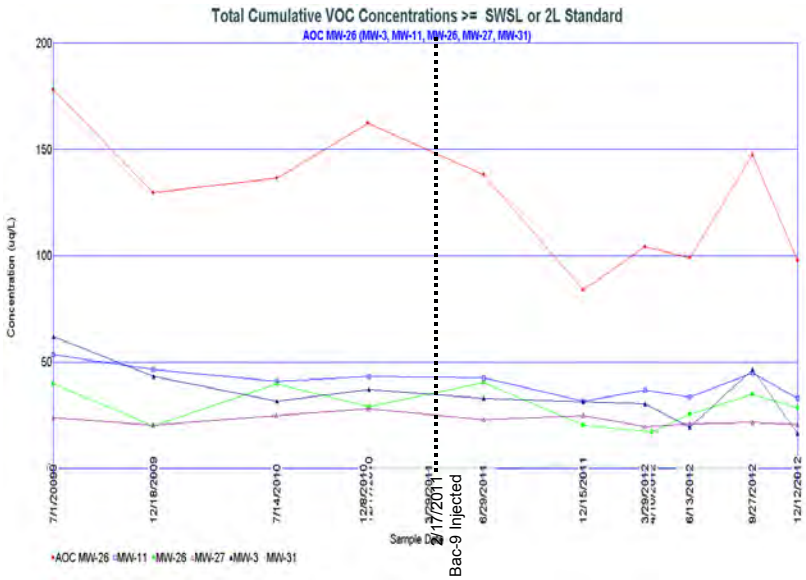
Data Sources:

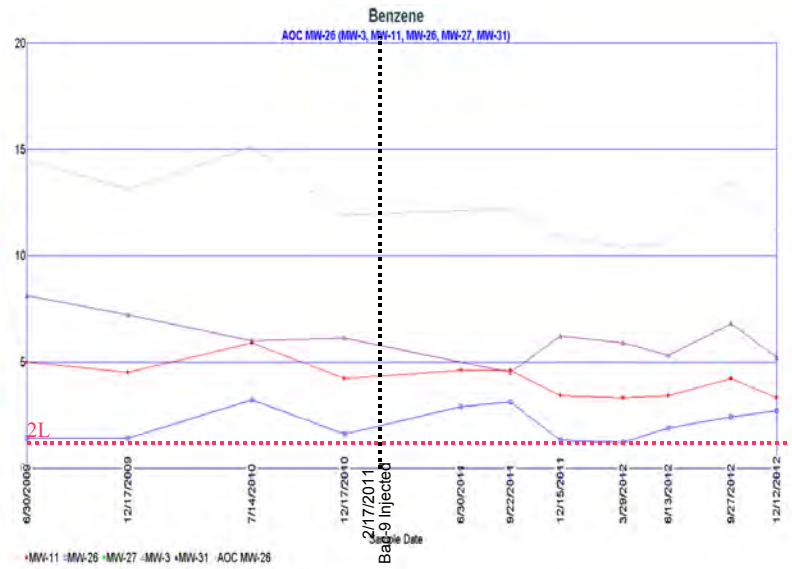
GW = Dedicated pressure transducers. Recorded daily.

Precipitation = National Weather Services Cooperative Observer Program Station 318519. Recorded daily.

Tree Size = Field measurements (Height + width + trunk circumference) of ten designated sample trees includes dead ones. Recorded quarterly.

Figure 4
Total VOCs and Benzene Concentrations Pre/Post Injection Comparison in AOC MW-26
June 30, 2009 – December 12, 2012

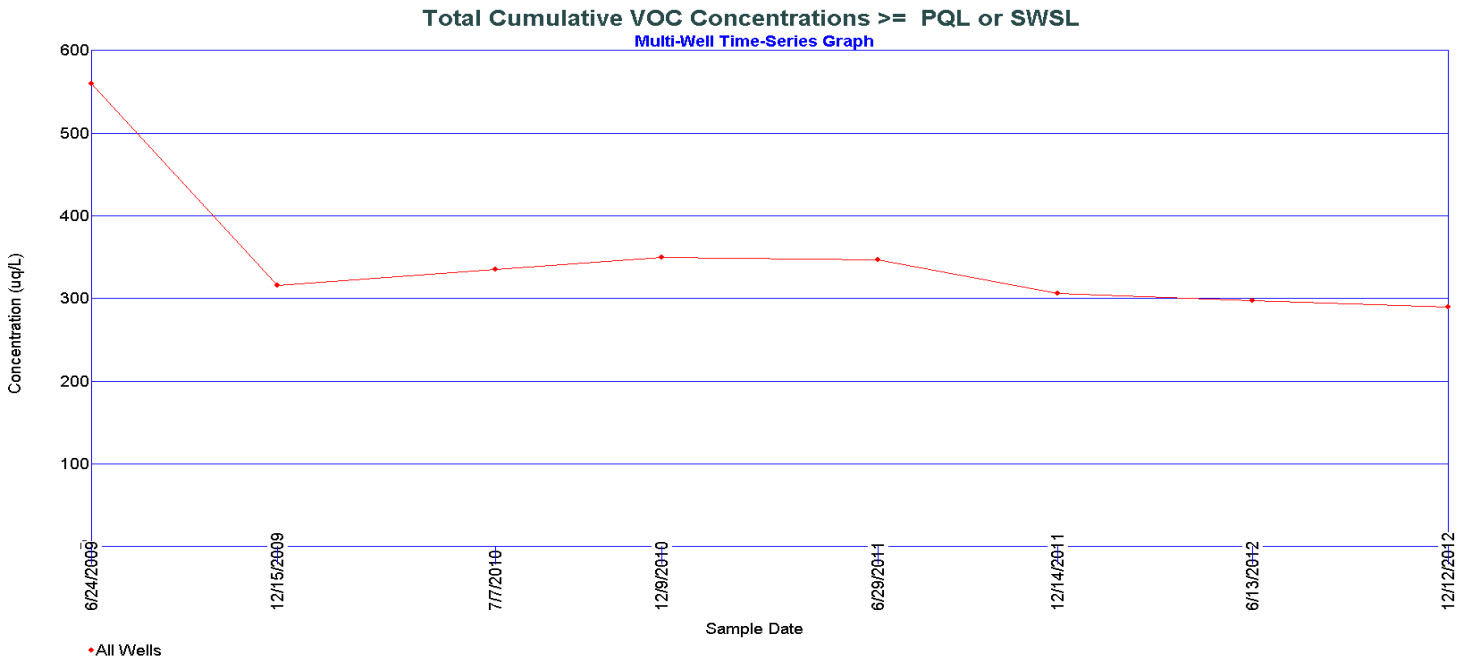


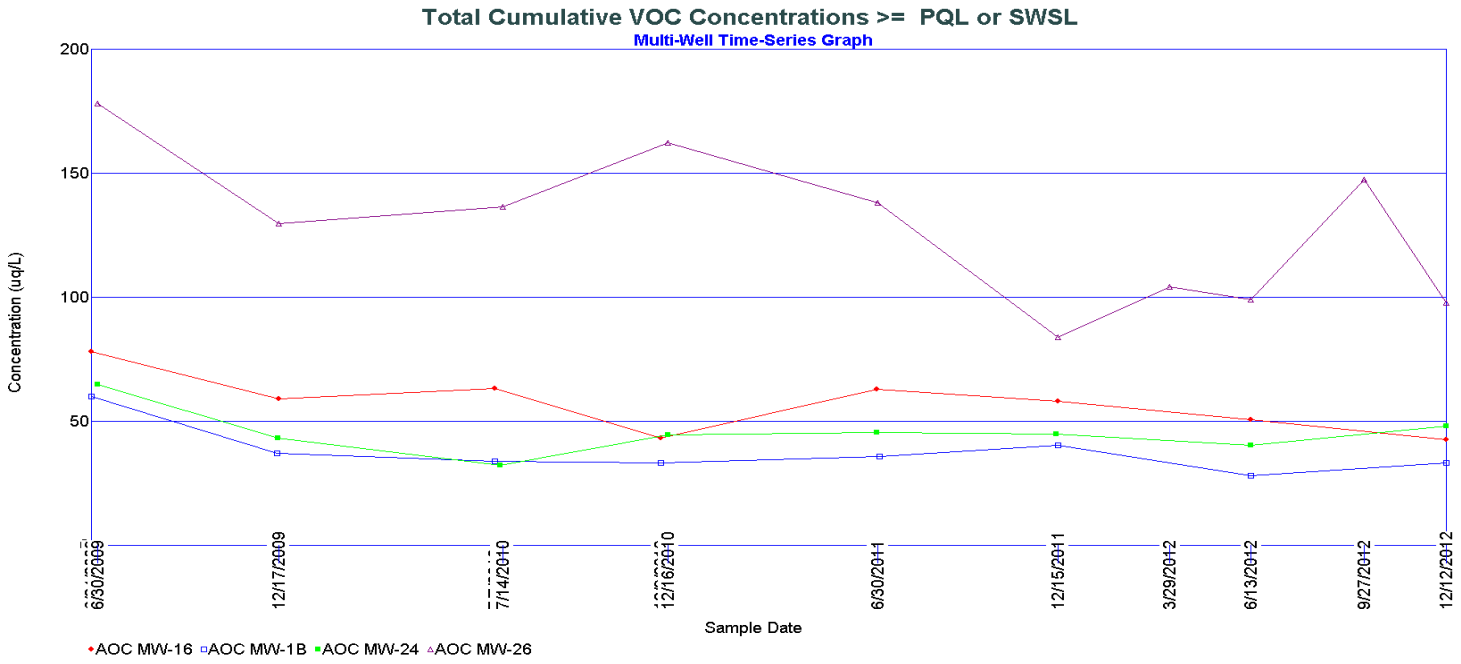


Total VOCs & Benzene Concentrations Pre/Post Injection Comparison in AOC MW-26

Hydraulic Gradient In Relation to Injection Well (IW-1)	Well ID	June 2009 (ug/L)		Dec 2009 (ug/L)		July 2010 (ug/L)		Dec. 2010 (ug/L)		Average of Four Events Preceding Injection (ug/L)		Dec 2012 (ug/L)		Difference (ug/L)		Difference (%)	
		All VOCs	Benzene	All VOCs	Benzene	All VOCs	Benzene	All VOCs	Benzene	All VOCs	Benzene	All VOCs	Benzene	All VOCs	Benzene	All VOCs	Benzene
Up	MW-3	61.66	8.10	43.03	7.20	31.50	6.00	37.04	6.10	43.31	6.85	16.40	5.20	-26.91	-1.65	-62	-24
Up	MW-11	53.28	5.00	46.25	4.50	40.81	5.90	43.20	4.20	45.89	4.90	32.60	3.30	-13.29	-1.60	-29	-33
Up	MW-27	23.70	0.00	20.20	0.00	24.60	0.00	28.00	0.00	24.13	0.00	20.40	0.00	-3.73	0.00	-15	0
Subtotal Upgradient		138.64	13.10	109.48	11.70	96.91	11.90	108.24	10.30	113.32	11.75	69.40	8.50	-43.92	-3.25	-39	-28
Down	MW-26	39.40	1.40	20.00	1.40	39.50	3.20	29.00	1.60	31.98	1.90	37.20	2.70	5.23	0.80	16	42
Down	MW-31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0
Subtotal Downgradient		39.40	1.40	20.00	1.40	39.50	3.20	29.00	1.60	31.98	1.90	37.20	2.70	5.23	0.80	16	42
Up&Down Gradient Total		178.04	14.50	129.48	13.10	136.41	15.10	137.24	11.90	145.29	13.65	106.60	11.20	-38.69	-2.45	-27	-18

Figure 5
Time-Series Graphs of VOC Concentrations
June 24, 2009 to December 13, 2012

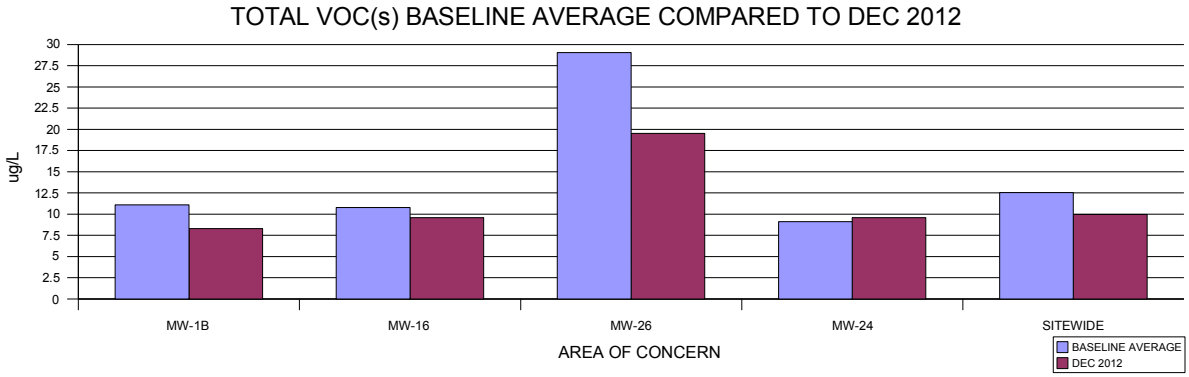




AOC MW-1B (MW-1,MW-1B,MW-18,MW-19)
AOC MW-16 (MW-5,MW-10,MW-16,MW-32,MW-33,MW-34)
AOC MW-24 (MW-7*,MW-12,MW-12D,MW-24,MW-25)
AOC MW-26 (MW-3,MW-11,MW-26,MW-27,MW-31)

* = MW-7 Not sampled June 2012 so used previous four event average for graph

Figure 6
Histograms of Total VOC Concentrations
(June 24, 2009-December 9, 2010) Compared to December 2012



AOC ID	WELL ID	TOTAL VOC(s) BASELINE AVERAGE (June 2009-Dec. 2010) (ug/l)	TOTAL VOC(s) LATEST Dec 2012 (ug/l)	DIFFERENCE BETWEEN LATEST AND BASELINE (ug/L)	DIFFERENCE BETWEEN LATEST AND BASELINE (%)
MW-1B	MW-1	25.22	16.20	-9.02	-36
	MW-1A	NS	NS	NA	NA
	MW-1B	15.66	17.00	1.34	9
	MW-18	0.00	0.00	0.00	0
	MW-19	3.48	0.00	-3.48	-100
	AOC AVG	11.09	8.30	-2.79	-25
MW-16	MW-5	18.39	15.2 [6/12]	-18.39	-24
	MW-10	2.17	0.00	-2.17	-100
	MW-16	44.14	42.40	-1.74	-4
	MW-32	0.00	0.00	0.00	0
	MW-33	0.00	0.00	0.00	0
	MW-34	0.00	0.00	0.00	0
	AOC AVG	10.78	9.60	-1.18	-34
MW-24	MW-7	12.69	15.80	3.11	25
	MW-12	30.94	30.73	-0.21	-1
	MW-12D	0.00	0.00	0.00	0
	MW-24	1.56	1.30	-0.26	-17
	MW-25	0.30	0.00 [6/12]	-0.30	-100
	AOC AVG	9.10	9.57	0.47	5
MW-26	MW-3	43.31	16.40	-26.91	-62
	MW-11	45.89	32.60	-13.29	-29
	MW-26	31.98	28.30	-3.68	-12
	MW-27	24.13	20.40	-3.73	-15
	MW-31	0.00	0.00	0.00	0
	AOC AVG	29.06	19.54	-9.52	-33
	MW-2	27.19	0.00	-27.19	-100
	MW-4R	25.00	21.30	-3.70	-15
	MW-6	0.00	0.00 [6/12]	0.00	0
	MW-9	18.51	12.10	-6.41	-35
	MW-13	0.00	0.00	0.00	0
	MW-14	11.93	14.10	2.17	18
	MW-15	12.83	10.90	-1.93	-15
	MW-17	2.27	0.00	-2.27	-100
	MW-20	0.59	1.30	0.71	120
	MW-21	0.28	8.10	7.82	2793
	MW-22	2.70	0.00	-2.70	-100
	MW-23	0.51	0.00	-0.51	-100
ALL WELLS	ALL WELLS AVG	12.55	9.96	-2.59	-28

NS = Not sampled since dry or exempt

Tables

Table 1
Sampling and Analysis Summary
December 10-14, 2012

		App. I		MNA												App. II							
	Reason Not Sampled	VOCs App I	Total Metals App I	VFA	Hydrogen	Methane	Alkalinity	Sulfate	Sulfide	Chloride	TOC	COD	BOD	Iron	Nitrate	VOCs App II	Total Metals App II	Herbicides-Chlorinated App II	Polychlorinated biphenyl (PCB) App II	Semivolatile Organics (SVOCs) App II	Pesticides App II	Total Cyanide	Sulfide
		Lab EPA 8260B	Lab EPA 6000/7000	AM23G	AM20GAX	AM20GAX or RSK175	Lab SM 2320B	EPA 300.0	Lab SM18 4500-S D	Lab SM 4500-Cl-E	SM 5310B	SM 5220D	SM5210B	Lab EPA 6010	Lab 353.2	Lab EPA 8260B	Lab EPA 6000/7000	Lab SW8151A	Lab EPA 8082A	Lab EPA 8270D	Lab EPA 8081B	Lab EPA 9014	Lab SM18 4500-S D
MW-1																x	x	x	x	x	x	x	x
MW-1A	Dry																						
MW-1B																x	x	x	x	x	x	x	x
MW-2	Dry																						
MW-3							x	x	x	x	x		x			x	x	x	x	x	x	x	x
MW-4R																x	x	x	x	x	x	x	x
MW-5						x																	
MW-6						x																	
MW-7																x	x	x	x	x	x	x	x
MW-9																x	x	x	x	x	x	x	x
MW-10																x	x	x	x	x	x	x	x
MW-11						x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
MW-12						x	x	x	x	x	x	x		x	x	x	x	x	x	x	x	x	x
MW-12D						x	x	x	x	x	x	x		x	x	x	x	x	x	x	x	x	x
MW-13																x	x	x	x	x	x	x	x
MW-14																x	x	x	x	x	x	x	x
MW-15																x	x	x	x	x	x	x	x
MW-16						x										x	x	x	x	x	x	x	x
MW-17																x	x	x	x	x	x	x	x
MW-18					x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
MW-19																x	x	x	x	x	x	x	x
MW-20																x	x	x	x	x	x	x	x
MW-21																x	x	x	x	x	x	x	x
MW-22																x	x	x	x	x	x	x	x
MW-23																x	x	x	x	x	x	x	x
MW-24						x	x	x	x	x	x	x		x	x	x	x	x	x	x	x	x	x
MW-25						x																	
MW-26						x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
MW-27						x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
MW-31						x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
MW-32																x	x	x	x	x	x	x	x
MW-33				x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
MW-34				x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
SW-3		x	x																				
SW-4R		x	x																				
SW-5		x	x																				
SW-6		x	x																				
EB																x	x			x			
FB																x	x						
TB																x							

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

Table 2
Detections that Attain or are Above SWSL, GWP, 2L or 2B (Appendix I)
December 10-14, 2012

Sample ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [2]	SWSL [3]	2L [4]	2B [5]	GWP [6]	Exceedance Amount	Preliminary Cause [7]
MW-1	1,4-Dichlorobenzene	12/13/12	4	ug/L	0.33	1	6				
MW-1	**Benzene**	**12/13/12**	**5.5**	**ug/L**	**0.25**	**1**	**1**			**4.5**	**L &/or LFG**
MW-1	Cobalt, total	12/13/12	18.8	ug/L	5	10			70		
MW-1	cis-1,2-Dichloroethene	12/13/12	6.7	ug/L	0.19	5	70				
MW-1	Zinc, total	12/13/12	12.2	ug/L	10	10	1050				
MW-1	Copper, total	12/13/12	12.5	ug/L	5	10	1000				
MW-3	1,4-Dichlorobenzene	12/12/12	4.3	ug/L	0.33	1	6				
MW-3	**Benzene**	**12/12/12**	**5.2**	**ug/L**	**0.25**	**1**	**1**			**4.2**	**L &/or LFG**
MW-3	Cobalt, total	12/12/12	15	ug/L	5	10			70		
MW-3	cis-1,2-Dichloroethene	12/12/12	6.9	ug/L	0.19	5	70				
MW-1B	1,4-Dichlorobenzene	12/13/12	3.6	ug/L	0.33	1	6				
MW-1B	**Benzene**	**12/13/12**	**4**	**ug/L**	**0.25**	**1**	**1**			**3**	**L &/or LFG**
MW-1B	Zinc, total	12/13/12	18.7	ug/L	10	10	1050				
MW-1B	Methylene Chloride	12/13/12	2.4	ug/L	0.97	1	4.6				
MW-1B	cis-1,2-Dichloroethene	12/13/12	7	ug/L	0.19	5	70				
MW-1B	Cobalt, total	12/13/12	68.3	ug/L	5	10			70		
MW-4R	**Benzene**	**12/11/12**	**1.6**	**ug/L**	**0.25**	**1**	**1**			**0.6**	**L &/or LFG**
MW-4R	1,4-Dichlorobenzene	12/11/12	4.4	ug/L	0.33	1	6				
MW-4R	Cobalt, total	12/11/12	115	ug/L	5	10			70	45	
MW-4R	Barium, total	12/11/12	117	ug/L	5	100	700				
MW-4R	Zinc, total	12/11/12	12.1	ug/L	10	10	1050				
MW-4R	cis-1,2-Dichloroethene	12/11/12	15.3	ug/L	0.19	5	70				
MW-7	1,4-Dichlorobenzene	12/13/12	1.9	ug/L	0.33	1	6				
MW-7	**Benzene**	**12/13/12**	**4.7**	**ug/L**	**0.25**	**1**	**1**			**3.7**	**L &/or LFG**
MW-7	Trichloroethene	12/13/12	1	ug/L	0.47	1	3				
MW-7	cis-1,2-Dichloroethene	12/13/12	8.2	ug/L	0.19	5	70				
MW-9	Cobalt, total	12/11/12	130	ug/L	5	10			70	60	
MW-9	Zinc, total	12/11/12	13.3	ug/L	10	10	1050				
MW-9	Barium, total	12/11/12	127	ug/L	5	100	700				
MW-9	cis-1,2-Dichloroethene	12/11/12	12.1	ug/L	0.19	5	70				
MW-11	Cobalt, total	12/12/12	70.6	ug/L	5	10			70	0.6	
MW-11	**Benzene**	**12/12/12**	**3.3**	**ug/L**	**0.25**	**1**	**1**			**2.3**	**L &/or LFG**
MW-11	**1,4-Dichlorobenzene**	**12/12/12**	**7.6**	**ug/L**	**0.33**	**1**	**6**			**1.6**	**L &/or LFG**
MW-11	Zinc, total	12/12/12	81.9	ug/L	10	10	1050				
MW-11	cis-1,2-Dichloroethene	12/12/12	20.6	ug/L	0.19	5	70				
MW-11	Toluene	12/12/12	1.1	ug/L	0.26	1	600				
MW-11	Barium, total	12/12/12	106	ug/L	5	100	700				

Sample ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [2]	SWSL [3]	2L [4]	2B [5]	GWP [6]	Exceedance Amount	Preliminary Cause [7]
MW-12	**1,2-Dichloroethane**	**12/12/12**	**0.41 j**	**ug/L**	**0.12**	**1**	**0.38**			**0.03**	**L &/or LFG**
MW-12	**Tetrachloroethene**	**12/12/12**	**0.92 j**	**ug/L**	**0.46**	**1**	**0.7**			**0.22**	**L &/or LFG**
MW-12	**Benzene**	**12/12/12**	**6**	**ug/L**	**0.25**	**1**	**1**			**5**	**L &/or LFG**
MW-12	**1,4-Dichlorobenzene**	**12/12/12**	**8.8**	**ug/L**	**0.33**	**1**	**6**			**2.8**	**L &/or LFG**
MW-12	Zinc, total	12/12/12	141	ug/L	10	10	1050				
MW-12	cis-1,2-Dichloroethene	12/12/12	12.2	ug/L	0.19	5	70				
MW-12	Barium, total	12/12/12	105	ug/L	5	100	700				
MW-12	Cobalt, total	12/12/12	45	ug/L	5	10			70		
MW-12	Trichloroethene	12/12/12	2.4	ug/L	0.47	1	3				
MW-14	1,4-Dichlorobenzene	12/11/12	3.3	ug/L	0.33	1	6				
MW-14	cis-1,2-Dichloroethene	12/11/12	10.8	ug/L	0.19	5	70				
MW-14	Cobalt, total	12/11/12	28.7	ug/L	5	10			70		
MW-15	**Benzene**	**12/11/12**	**2.5**	**ug/L**	**0.25**	**1**	**1**			**1.5**	**L &/or LFG**
MW-15	Vanadium, total	12/11/12	5.7 j	ug/L	5	25			3.5	2.2	
MW-15	cis-1,2-Dichloroethene	12/11/12	8.4	ug/L	0.19	5	70				
MW-16	**1,2-Dichloropropane**	**12/13/12**	**1.1**	**ug/L**	**0.27**	**1**	**0.6**			**0.59**	**L &/or LFG**
MW-16	1,4-Dichlorobenzene	12/13/12	2.1	ug/L	0.33	1	6				
MW-16	**Tetrachloroethene**	**12/13/12**	**1.8**	**ug/L**	**0.46**	**1**	**0.7**			**1.1**	**L &/or LFG**
MW-16	**Benzene**	**12/13/12**	**2.6**	**ug/L**	**0.25**	**1**	**1**			**1.6**	**L &/or LFG**
MW-16	cis-1,2-Dichloroethene	12/13/12	19.1	ug/L	0.19	5	70				
MW-16	Trichloroethene	12/13/12	2.4	ug/L	0.47	1	3				
MW-16	Methylene Chloride	12/13/12	2.1	ug/L	0.97	1	4.6				
MW-16	Cobalt, total	12/13/12	26.2	ug/L	5	10			70		
MW-16	1,1-Dichloroethane	12/13/12	11.2	ug/L	0.32	5	6				
MW-16	Zinc, total	12/13/12	10.1	ug/L	10	10	1050				
MW-17	Cobalt, total	12/10/12	44.9	ug/L	5	10			70		
MW-18	Vanadium, total	12/12/12	19 j	ug/L	5	25			3.5	15.5	
MW-18	Copper, total	12/12/12	23.2	ug/L	5	10	1000				
MW-18	Chromium, total	12/12/12	12	ug/L	5	10	10				
MW-18	Cobalt, total	12/12/12	20.3	ug/L	5	10			70		
MW-18	Zinc, total	12/12/12	14.5	ug/L	10	10	1050				
MW-20	Methylene Chloride	12/11/12	1.3	ug/L	0.97	1	4.6				
MW-21	**Benzene**	**12/10/12**	**1.9**	**ug/L**	**0.25**	**1**	**1**			**0.9**	**L &/or LFG**
MW-21	Vanadium, total	12/10/12	6.5 j	ug/L	5	25			3.5	3	
MW-21	Zinc, total	12/10/12	14.5	ug/L	10	10	1050				
MW-21	cis-1,2-Dichloroethene	12/10/12	5.2	ug/L	0.19	5	70				
MW-21	Methylene Chloride	12/10/12	1	ug/L	0.97	1	4.6				
MW-21	Barium, total	12/10/12	100	ug/L	5	100	700				
MW-22	**Cadmium, total**	**12/10/12**	**2.8**	**ug/L**	**1**	**1**	**1.75**			**1.05**	**N**

Sample ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [2]	SWSL [3]	2L [4]	2B [5]	GWP [6]	Exceedance Amount	Preliminary Cause [7]
MW-24	Zinc, total	12/12/12	13.2	ug/L	10	10	1050				
MW-24	1,4-Dichlorobenzene	12/12/12	1.3	ug/L	0.33	1	6				
MW-24	Cobalt, total	12/12/12	22.6	ug/L	5	10			70		
MW-26	**Benzene**	**12/12/12**	**2.7**	**ug/L**	**0.25**	**1**	**1**			**1.7**	**L &/or LFG**
MW-26	Cobalt, total	12/12/12	96.6	ug/L	5	10			70	26.6	
MW-26	cis-1,2-Dichloroethene	12/12/12	25.6	ug/L	0.19	5	70				
MW-26	Zinc, total	12/12/12	29.5	ug/L	10	10	1050				
MW-27	cis-1,2-Dichloroethene	12/12/12	20.4	ug/L	0.19	5	70				
MW-27	Cadmium, total	12/12/12	1.3	ug/L	1	1	1.75				
MW-31	Vanadium, total	12/12/12	5.5 j	ug/L	5	25			3.5	2	
MW-31	Zinc, total	12/12/12	10.5	ug/L	10	10	1050				
MW-32	Zinc, total	12/11/12	13	ug/L	10	10	1050				
MW-33	Cobalt, total	12/12/12	23.4	ug/L	5	10			70		
MW-34	Vanadium, total	12/12/12	5.3 j	ug/L	5	25			3.5	1.8	
SW-5	**Cadmium, total**	**12/13/12**	**8.4**	**ug/L**	**1**	**1**		**2**		**6.4**	**N**
SW-6	Cobalt, total	12/13/12	21	ug/L	5	10		270			

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

[2] MDL = Method Detection Limit

[3] SWSL = Solid Waste Section Reporting Limit

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

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

[6] GWP = Groundwater Protection Standard

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

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

A = Artifact laboratory or field induced as detected in blank(s)

N = Natural from erosion of natural deposits

B = Background (hydraulically upgradient or upstream from landfill)

L = Leachate

LFG = Landfill Gas

BOLD = Concentration > 2L, or 2B Standard

Table 3
Detections in Water Samples above MDL (Appendix II Exclusive)
December 10-13, 2012

Sample ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [2]	SWSL [3]	2L [4]	GWP [5]	Exceedance	Preliminary Cause [6]
MW-3	Naphthalene	12/12/12	2.1 j	ug/L	0.24	10	6			
MW-4R	Mercury	12/11/12	0.17 j	ug/L	0.1	0.2	1.05			
MW-11	1,2,4-Trichlorobenzene	12/12/12	0.57 j	ug/L	0.35	10	70			
MW-11	Sulfide	12/12/12	242 j	ug/L	100	1000	NE	NE		
MW-12	1,2,4-Trichlorobenzene	12/12/12	0.83 j	ug/L	0.35	10	70			
MW-12D	Di-n-octylphthalate	12/12/12	3.1 j	ug/L	3.1	10	140			
MW-15	Mercury	12/11/12	0.5	ug/L	0.1	0.2	1.05			
MW-17	Mercury	12/10/12	0.21	ug/L	0.1	0.2	1.05			
MW-18	Cyanide	12/12/12	6.6 j	ug/L	5	10	70			
MW-1B	Mercury	12/13/12	0.44	ug/L	0.1	0.2	1.05			
MW-21	Mercury	12/10/12	0.25	ug/L	0.1	0.2	1.05			
MW-26	1,2,4-Trichlorobenzene	12/12/12	0.53 j	ug/L	0.35	10	70			
MW-26	1,3-Dichlorobenzene	12/12/12	8.9	ug/L	0.24	5	170			
MW-26	Sulfide	12/12/12	228 j	ug/L	100	1000	NE	NE		
FB	Isobutanol	12/13/12	84.5 j	ug/L	35	100	NE	NE		

[1] Table contains App II exclusive constituents detected over MDL
[2] MDL = Method Detection Limit
[3] SWSL = Solid Waste Section Reporting Limit
[4] 2L = North Carolina 15A NCAC 2L Groundwater Quality Standard
[5] GWP = Groundwater Protection Standard
[6] Preliminary Cause = Refers to a preliminary analysis of the cause and/or source of a detection over the respective 2L/2B Standard.
A definitive source of the detection was not determined as part of this report.
j = The reported value is estimated & between the laboratory MDL & the SWSL,
Adjusted for actual sample preparation data and moisture content
NE = Not Established
BOLD = Concentration >2L Standard

Table 4
Hydrologic Properties at Monitoring Well Locations
December 10-13, 2012

Monitoring Well	Hydraulic Conductivity (cm/sec)	Effective Porosity (%)	Hydraulic Gradient (ft/ft)	Average Linear Velocity Rate (ft/yr)	Flow Direction	Depth to Groundwater (ft btoc)	Groundwater Potentiometric Elevation (ft amsl)	Screened Interval Lithology
MW-2	3.70E-06	28	n/a	n/a	n/a	>30.45	<974.03	UC
MW-12	n/a	28	0.060	n/a	S15W	55.90	951.45	UC
MW-16	8.72E-04	17	0.036	193	S38E	32.35	1005.21	UC
MW-17	n/a	17	0.236	n/a	N56W	21.95	969.21	UC
MW-21	3.77E-03	28	0.282	3931	N36W	36.51	953.49	UC
MW-22	6.04E-04	28	0.449	1002	N56W	16.21	942.76	UC
MW-23	9.83E-04	28	0.260	946	N40W	19.30	931.18	UC
MW-24	1.33E-02	28	0.070	3429	S51W	33.01	941.03	UC
MW-31	n/a	28	0.011	n/a	S25W	28.18	957.24	UC
MW-33	n/a	28	0.201	n/a	S42E	17.17	990.23	UC
MW-34	n/a	28	0.022	n/a	S50E	9.35	1005.25	UC
Minimum	3.70E-006	17	0.011	193	-	9.35	931.18	-
Average	3.26E-003	26	0.163	1900	-	26.99	964.7	-
Maximum	1.33E-002	28	0.449	3931	-	55.9	1005.25	-
MW-1	5.60E-05	10	0.306	177	N07W	36.52	1044.02	UC/UBR
MW-3	3.90E-06	10	0.156	6	S21W	26.18	998.55	UC/UBR
MW-4R	4.90E-04	10	0.046	234	S27W	17.18	995.46	UC/UBR
MW-5	6.40E-05	28	0.049	12	S41E	43.82	1007.44	UC/UBR
MW-14	n/a	10	0.133	n/a	N47W	41.64	955.80	UC/UBR
MW-15	n/a	10	0.344	n/a	N53W	25.85	997.59	UC/UBR
Minimum	3.90E-06	10	0.046	6	-	17.18	955.8	-
Average	1.53E-04	13	0.172	107	-	31.87	999.81	-
Maximum	4.90E-04	28	0.344	234	-	43.82	1044.02	-
MW-1B	n/a	10	0.118	n/a	N04W	47.25	1035.31	UBR
MW-6	2.40E-05	10	0.310	77	N39W	26.27	975.57	UBR
MW-7	1.60E-06	10	0.160	3	S20W	43.18	966.06	UBR
MW-9	n/a	10	0.106	n/a	S28E	13.03	983.24	UBR
MW-11	n/a	10	0.141	n/a	S20W	43.18	968.78	UBR
MW-13	n/a	10	0.071	n/a	N48W	32.35	972.21	UBR
MW-19	1.92E-06	10	0.091	2	N63W	54.12	1017.36	UBR
MW-20	5.49E-05	10	0.025	14	N86W	41.24	1005.68	UBR
MW-25	5.41E-05	10	0.022	12	S58W	33.99	947.94	UBR
MW-26	1.16E-04	10	0.064	77	S23W	32.76	957.93	UBR
MW-27	2.83E-05	10	0.092	27	S13W	23.97	968.22	UBR
MW-32	n/a	10	0.105	n/a	S05E	32.37	992.89	UBR
Minimum	1.60E-06	10	0.022	2	-	13.03	947.94	-
Average	4.01E-05	10	0.109	30	-	35.31	982.60	-
Maximum	1.16E-04	10	0.310	77	-	54.12	1035.31	-
MW-10	n/a	10	0.050	n/a	n/a	38.79	1002.01	LBR
MW-12D	n/a	10	-0.011	n/a	n/a	47.04	961.42	LBR
MW-18	1.19E-04	10	0.055	n/a	n/a	54.50	1029.83	LBR
Minimum	1.19E-04	10	-0.011	-	-	38.79	961.42	-
Average	1.19E-04	10	0.032	-	-	46.78	997.75	-
Maximum	1.19E-04	10	0.055	-	-	54.50	1029.83	-

NOTE: Values for hydraulic conductivity obtained from GAI Consultants Sampling Report (April, 1995) & MESCO ACM Report (2008).
Average Linear Groundwater Velocities calculated only for UC & UBR wells with hydraulic conductivity values.
UC = Unconfined/saprolite; UBR = Upper Bedrock fracture system; LBR = Lower Bedrock fracture system.
Wells screened in LBR not utilized for flow directions/gradients.
Hydrologic Gradient taken from water elevations recorded between December 10-13, 2012.
Flow rate (Q) calculated via modified Darcy's equation:

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

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

Table 5
Field Observations of Monitoring Locations
December 10-13, 2012

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	Slight	
MW-1A	No	Yes	Yes	Yes	Yes	Yes	na	Dry
MW-1B	Yes	Yes	Yes	Yes	Yes	Yes	Clear	
MW-2	No	Yes	Yes	Yes	Yes	Yes	na	Dry-rare occurrence
MW-3	Yes	Yes	Yes	Yes	Yes	Yes	Clear	
MW-4R	Yes	Yes	Yes	Yes	Yes	Yes	Clear	
MW-5	Yes	Yes	Yes	Yes	Yes	Yes	20.8	
MW-6	Yes	Yes	Yes	Yes	Yes	Yes	29.7	
MW-7	Yes	Yes	Yes	Yes	Yes	Yes	na	Phytoremediation transducer data downloaded
MW-9	Yes	Yes	Yes	Yes	Yes	Yes	Slight	
MW-10	Yes	Yes	Yes	Yes	Yes	Yes	Clear	Purge water has sulphur smell. Very slow recharge
MW-11	Yes	Yes	Yes	Yes	Yes	Yes	133	
MW-12	Yes	Yes	Yes	Yes	Yes	Yes	18.9	Phytoremediation transducer data downloaded
MW-12D	Yes	Yes	Yes	Yes	Yes	Yes	19.1	
MW-13	Yes	Yes	Yes	Yes	Yes	Yes	Clear	
MW-14	Yes	Yes	Yes	Yes	Yes	Yes	Slight	
MW-15	Yes	Yes	Yes	Yes	Yes	Yes	Clear	
MW-16	Yes	Yes	Yes	Yes	Yes	Yes	91.2	
MW-17	Yes	Yes	Yes	Yes	Yes	Yes	Clear	
MW-18	Yes	Yes	Yes	Yes	Yes	Yes	582	
MW-19	Yes	Yes	Yes	Yes	Yes	Yes	Clear	
MW-20	Yes	Yes	Yes	Yes	Yes	Yes	Clear	
MW-21	Yes	Yes	Yes	Yes	Yes	Yes	Clear	
MW-22	Yes	Yes	Yes	Yes	Yes	Yes	Clear	
MW-23	Yes	Yes	Yes	Yes	Yes	Yes	Slight	
MW-24	Yes	Yes	Yes	Yes	Yes	Yes	Slight	
MW-25	Yes	Yes	Yes	Yes	Yes	Yes	82.1	
MW-26	Yes	Yes	Yes	Yes	Yes	Yes	28.9	
MW-27	Yes	Yes	Yes	Yes	Yes	Yes	33.2	
MW-31	Yes	Yes	Yes	Yes	Yes	Yes	Clear	
MW-32	Yes	Yes	Yes	Yes	Yes	Yes	Clear	
MW-33	Yes	Yes	Yes	Yes	Yes	Yes	207	
MW-34	Yes	Yes	Yes	Yes	Yes	Yes	192	
SW-3	Yes	-	-	-	-	-	Clear	
SW-4R	Yes	-	-	-	-	-	Clear	
SW-5	Yes	-	-	-	-	-	Clear	
SW-6	Yes	-	-	-	-	-	Clear	

Any unusual field conditions, observations, or events:

None to note.

Table 6
Field Parameter Data Summary
December 10-13, 2012

Parameter	Water Depth	Water Elevation	TOC Elevation	Temp.	ORP	DO	pH	Specific Conductance	TDS	Turbidity of Metal Sample
Units	**ft (btoc)**	**ft (amsl)**	**ft (amsl)**	**C**	**mV**	**mg/L**	**SU**	**umhos/cm**	**mg/L**	**Visual or NTU**
MW-1	36.52	1044.02	1080.54	16.9	-61	0.3	6.38	600	290	Slight
MW-1B	47.25	1035.31	1082.56	15.7	352	0.3	5.88	90	40	Clear
MW-2	>30.45	<974.03	1004.48	NR	NR	NR	NR	NR	NR	NR
MW-3	26.18	998.55	1024.73	15.5	-28	0.2	5.99	280	130	Clear
MW-4R	17.18	995.46	1012.64	17.1	-92	0.1	6.61	900	440	Clear
MW-5	43.82	1007.44	1051.26	15.1	-71	0.4	6.68	400	190	20.8
MW-6	35.22	975.57	1010.79	12.4	183	0.7	6.82	420	200	29.7
MW-7	41.21	968.03	1009.24	15.9	-101.0	0.1	7.1	510	250	Clear
MW-9	13.03	983.24	996.27	17.1	132	0.1	6.88	650	320	Slight
MW-10	38.79	1002.01	1040.80	14.4	-62	0.7	7.21	300	140	Clear
MW-11	43.18	968.78	1011.96	15.9	103	0.8	5.99	160	70	133
MW-12	55.90	951.45	1007.35	10.1	86	0.9	6.01	180	80	18.9
MW-12D	64.80	943.66	1008.46	10.5	-91	0.1	7.14	810	400	19.1
MW-13	47.04	957.52	1004.56	9.9	58	0.9	6.58	270	130	Clear
MW-14	41.64	955.80	997.44	14.3	126	0.9	5.97	610	300	Clear
MW-15	25.85	997.59	1023.44	14.7	-61	0.3	6.64	300	140	Clear
MW-16	32.35	1005.21	1037.56	11.1	151	0.3	6.53	180	90	91.2
MW-17	21.95	969.21	991.16	13.3	127	1.6	6.07	100	40	Slight
MW-18	54.50	1029.83	1084.33	12.4	-81	3.1	6.93	40	20	582
MW-19	54.12	1017.36	1071.48	15.1	207	2.0	6.53	40	10	Clear
MW-20	41.24	1005.68	1046.92	14.4	63	1.3	6.42	80	30	Clear
MW-21	36.51	953.49	990.00	13.8	302	2.1	5.91	60	20	Clear
MW-22	16.21	942.76	958.97	15.7	238	5.7	6.32	40	10	Clear
MW-23	19.30	931.18	950.48	15.5	201	6.2	6.87	120	50	Slight
MW-24	33.01	941.03	974.04	12.4	390	0.3	5.93	180	90	Slight
MW-25	33.99	947.94	981.93	12.1	153	0.3	6.47	190	90	82.1
MW-26	32.76	957.93	990.69	15.4	281	0.3	6.33	290	140	28.9
MW-27	23.97	968.22	992.19	14.8	303	3.1	6.33	500	240	33.2
MW-31	28.18	957.24	985.42	14.5	205	0.4	5.81	100	40	Clear
MW-32	32.37	992.89	1025.26	14.9	291	1.1	7.01	100	40	Clear
MW-33	14.17	993.23	1007.40	15.2	112	4.7	5.89	60	30	207
MW-34	9.35	1005.25	1014.60	15.4	145	4.5	6.73	80	30	192
Minimum	9.35	931.18	950.48	9.9	-101	0.1	5.81	40	10	Clear
Average	34.24	980.74	1014.65	14.24	115	1.4	6.45	279	132	Slight
Maximum	64.8	1044.02	1084.33	17.1	390	6.2	7.21	900	440	625
SW-3	-	-	-	8.8	10	6.8	6.82	70	30	Clear
SW-4R	-	-	-	8.4	27	7.1	6.99	80	30	Clear
SW-5	-	-	-	8.6	39	6.8	6.93	100	40	Clear
SW-6	-	-	-	8.8	53	7.2	6.88	70	30	Clear
Minimum	-	-	-	8.4	10	6.8	6.82	70	30	Clear
Average	-	-	-	8.7	32	7.0	6.91	80	33	Clear
Maximum	-	-	-	8.8	53	7.2	6.99	100	40	Clear

NR = No Reading Attempted

Table 7
MNA Parameter Data Summary
December 12-13, 2012

Parameters	Method	MDL*	Units	MW-3	MW-6	MW-11	MW-12	MW-12D	MW-16	MW-24	MW-25	MW-26	MW-27	MW-18	MW-31	MW-33	MW-34	MW-5	MW-7
				12/12/12	12/12/12	12/12/12	12/12/12	12/12/12	12/12/12	12/12/12	12/12/12	12/12/12	12/12/12	12/12/12	12/12/12	12/12/12	12/12/12	12/13/12	12/12/12
VFA – Acetic Acid	AM23G	21	ug/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	570	96	NS	NS	NS
VFA – Butyric Acid	AM23G	7	ug/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<7	<7	NS	NS	NS
VFA – Lactic Acid	AM23G	32	ug/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<32	90	NS	NS	NS
VFA – Propionic Acid	AM23G	4	ug/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	150	<4	NS	NS	NS
VFA – Pyruvic Acid	AM23G	4	ug/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<4	<4	NS	NS	NS
Hydrogen	AM20GAX	0.07	nM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.93	NS	NS	NS
Methane	5	0.00043	ug/L	NS	0.501	4.58	7.40	4.08	7.91	0.000731	3.45	0.524	0.00153	0.000900	0.115	4.8	0.07	2.28	NS
Ethene	AM20GAX	0.007	ug/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<0.007	<0.007	NS	NS
Ethane	AM20GAX	0.001	ug/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.001	<0.001	NS	NS
CO2-Dissolved	Field HACH Kit	5	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	40	70	NS	NS
Alkalinity	SM 2320B	1000	ug/L	127000	NS	193000	72600	342000	NS	35500	NS	204000	73200	<1000	37100	<1000	3370	NS	NS
Sulfate	EPA 300.0	2000	ug/L	<2000	NS	3160	3470	2820	NS	5880	NS	6190	7240	7290	<2000	11000	5970	NS	NS
Sulfide	SM 4500-S2D	100	ug/L	<100	NS	242	<100	<100	<100	<100	NS	228	<100	<100	<100	<100	<100	NS	<100
Chloride	SM 4500-Cl-E	5000	ug/L	19000	NS	30200	10200	53500	NS	22600	NS	23700	19500	1150	10400	4070	1280	NS	NS
TOC	SM 5310B	1000	ug/L	14000	NS	17800	19200	10100	NS	9330	NS	17800	6590	4790	7310	6570	2300	NS	NS
COD	SM 5220D	25000	ug/L	NS	NS	<25000	NS	NS	NS	NS	NS	76000	<25000	<25000	<25000	NS	NS	NS	NS
BOD	SM5210B	2000	ug/L	5900	NS	2300	NS	NS	NS	NS	NS	<2000	<2000	<2000	<2000	<2000	<2000	NS	NS
Iron (total)	EPA 6010	50	ug/L	NS	NS	29900	8560	1540	NS	1710	NS	25400	271	18300	2610	2820	3150	NS	NS
Nitrate	EPA 353.2	20	ug/L	NS	NS	<20	<20	43.5	NS	331	NS	<20	293	62.2	533	59.9	167	NS	NS
Temperature	Field Instrument	0	C	15.5	12.4	15.9	10.1	10.5	11.1	12.4	12.1	15.4	14.8	12.4	14.5	15.2	15.4	15.1	15.9
ORP	Field Instrument	-900	mV	-28	183	103	86	-91	151	390	153	281	303	-81	205	112	145	-71	-101
DO	Field Instrument	0	mg/L	0.2	0.7	0.8	0.9	0.1	0.3	0.3	0.3	0.3	3.1	3.1	0.4	4.7	4.5	0.4	0.1
pH	Field Instrument	0	SU	5.99	6.82	5.99	6.01	7.14	6.53	5.93	6.47	6.33	6.33	6.93	5.81	5.89	6.73	6.68	7.07
Sp. Conductance	Field Instrument	0	us/cm	280	420	160	180	810	180	180	190	290	500	40	100	60	80	400	510
Turbidity	Field Instrument	0	NTU	Clear	29.7	133	18.9	19.1	91.2	Slight	82.1	28.9	33.2	582	Clear	207	192	20.8	Clear

Notes:
VFA = Volatile Fatty Acids
MDL* = Lab Method Detection Limit or lowest field measurement possible. Constituents detected below quantifiable limits are shown as < MDL value.
>100 = CO_2 Concentration exceeds maximum capability of method used.
MNA monitoring not required for MW-31 by SWS but recorded per UIC.
NS = Not Sampled since not required during this specific event.

Table 8
Phytoremediation Tree Measurement Summary
September 27, 2012 and December 13, 2012

Tree ID	Date Planted	Sep 27, 12				Notes	Dec 13, 12				Notes	Sep 27, 2012 Compared to Dec 13, 2012			
		Height (in)	Width Middle (in)	Trunk Circ. (in)	Total (Ht + Width + Circ.) (in)		Height (in)	Width Middle (in)	Trunk Circ. (in)	Total (Ht + Width + Circ.)		Height (in)	Width Middle (in)	Trunk Circ. (in)	Total (Ht + Width + Circ.) (in)
1	5/25/10	180	138	2	320		183	148	2	333		3	10	0	13
2	5/25/10	0	0	0	0	AD	0	0	0	0	AD	0	0	0	0
3	5/25/10	120	70	2	192		122	74	2	198		2	4	0	6
4	5/25/10	120	66	4	190		124	68	4	196		4	2	0	6
5	5/25/10	42	25	2	69		46	22	2	70		4	-3	0	0
6	5/25/10	36	17	2	55		34	18	2	54		-2	1	0	-1
7	5/25/10	34	23	2	58		18	13	2	33	AW	-16	-10	0	-25
8	5/25/10	119	50	4	173		120	52	4	176		1	2	0	3
9	5/25/10	72	29	2	103		80	31	2	113		8	2	0	10
10	5/25/10	26	20	1	47		0	0	0	0	AD	-26	-20	-1	-47
Min.	-	0	0	0	0	-	0	0	0	0	-	-26	-20	-1	-47
Avg.	-	75	44	2	121	-	73	43	2	117	-	-2	-1	0	-3
Max.	-	180	138	4	320	-	183	148	4	333	-	8	10	0	13

NOTES:
AD = Appears Dead
AW -= Appears Weak (Poor Health)

Appendix A
Laboratory Analysis Reports
Chains of Custody

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

January 08, 2013

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

RE: Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Dear Mr. Pfohl:
Enclosed are the analytical results for sample(s) received by the laboratory between December 13, 2012 and December 14, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

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

Sincerely,

Kevin Godwin

kevin.godwin@pacelabs.com
Project Manager

Enclosures

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Partial submittal. Future samples to be submitted & Reported w/ these!

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A — Required Client Information:

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

Section B — Required Project Information:

Report To:	Jonathan Pfohl
Copy To:	
Purchase Order No.	
Client Project ID:	Alexander LF- SWS
Container Order Number:	

Section C — Invoice Information:

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

Regulatory Agency:

State / Location: North Carolina

Requested Analysis Filtered (Y/N)

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	VOCs Appendix 2	Total Metals Appendix 2	Alkalinity	Chloride	Sulfate	Sulfide	TOC	COD	Iron	Nitrate			
																			N	N	N	N	N	N	N	N	N	N	N	N	92141862
1	MW-1	WT	G						4			1	3						x	x				x							
2	MW-1B	WT	G						4			1	3						x	x				x							
3	~~MW-2~~	WT	G						~~4~~			~~1~~	~~3~~						~~x~~	~~x~~				~~x~~							
4	MW-4R	WT	G	12/11/12	11:50				4			1	3						x	x				x							001
5																															
6																															
7	MW-9	WT	G	12/11/12	2:50				4			1	3						x	x				x							002
8	MW-10	WT	G	12/11/12	1:05				4			1	3						x	x				x							003
9	MW-12	WT	G	12/12/12	4:40				4			1	3						x	x	x	x	x	x	x	x	x	x			008
10	MW-12D	WT	G	12/12/12	4:05				4			1	3						x	x	x	x	x	x	x	x	x	x			009
11	MW-13	WT	G	12/13/12	8:40				4			1	3						x	x				x							004
12	MW-14	WT	G	12/11/12	3:35				4			1	3						x	x				x							005

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

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	MES / PAec	12/13/12	7:30	PAec	12/13/12	730	
	PAec	12/13/12	1:55		12/13/12	14:55	2.7 ✓ ✓ ✓

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	Jonathan Pfohl
SIGNATURE of SAMPLER:	DATE Signed: 12/12/12

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

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A — Required Client Information:

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

Section B — Required Project Information:

Report To:	Jonathan Pfohl
Copy To:	
Purchase Order No.	
Client Project ID:	Alexander LF- SWS
Container Order Number:	

Section C — Invoice Information:

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

Regulatory Agency:

State / Location: North Carolina

Requested Analysis Filtered (Y/N)

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test (Y/N)	VOCs Appendix 2	Total Metals Appendix 2	Alkalinity	Chloride	Sulfate	Sulfide	TOC	COD	Iron	Nitrate		BOD		92441862
																			N	N	N	N	N	N	N	N	N	N	N		
1	MW-15	WT	G	12/11/12	2:00				4			3	1						x	x				x							006
2	MW-16	WT	G						4			3	1						x	x				x							
3	MW-17	WT	G	12/10/12	3:25				4			3	1						x	x				x							007
4	MW-18	WT	G	12/12/12	9:00														x	x	x	x	x	x	x	x	x	x		x	020
5	MW-19	WT	G	12/11/12	4:05				4			3	1						x	x				x							008
6	MW-20	WT	G	12/11/12	4:40				4			3	1						x	x				x							009
7	MW-21	WT	G	12/10/12	2:45				4			3	1						x	x				x							010
8	MW-22	WT	G	12/10/12	2:05				4			3	1						x	x				x							011
9	MW-23	WT	G	12/10/12	1:00				4			3	1						x	x				x							012
10	MW-24	WT	G	12/12/12	11:00				4			3	1						x	x	x	x	x	x	x	x	x	x			021
11	MW-32	WT	G	12/11/12	10:05				4			3	1						x	x				x							013
12																															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	John / MESCO	12/13/12	7:30	[signature] / PACE	12-13/12	7:30	
	[signature] / PACE	12/13/12	1455	[signature]	12/13/12	14:55	2.7 yes — yes

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jonathan Pfohl

SIGNATURE of SAMPLER: [signature] DATE Signed: 12/13/12

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

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A — Required Client Information:

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

Section B — Required Project Information:

Report To:	Jonathan Pfohl
Copy To:	
Purchase Order No.	
Client Project ID:	Alexander LF (SWS)
Container Order Number:	

Section C — Invoice Information:

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

Regulatory Agency:

State / Location: North Carolina

Requested Analysis Filtered (Y/N)

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes)	SAMPLE TYPE (G=GRAB C)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTI	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	VOCs Appendix I	Total Metals Appendix				Sulfide					VOCs Appendix 2	Total Metals Appendix		92141862
																			N	N	N	N	N	N	N	N	N	N	N	N		
1	SW-3	WT	G	12/10/12	4:00				4			3	1						x	x												014
2	SW-4R	WT	G	12/10/12	1:10				4			3	1						x	x												015
3	SW-5	WT	G						4			3	1						x	x												
4	SW-6	WT	G						4			3	1						x	x												
5	MW-33	WT	G	12/12/12	9:30				4			3	1																x	x		016
6	MW-34	WT	G	12/12/12	10:10				4			3	1																x	x		017
7	EB	WT	G						4			3	1																x	x		
8	FB	WT	G						4			3	1																x	x		
9	TB	WT	G						2				2																x			
10																																
11																																
12																																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	MESCO	12/13/12	7:30	Pace	12-13-12	7:30	
	Pace	12/13/12	1455		12/13/12	14:55	

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jonathan Pfohl

SIGNATURE of SAMPLER: DATE Signed: 12/12/12

1455

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A — Required Client Information:

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

Section B — Required Project Information:

Report To:	Jonathan Pfohl
Copy To:	
Purchase Order No.	
Client Project ID:	Alexander LF (SWS)
Container Order Number:	

Section C — Invoice Information:

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

Regulatory Agency	
State / Location	
	North Carolina

Requested Analysis Filtered (Y/N)

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test (Y/N)	Hydrogen (Microseeps)	Methane/Ethane/Ethene (Microseeps)	VFAs (Microseeps via AM23G)	Alkalinty	Chloride	Sulfate	Sulfide	TOC	COD	BOD	Iron	Nitrate	92141862
																			N	N	N	N	N	N	N	N	N	N	N	N	
1	MW-33	WT	G	12/12/12	9:30														x	x	x	x	x	x	x	x	x	x	x	x	016
2	MW-34	WT	G	12/12/12	10:10														x	x	x	x	x	x	x	x	x	x	x	x	017
3																															
4																															
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															

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

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	(MESCO	12/13/12	7:30	Pace	12-13-12	7:30	
	Pace	12/13/12	1455		12/13/12	14:55	2.7 Y N / N Y

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	Jonathan Pfohl		
SIGNATURE of SAMPLER:		DATE Signed:	12/12/12

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

Pace Analytical	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: October 31, 2012 Page 1 of 2
	Document Number: **F-CHR-CS-03-rev.08**	Issuing Authority: Pace Huntersville Quality Office

Client Name: Municipal **Project #** 92141862

Where Received: ☒ Huntersville ☐ Asheville ☐ Eden ☐ Raleigh

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 T1101 T1102 **Type of Ice:** Wet Blue None ☒ Samples on ice, cooling process has begun

Temp Correction Factor **T1101**: No Correction **T1102**: No Correction

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

Temp should be above freezing to 6°C

Date and Initials of person examining contents: mmj - 12/11/12

		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 MW1, MW18, MW24
Correct Containers Used:	☒Yes ☐No ☐N/A	9. SW5, SW4, FB, FB, TB
-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: 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	ph = 9 for metals SW4R ph = 7 for metals MW33
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed
Samples checked for dechlorination:	☒Yes ☐No ☐N/A	14. ph = 6 for sulfide MW12
Headspace in VOA Vials (>6mm):	☐Yes ☒No ☐N/A	15. ph = 7 for metals MW13
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: LB **Date:** 12/13/12 **SRF Review:** GW **Date:** 12/14/12

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)

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A
Required Client Information:

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

Section B
Required Project Information:

Report To:	Jonathan Pfohl
Copy To:	
Purchase Order No.	
Client Project ID:	Alexander LF- SWS
Container Order Number:	

Section C
Invoice Information:

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

Regulatory Agency
State / Location
North Carolina

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

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

Requested Analysis Filtered (Y/N)

ITEM#	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	VOCs Appendix 2 (N)	Total Metals Appendix 2 (N)	Sulfide (N)	92141862
1	MW-1	WT	G			12/13/12	03:00 PM		5			1	3				1		x	x	x	022
2		WT	G																			
3	MW-1B	WT	G			12/13/12	02:20 PM		5			1	3				1		x	x	x	023
4	SW-5	WT	G			12/13/12	09:35 AM		4			1	3						x	x		024
5	SW-6	WT	G			12/13/12	09:55 AM		4			1	3						x	x		025
6	MW-7	WT	G			12/13/12	12:00 PM		5			1	3				1		x	x	x	026
7	MW-16	WT	G			12/13/12	01:30 PM		5			1	3				1		x	x	x	027
8	EB	WT	G			12/13/12	08:30 AM		4			1	3						x	x		028
9	FB	WT	G			12/13/12	08:40 AM		4			1	3						x	x		029
10	TB	WT	G			12/13/12	PACE FILLED		3				3						x			030
11		WT	G																			
12		WT	G																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
DI water for blanks provided by Pace.	J. Pfohl/MESCO	12/14/12	08:35:00 AM	Jeff/PACE	12/14/2012	8:35 AM				
EB Geotech D Bailer				RP / Pace	12-14-12	8:40 AM	3.2	Y	N	Y

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER: Jonathan Pfohl	
SIGNATURE of SAMPLER:	DATE Signed: 12/14/12

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

Pace Analytical	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: October 31, 2012 Page 1 of 2
	Document Number: **F-CHR-CS-03-rev.08**	Issuing Authority: Pace Huntersville Quality Office

Client Name: Municipal Engine. Serv. Project # 9214186 2

Where Received: ☒ Huntersville ☐ Asheville ☐ Eden ☐ Raleigh

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 (T1101) T1102 **Type of Ice:** (Wet) Blue None ☒ Samples on ice, cooling process has begun

Temp Correction Factor **T1101**: No Correction **T1102**: No Correction

Corrected Cooler Temp.: 3.2 C **Biological Tissue is Frozen:** Yes No (N/A)

Date and Initials of person examining contents: RP 12-14-12

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. RP 12-14-12
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix:_____	☐Yes ☒No ☐N/A	12. ~~FB – one vials missing~~ RP 12/14/12 FB – No Date on Sample No Time TB – No Date on Sample No Time received Dissolved Metals for MW18
All containers needing preservation have been checked.	☒Yes ☐No ☐N/A	13. MW16-Metals pH=7 MW16 not on COC.
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: JG **Date:** 12/14/12 **SRF Review:** JG **Date:** 12/14/12

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)

CERTIFICATIONS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Charlotte Certification IDs

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

Asheville Certification IDs

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

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without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

SAMPLE SUMMARY

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92141862001	**MW-4R**	Water	12/11/12 11:50	12/13/12 14:55
92141862002	**MW-9**	Water	12/11/12 14:50	12/13/12 14:55
92141862003	**MW-10**	Water	12/11/12 13:05	12/13/12 14:55
92141862004	**MW-13**	Water	12/11/12 08:40	12/13/12 14:55
92141862005	**MW-14**	Water	12/11/12 15:35	12/13/12 14:55
92141862006	**MW-15**	Water	12/11/12 14:00	12/13/12 14:55
92141862007	**MW-17**	Water	12/10/12 15:25	12/13/12 14:55
92141862008	**MW-19**	Water	12/11/12 16:05	12/13/12 14:55
92141862009	**MW-20**	Water	12/11/12 16:40	12/13/12 14:55
92141862010	**MW-21**	Water	12/10/12 14:45	12/13/12 14:55
92141862011	**MW-22**	Water	12/10/12 14:05	12/13/12 14:55
92141862012	**MW-23**	Water	12/10/12 13:00	12/13/12 14:55
92141862013	**MW-32**	Water	12/11/12 10:05	12/13/12 14:55
92141862014	**SW-3**	Water	12/10/12 16:00	12/13/12 14:55
92141862015	**SW-4R**	Water	12/10/12 13:10	12/13/12 14:55
92141862016	**MW-33**	Water	12/12/12 09:30	12/13/12 14:55
92141862017	**MW-34**	Water	12/12/12 10:10	12/13/12 14:55
92141862018	**MW-12**	Water	12/12/12 16:40	12/13/12 14:55
92141862019	**MW-12D**	Water	12/12/12 16:05	12/13/12 14:55
92141862020	**MW-18**	Water	12/12/12 09:00	12/13/12 14:55
92141862021	**MW-24**	Water	12/12/12 11:00	12/13/12 14:55
92141862022	**MW-1**	Water	12/13/12 15:00	12/14/12 14:00
92141862023	**MW-1B**	Water	12/13/12 14:20	12/14/12 14:00
92141862024	**SW-5**	Water	12/13/12 09:35	12/14/12 14:00
92141862025	**SW-6**	Water	12/13/12 09:55	12/14/12 14:00
92141862026	**MW-7**	Water	12/13/12 12:00	12/14/12 14:00
92141862027	**MW-16**	Water	12/13/12 13:30	12/14/12 14:00
92141862028	**EB**	Water	12/13/12 08:30	12/14/12 14:00
92141862029	**FB**	Water	12/13/12 08:40	12/14/12 14:00
92141862030	**TB**	Water	12/13/12 00:00	12/14/12 14:00

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SAMPLE ANALYTE COUNT

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92141862001	**MW-4R**	EPA 6010	JMW	16	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8260	MCK	68	PASI-C
		SM 4500-S2D	AES	1	PASI-A
92141862002	**MW-9**	EPA 6010	JMW	16	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8260	MCK	68	PASI-C
		SM 4500-S2D	AES	1	PASI-A
92141862003	**MW-10**	EPA 6010	JMW	16	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8260	MCK	68	PASI-C
		SM 4500-S2D	AES	1	PASI-A
92141862004	**MW-13**	EPA 6010	JMW	16	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8260	MCK	68	PASI-C
		SM 4500-S2D	AES	1	PASI-A
92141862005	**MW-14**	EPA 6010	JMW	16	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8260	MCK	68	PASI-C
		SM 4500-S2D	AES	1	PASI-A
92141862006	**MW-15**	EPA 6010	JMW	16	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8260	MCK	68	PASI-C
		SM 4500-S2D	AES	1	PASI-A
92141862007	**MW-17**	EPA 6010	JMW	16	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8260	MCK	68	PASI-C
		SM 4500-S2D	AES	1	PASI-A
92141862008	**MW-19**	EPA 6010	JMW	16	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8260	MCK	68	PASI-C
		SM 4500-S2D	AES	1	PASI-A
92141862009	**MW-20**	EPA 6010	JMW	16	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8260	MCK	68	PASI-C
		SM 4500-S2D	AES	1	PASI-A
92141862010	**MW-21**	EPA 6010	JMW	16	PASI-A

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SAMPLE ANALYTE COUNT

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 7470	SH1	1	PASI-A
		EPA 8260	MCK	68	PASI-C
		SM 4500-S2D	AES	1	PASI-A
92141862011	**MW-22**	EPA 6010	JMW	16	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8260	MCK	68	PASI-C
		SM 4500-S2D	AES	1	PASI-A
92141862012	**MW-23**	EPA 6010	JMW	16	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8260	MCK	68	PASI-C
		SM 4500-S2D	AES	1	PASI-A
92141862013	**MW-32**	EPA 6010	JMW	16	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8260	MCK	68	PASI-C
		SM 4500-S2D	AES	1	PASI-A
92141862014	**SW-3**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	52	PASI-C
92141862015	**SW-4R**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	52	PASI-C
92141862016	**MW-33**	EPA 6010	JMW	17	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8260	MCK	68	PASI-C
		SM 2320B	KCS	1	PASI-A
		SM 4500-S2D	AES	1	PASI-A
		SM 5210B	JBH	1	PASI-A
		EPA 300.0	AES	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 4500-Cl-E	JDA	1	PASI-A
		SM 5220D	AES	1	PASI-A
		SM 5310B	AES	1	PASI-A
92141862017	**MW-34**	EPA 6010	JMW	17	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8260	MCK	68	PASI-C
		SM 2320B	KCS	1	PASI-A
		SM 4500-S2D	AES	1	PASI-A
		SM 5210B	JBH	1	PASI-A
		EPA 300.0	AES	1	PASI-A

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SAMPLE ANALYTE COUNT

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 353.2	DMN	1	PASI-A
		SM 4500-Cl-E	JDA	1	PASI-A
		SM 5220D	AES	1	PASI-A
		SM 5310B	AES	1	PASI-A
92141862018	**MW-12**	EPA 6010	JMW	17	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8260	MCK	68	PASI-C
		SM 2320B	KCS	1	PASI-A
		SM 4500-S2D	AES	1	PASI-A
		EPA 300.0	AES	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 4500-Cl-E	JDA	1	PASI-A
		SM 5220D	AES	1	PASI-A
		SM 5310B	AES	1	PASI-A
92141862019	**MW-12D**	EPA 6010	JMW	17	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8260	MCK	68	PASI-C
		SM 2320B	KCS	1	PASI-A
		SM 4500-S2D	AES	1	PASI-A
		EPA 300.0	AES	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 4500-Cl-E	JDA	1	PASI-A
		SM 5220D	AES	1	PASI-A
		SM 5310B	AES	1	PASI-A
92141862020	**MW-18**	EPA 6010	JMW	17	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8260	MCK	68	PASI-C
		SM 2320B	KCS	1	PASI-A
		SM 4500-S2D	AES	1	PASI-A
		SM 5210B	JBH	1	PASI-A
		EPA 300.0	AES	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 4500-Cl-E	JDA	1	PASI-A
		SM 5220D	AES	1	PASI-A
		SM 5310B	AES	1	PASI-A
92141862021	**MW-24**	EPA 6010	JMW	17	PASI-A
		EPA 7470	SH1	1	PASI-A

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SAMPLE ANALYTE COUNT

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260	MCK	68	PASI-C
		SM 2320B	KCS	1	PASI-A
		SM 4500-S2D	AES	1	PASI-A
		EPA 300.0	AES	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 4500-Cl-E	JDA	1	PASI-A
		SM 5220D	AES	1	PASI-A
		SM 5310B	AES	1	PASI-A
92141862022	**MW-1**	EPA 6010	JMW	16	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8260	MCK	68	PASI-C
		SM 4500-S2D	AES	1	PASI-A
92141862023	**MW-1B**	EPA 6010	JMW	16	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8260	MCK	68	PASI-C
		SM 4500-S2D	AES	1	PASI-A
92141862024	**SW-5**	EPA 6010	JMW	16	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8260	MCK	68	PASI-C
92141862025	**SW-6**	EPA 6010	JMW	16	PASI-A
		EPA 7470	DMB	1	PASI-A
		EPA 8260	MCK	68	PASI-C
92141862026	**MW-7**	EPA 6010	JMW	16	PASI-A
		EPA 7470	DMB	1	PASI-A
		EPA 8260	MCK	68	PASI-C
		SM 4500-S2D	AES	1	PASI-A
92141862027	**MW-16**	EPA 6010	JMW	16	PASI-A
		EPA 7470	DMB	1	PASI-A
		EPA 8260	MCK	68	PASI-C
		SM 4500-S2D	AES	1	PASI-A
92141862028	**EB**	EPA 6010	JMW	16	PASI-A
		EPA 7470	DMB	1	PASI-A
		EPA 8260	MCK	68	PASI-C
92141862029	**FB**	EPA 6010	JMW	16	PASI-A
		EPA 7470	DMB	1	PASI-A
		EPA 8260	MCK	68	PASI-C
92141862030	**TB**	EPA 8260	MCK	68	PASI-C

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-4R **Lab ID: 92141862001** Collected: 12/11/12 11:50 Received: 12/13/12 14:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010		Preparation Method: EPA 3010						
Antimony	ND	ug/L	6.0	5.0	1	12/15/12 12:00	12/19/12 22:37	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 22:37	7440-38-2	
Barium	**117**	ug/L	100	5.0	1	12/15/12 12:00	12/19/12 22:37	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	12/15/12 12:00	12/19/12 22:37	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	12/15/12 12:00	12/19/12 22:37	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 22:37	7440-47-3	
Cobalt	**115**	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 22:37	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 22:37	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 22:37	7439-92-1	
Nickel	**5.4J**	ug/L	50.0	5.0	1	12/15/12 12:00	12/19/12 22:37	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	12/15/12 12:00	12/19/12 22:37	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 22:37	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	12/15/12 12:00	12/19/12 22:37	7440-28-0	
Tin	ND	ug/L	100	5.0	1	12/15/12 12:00	12/19/12 22:37	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	12/15/12 12:00	12/19/12 22:37	7440-62-2	
Zinc	**12.1**	ug/L	10.0	10.0	1	12/15/12 12:00	12/19/12 22:37	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470		Preparation Method: EPA 7470						
Mercury	**0.17J**	ug/L	0.20	0.10	1	12/17/12 17:40	12/20/12 12:37	7439-97-6	M1
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		12/19/12 16:46	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		12/19/12 16:46	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		12/19/12 16:46	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		12/19/12 16:46	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		12/19/12 16:46	107-05-1	
Benzene	**1.6**	ug/L	1.0	0.25	1		12/19/12 16:46	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		12/19/12 16:46	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		12/19/12 16:46	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		12/19/12 16:46	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		12/19/12 16:46	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		12/19/12 16:46	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		12/19/12 16:46	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		12/19/12 16:46	56-23-5	
Chlorobenzene	**1.3J**	ug/L	3.0	0.23	1		12/19/12 16:46	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		12/19/12 16:46	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		12/19/12 16:46	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/19/12 16:46	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		12/19/12 16:46	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		12/19/12 16:46	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		12/19/12 16:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		12/19/12 16:46	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		12/19/12 16:46	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		12/19/12 16:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		12/19/12 16:46	541-73-1	
1,4-Dichlorobenzene	**4.4**	ug/L	1.0	0.33	1		12/19/12 16:46	106-46-7	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-4R **Lab ID: 92141862001** Collected: 12/11/12 11:50 Received: 12/13/12 14:55 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		12/19/12 16:46	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		12/19/12 16:46	75-71-8	
1,1-Dichloroethane	**3.7J**	ug/L	5.0	0.32	1		12/19/12 16:46	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		12/19/12 16:46	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		12/19/12 16:46	75-35-4	
cis-1,2-Dichloroethene	**15.3**	ug/L	5.0	0.19	1		12/19/12 16:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		12/19/12 16:46	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		12/19/12 16:46	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		12/19/12 16:46	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		12/19/12 16:46	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		12/19/12 16:46	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		12/19/12 16:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		12/19/12 16:46	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/19/12 16:46	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		12/19/12 16:46	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		12/19/12 16:46	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		12/19/12 16:46	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		12/19/12 16:46	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		12/19/12 16:46	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		12/19/12 16:46	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		12/19/12 16:46	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		12/19/12 16:46	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		12/19/12 16:46	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		12/19/12 16:46	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		12/19/12 16:46	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		12/19/12 16:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		12/19/12 16:46	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		12/19/12 16:46	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		12/19/12 16:46	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		12/19/12 16:46	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		12/19/12 16:46	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		12/19/12 16:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		12/19/12 16:46	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		12/19/12 16:46	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		12/19/12 16:46	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		12/19/12 16:46	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		12/19/12 16:46	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		12/19/12 16:46	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		12/19/12 16:46	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		12/19/12 16:46	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		12/19/12 16:46	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		12/19/12 16:46	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		12/19/12 16:46	2037-26-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-4R **Lab ID: 92141862001** Collected: 12/11/12 11:50 Received: 12/13/12 14:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		12/18/12 15:10	18496-25-8	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-9 **Lab ID: 92141862002** Collected: 12/11/12 14:50 Received: 12/13/12 14:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010		Preparation Method: EPA 3010						
Antimony	ND	ug/L	6.0	5.0	1	12/15/12 12:00	12/19/12 22:56	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 22:56	7440-38-2	
Barium	**127**	ug/L	100	5.0	1	12/15/12 12:00	12/19/12 22:56	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	12/15/12 12:00	12/19/12 22:56	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	12/15/12 12:00	12/19/12 22:56	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 22:56	7440-47-3	
Cobalt	**130**	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 22:56	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 22:56	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 22:56	7439-92-1	
Nickel	**42.9J**	ug/L	50.0	5.0	1	12/15/12 12:00	12/19/12 22:56	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	12/15/12 12:00	12/19/12 22:56	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 22:56	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	12/15/12 12:00	12/19/12 22:56	7440-28-0	
Tin	ND	ug/L	100	5.0	1	12/15/12 12:00	12/19/12 22:56	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	12/15/12 12:00	12/19/12 22:56	7440-62-2	
Zinc	**13.3**	ug/L	10.0	10.0	1	12/15/12 12:00	12/19/12 22:56	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470		Preparation Method: EPA 7470						
Mercury	ND	ug/L	0.20	0.10	1	12/17/12 17:40	12/20/12 12:46	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		12/18/12 13:09	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		12/18/12 13:09	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		12/18/12 13:09	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		12/18/12 13:09	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		12/18/12 13:09	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		12/18/12 13:09	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		12/18/12 13:09	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		12/18/12 13:09	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		12/18/12 13:09	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		12/18/12 13:09	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		12/18/12 13:09	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		12/18/12 13:09	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		12/18/12 13:09	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		12/18/12 13:09	108-90-7	
Chloroethane	**0.73J**	ug/L	10.0	0.54	1		12/18/12 13:09	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		12/18/12 13:09	67-66-3	
Chloromethane	**0.20J**	ug/L	1.0	0.11	1		12/18/12 13:09	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		12/18/12 13:09	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		12/18/12 13:09	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		12/18/12 13:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		12/18/12 13:09	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		12/18/12 13:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		12/18/12 13:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		12/18/12 13:09	541-73-1	
1,4-Dichlorobenzene	**0.39J**	ug/L	1.0	0.33	1		12/18/12 13:09	106-46-7	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-9 **Lab ID: 92141862002** Collected: 12/11/12 14:50 Received: 12/13/12 14:55 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		12/18/12 13:09	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		12/18/12 13:09	75-71-8	
1,1-Dichloroethane	**1.0J**	ug/L	5.0	0.32	1		12/18/12 13:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		12/18/12 13:09	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		12/18/12 13:09	75-35-4	
cis-1,2-Dichloroethene	**12.1**	ug/L	5.0	0.19	1		12/18/12 13:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		12/18/12 13:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		12/18/12 13:09	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		12/18/12 13:09	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		12/18/12 13:09	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		12/18/12 13:09	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		12/18/12 13:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		12/18/12 13:09	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/18/12 13:09	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		12/18/12 13:09	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		12/18/12 13:09	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		12/18/12 13:09	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		12/18/12 13:09	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		12/18/12 13:09	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		12/18/12 13:09	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		12/18/12 13:09	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		12/18/12 13:09	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		12/18/12 13:09	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		12/18/12 13:09	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		12/18/12 13:09	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		12/18/12 13:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		12/18/12 13:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		12/18/12 13:09	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		12/18/12 13:09	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		12/18/12 13:09	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		12/18/12 13:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		12/18/12 13:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		12/18/12 13:09	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		12/18/12 13:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		12/18/12 13:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		12/18/12 13:09	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		12/18/12 13:09	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		12/18/12 13:09	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		12/18/12 13:09	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	78	%	70-130		1		12/18/12 13:09	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		12/18/12 13:09	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		12/18/12 13:09	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		12/18/12 13:09	2037-26-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-9 **Lab ID: 92141862002** Collected: 12/11/12 14:50 Received: 12/13/12 14:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		12/18/12 15:10	18496-25-8	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-10 **Lab ID: 92141862003** Collected: 12/11/12 13:05 Received: 12/13/12 14:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010		Preparation Method: EPA 3010						
Antimony	ND	ug/L	6.0	5.0	1	12/15/12 12:00	12/19/12 23:00	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:00	7440-38-2	
Barium	**13.0J**	ug/L	100	5.0	1	12/15/12 12:00	12/19/12 23:00	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	12/15/12 12:00	12/19/12 23:00	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	12/15/12 12:00	12/19/12 23:00	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:00	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:00	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:00	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:00	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	12/15/12 12:00	12/19/12 23:00	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	12/15/12 12:00	12/19/12 23:00	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:00	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	12/15/12 12:00	12/19/12 23:00	7440-28-0	
Tin	ND	ug/L	100	5.0	1	12/15/12 12:00	12/19/12 23:00	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	12/15/12 12:00	12/19/12 23:00	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	12/15/12 12:00	12/19/12 23:00	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470		Preparation Method: EPA 7470						
Mercury	ND	ug/L	0.20	0.10	1	12/17/12 17:40	12/20/12 12:49	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		12/18/12 13:28	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		12/18/12 13:28	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		12/18/12 13:28	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		12/18/12 13:28	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		12/18/12 13:28	107-05-1	
Benzene	**0.85J**	ug/L	1.0	0.25	1		12/18/12 13:28	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		12/18/12 13:28	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		12/18/12 13:28	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		12/18/12 13:28	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		12/18/12 13:28	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		12/18/12 13:28	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		12/18/12 13:28	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		12/18/12 13:28	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		12/18/12 13:28	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		12/18/12 13:28	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		12/18/12 13:28	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/18/12 13:28	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		12/18/12 13:28	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		12/18/12 13:28	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		12/18/12 13:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		12/18/12 13:28	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		12/18/12 13:28	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		12/18/12 13:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		12/18/12 13:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		12/18/12 13:28	106-46-7	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-10 **Lab ID: 92141862003** Collected: 12/11/12 13:05 Received: 12/13/12 14:55 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		12/18/12 13:28	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		12/18/12 13:28	75-71-8	
1,1-Dichloroethane	**0.43J**	ug/L	5.0	0.32	1		12/18/12 13:28	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		12/18/12 13:28	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		12/18/12 13:28	75-35-4	
cis-1,2-Dichloroethene	**3.8J**	ug/L	5.0	0.19	1		12/18/12 13:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		12/18/12 13:28	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		12/18/12 13:28	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		12/18/12 13:28	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		12/18/12 13:28	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		12/18/12 13:28	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		12/18/12 13:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		12/18/12 13:28	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/18/12 13:28	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		12/18/12 13:28	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		12/18/12 13:28	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		12/18/12 13:28	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		12/18/12 13:28	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		12/18/12 13:28	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		12/18/12 13:28	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		12/18/12 13:28	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		12/18/12 13:28	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		12/18/12 13:28	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		12/18/12 13:28	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		12/18/12 13:28	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		12/18/12 13:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		12/18/12 13:28	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		12/18/12 13:28	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		12/18/12 13:28	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		12/18/12 13:28	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		12/18/12 13:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		12/18/12 13:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		12/18/12 13:28	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		12/18/12 13:28	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		12/18/12 13:28	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		12/18/12 13:28	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		12/18/12 13:28	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		12/18/12 13:28	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		12/18/12 13:28	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	80	%	70-130		1		12/18/12 13:28	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		12/18/12 13:28	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		12/18/12 13:28	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		12/18/12 13:28	2037-26-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-10 **Lab ID: 92141862003** Collected: 12/11/12 13:05 Received: 12/13/12 14:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		12/18/12 15:10	18496-25-8	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-13 **Lab ID: 92141862004** Collected: 12/11/12 08:40 Received: 12/13/12 14:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	12/15/12 12:00	12/19/12 23:04	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:04	7440-38-2	
Barium	**21.1J**	ug/L	100	5.0	1	12/15/12 12:00	12/19/12 23:04	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	12/15/12 12:00	12/19/12 23:04	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	12/15/12 12:00	12/19/12 23:04	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:04	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:04	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:04	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:04	7439-92-1	
Nickel	**5.1J**	ug/L	50.0	5.0	1	12/15/12 12:00	12/19/12 23:04	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	12/15/12 12:00	12/19/12 23:04	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:04	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	12/15/12 12:00	12/19/12 23:04	7440-28-0	
Tin	ND	ug/L	100	5.0	1	12/15/12 12:00	12/19/12 23:04	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	12/15/12 12:00	12/19/12 23:04	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	12/15/12 12:00	12/19/12 23:04	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	12/17/12 17:40	12/20/12 12:52	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		12/18/12 13:46	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		12/18/12 13:46	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		12/18/12 13:46	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		12/18/12 13:46	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		12/18/12 13:46	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		12/18/12 13:46	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		12/18/12 13:46	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		12/18/12 13:46	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		12/18/12 13:46	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		12/18/12 13:46	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		12/18/12 13:46	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		12/18/12 13:46	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		12/18/12 13:46	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		12/18/12 13:46	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		12/18/12 13:46	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		12/18/12 13:46	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/18/12 13:46	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		12/18/12 13:46	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		12/18/12 13:46	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		12/18/12 13:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		12/18/12 13:46	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		12/18/12 13:46	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		12/18/12 13:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		12/18/12 13:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		12/18/12 13:46	106-46-7	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-13 **Lab ID: 92141862004** Collected: 12/11/12 08:40 Received: 12/13/12 14:55 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		12/18/12 13:46	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		12/18/12 13:46	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		12/18/12 13:46	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		12/18/12 13:46	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		12/18/12 13:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		12/18/12 13:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		12/18/12 13:46	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		12/18/12 13:46	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		12/18/12 13:46	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		12/18/12 13:46	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		12/18/12 13:46	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		12/18/12 13:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		12/18/12 13:46	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/18/12 13:46	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		12/18/12 13:46	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		12/18/12 13:46	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		12/18/12 13:46	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		12/18/12 13:46	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		12/18/12 13:46	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		12/18/12 13:46	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		12/18/12 13:46	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		12/18/12 13:46	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		12/18/12 13:46	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		12/18/12 13:46	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		12/18/12 13:46	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		12/18/12 13:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		12/18/12 13:46	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		12/18/12 13:46	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		12/18/12 13:46	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		12/18/12 13:46	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		12/18/12 13:46	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		12/18/12 13:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		12/18/12 13:46	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		12/18/12 13:46	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		12/18/12 13:46	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		12/18/12 13:46	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		12/18/12 13:46	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		12/18/12 13:46	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		12/18/12 13:46	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	77	%	70-130		1		12/18/12 13:46	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		12/18/12 13:46	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		12/18/12 13:46	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		12/18/12 13:46	2037-26-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-13 **Lab ID: 92141862004** Collected: 12/11/12 08:40 Received: 12/13/12 14:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		12/18/12 15:10	18496-25-8	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-14 **Lab ID: 92141862005** Collected: 12/11/12 15:35 Received: 12/13/12 14:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010		Preparation Method: EPA 3010						
Antimony	ND	ug/L	6.0	5.0	1	12/15/12 12:00	12/19/12 23:07	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:07	7440-38-2	
Barium	**24.6J**	ug/L	100	5.0	1	12/15/12 12:00	12/19/12 23:07	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	12/15/12 12:00	12/19/12 23:07	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	12/15/12 12:00	12/19/12 23:07	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:07	7440-47-3	
Cobalt	**28.7**	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:07	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:07	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:07	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	12/15/12 12:00	12/19/12 23:07	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	12/15/12 12:00	12/19/12 23:07	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:07	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	12/15/12 12:00	12/19/12 23:07	7440-28-0	
Tin	ND	ug/L	100	5.0	1	12/15/12 12:00	12/19/12 23:07	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	12/15/12 12:00	12/19/12 23:07	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	12/15/12 12:00	12/19/12 23:07	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470		Preparation Method: EPA 7470						
Mercury	ND	ug/L	0.20	0.10	1	12/17/12 17:40	12/20/12 12:54	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	**10.3J**	ug/L	100	10.0	1		12/18/12 14:05	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		12/18/12 14:05	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		12/18/12 14:05	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		12/18/12 14:05	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		12/18/12 14:05	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		12/18/12 14:05	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		12/18/12 14:05	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		12/18/12 14:05	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		12/18/12 14:05	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		12/18/12 14:05	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		12/18/12 14:05	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		12/18/12 14:05	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		12/18/12 14:05	56-23-5	
Chlorobenzene	**0.96J**	ug/L	3.0	0.23	1		12/18/12 14:05	108-90-7	
Chloroethane	**1.4J**	ug/L	10.0	0.54	1		12/18/12 14:05	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		12/18/12 14:05	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/18/12 14:05	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		12/18/12 14:05	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		12/18/12 14:05	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		12/18/12 14:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		12/18/12 14:05	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		12/18/12 14:05	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		12/18/12 14:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		12/18/12 14:05	541-73-1	
1,4-Dichlorobenzene	**3.3**	ug/L	1.0	0.33	1		12/18/12 14:05	106-46-7	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-14 **Lab ID: 92141862005** Collected: 12/11/12 15:35 Received: 12/13/12 14:55 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		12/18/12 14:05	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		12/18/12 14:05	75-71-8	
1,1-Dichloroethane	**0.63J**	ug/L	5.0	0.32	1		12/18/12 14:05	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		12/18/12 14:05	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		12/18/12 14:05	75-35-4	
cis-1,2-Dichloroethene	**10.8**	ug/L	5.0	0.19	1		12/18/12 14:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		12/18/12 14:05	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		12/18/12 14:05	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		12/18/12 14:05	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		12/18/12 14:05	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		12/18/12 14:05	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		12/18/12 14:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		12/18/12 14:05	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/18/12 14:05	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		12/18/12 14:05	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		12/18/12 14:05	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		12/18/12 14:05	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		12/18/12 14:05	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		12/18/12 14:05	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		12/18/12 14:05	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		12/18/12 14:05	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		12/18/12 14:05	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		12/18/12 14:05	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		12/18/12 14:05	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		12/18/12 14:05	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		12/18/12 14:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		12/18/12 14:05	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		12/18/12 14:05	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		12/18/12 14:05	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		12/18/12 14:05	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		12/18/12 14:05	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		12/18/12 14:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		12/18/12 14:05	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		12/18/12 14:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		12/18/12 14:05	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		12/18/12 14:05	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		12/18/12 14:05	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		12/18/12 14:05	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		12/18/12 14:05	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	80	%	70-130		1		12/18/12 14:05	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		12/18/12 14:05	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		12/18/12 14:05	17060-07-0	
Toluene-d8 (S)	107	%	70-130		1		12/18/12 14:05	2037-26-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-14 **Lab ID: 92141862005** Collected: 12/11/12 15:35 Received: 12/13/12 14:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		12/18/12 15:10	18496-25-8	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-15 **Lab ID: 92141862006** Collected: 12/11/12 14:00 Received: 12/13/12 14:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010		Preparation Method: EPA 3010						
Antimony	ND	ug/L	6.0	5.0	1	12/15/12 12:00	12/19/12 23:10	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:10	7440-38-2	
Barium	**30.7J**	ug/L	100	5.0	1	12/15/12 12:00	12/19/12 23:10	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	12/15/12 12:00	12/19/12 23:10	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	12/15/12 12:00	12/19/12 23:10	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:10	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:10	7440-48-4	
Copper	**5.8J**	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:10	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:10	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	12/15/12 12:00	12/19/12 23:10	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	12/15/12 12:00	12/19/12 23:10	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:10	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	12/15/12 12:00	12/19/12 23:10	7440-28-0	
Tin	ND	ug/L	100	5.0	1	12/15/12 12:00	12/19/12 23:10	7440-31-5	
Vanadium	**5.7J**	ug/L	25.0	5.0	1	12/15/12 12:00	12/19/12 23:10	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	12/15/12 12:00	12/19/12 23:10	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470		Preparation Method: EPA 7470						
Mercury	**0.50**	ug/L	0.20	0.10	1	12/17/12 17:40	12/20/12 12:57	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		12/18/12 14:23	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		12/18/12 14:23	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		12/18/12 14:23	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		12/18/12 14:23	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		12/18/12 14:23	107-05-1	
Benzene	**2.5**	ug/L	1.0	0.25	1		12/18/12 14:23	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		12/18/12 14:23	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		12/18/12 14:23	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		12/18/12 14:23	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		12/18/12 14:23	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		12/18/12 14:23	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		12/18/12 14:23	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		12/18/12 14:23	56-23-5	
Chlorobenzene	**0.51J**	ug/L	3.0	0.23	1		12/18/12 14:23	108-90-7	
Chloroethane	**1.2J**	ug/L	10.0	0.54	1		12/18/12 14:23	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		12/18/12 14:23	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/18/12 14:23	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		12/18/12 14:23	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		12/18/12 14:23	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		12/18/12 14:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		12/18/12 14:23	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		12/18/12 14:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		12/18/12 14:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		12/18/12 14:23	541-73-1	
1,4-Dichlorobenzene	**0.45J**	ug/L	1.0	0.33	1		12/18/12 14:23	106-46-7	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-15 **Lab ID: 92141862006** Collected: 12/11/12 14:00 Received: 12/13/12 14:55 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		12/18/12 14:23	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		12/18/12 14:23	75-71-8	
1,1-Dichloroethane	**1.7J**	ug/L	5.0	0.32	1		12/18/12 14:23	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		12/18/12 14:23	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		12/18/12 14:23	75-35-4	
cis-1,2-Dichloroethene	**8.4**	ug/L	5.0	0.19	1		12/18/12 14:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		12/18/12 14:23	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		12/18/12 14:23	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		12/18/12 14:23	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		12/18/12 14:23	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		12/18/12 14:23	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		12/18/12 14:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		12/18/12 14:23	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/18/12 14:23	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		12/18/12 14:23	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		12/18/12 14:23	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		12/18/12 14:23	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		12/18/12 14:23	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		12/18/12 14:23	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		12/18/12 14:23	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		12/18/12 14:23	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		12/18/12 14:23	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		12/18/12 14:23	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		12/18/12 14:23	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		12/18/12 14:23	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		12/18/12 14:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		12/18/12 14:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		12/18/12 14:23	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		12/18/12 14:23	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		12/18/12 14:23	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		12/18/12 14:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		12/18/12 14:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		12/18/12 14:23	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		12/18/12 14:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		12/18/12 14:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		12/18/12 14:23	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		12/18/12 14:23	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		12/18/12 14:23	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		12/18/12 14:23	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	77	%	70-130		1		12/18/12 14:23	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		12/18/12 14:23	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		12/18/12 14:23	17060-07-0	
Toluene-d8 (S)	109	%	70-130		1		12/18/12 14:23	2037-26-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-15 **Lab ID: 92141862006** Collected: 12/11/12 14:00 Received: 12/13/12 14:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		12/18/12 15:10	18496-25-8	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-17 **Lab ID: 92141862007** Collected: 12/10/12 15:25 Received: 12/13/12 14:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010		Preparation Method: EPA 3010						
Antimony	ND	ug/L	6.0	5.0	1	12/15/12 12:00	12/19/12 23:14	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:14	7440-38-2	
Barium	**66.6J**	ug/L	100	5.0	1	12/15/12 12:00	12/19/12 23:14	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	12/15/12 12:00	12/19/12 23:14	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	12/15/12 12:00	12/19/12 23:14	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:14	7440-47-3	
Cobalt	**44.9**	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:14	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:14	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:14	7439-92-1	
Nickel	**6.2J**	ug/L	50.0	5.0	1	12/15/12 12:00	12/19/12 23:14	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	12/15/12 12:00	12/19/12 23:14	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:14	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	12/15/12 12:00	12/19/12 23:14	7440-28-0	
Tin	ND	ug/L	100	5.0	1	12/15/12 12:00	12/19/12 23:14	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	12/15/12 12:00	12/19/12 23:14	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	12/15/12 12:00	12/19/12 23:14	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470		Preparation Method: EPA 7470						
Mercury	**0.21**	ug/L	0.20	0.10	1	12/17/12 17:40	12/20/12 13:05	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		12/18/12 14:42	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		12/18/12 14:42	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		12/18/12 14:42	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		12/18/12 14:42	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		12/18/12 14:42	107-05-1	
Benzene	**0.84J**	ug/L	1.0	0.25	1		12/18/12 14:42	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		12/18/12 14:42	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		12/18/12 14:42	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		12/18/12 14:42	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		12/18/12 14:42	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		12/18/12 14:42	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		12/18/12 14:42	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		12/18/12 14:42	56-23-5	
Chlorobenzene	**0.33J**	ug/L	3.0	0.23	1		12/18/12 14:42	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		12/18/12 14:42	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		12/18/12 14:42	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/18/12 14:42	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		12/18/12 14:42	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		12/18/12 14:42	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		12/18/12 14:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		12/18/12 14:42	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		12/18/12 14:42	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		12/18/12 14:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		12/18/12 14:42	541-73-1	
1,4-Dichlorobenzene	**0.47J**	ug/L	1.0	0.33	1		12/18/12 14:42	106-46-7	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-17 **Lab ID: 92141862007** Collected: 12/10/12 15:25 Received: 12/13/12 14:55 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		12/18/12 14:42	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		12/18/12 14:42	75-71-8	
1,1-Dichloroethane	**1.3J**	ug/L	5.0	0.32	1		12/18/12 14:42	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		12/18/12 14:42	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		12/18/12 14:42	75-35-4	
cis-1,2-Dichloroethene	**1.9J**	ug/L	5.0	0.19	1		12/18/12 14:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		12/18/12 14:42	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		12/18/12 14:42	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		12/18/12 14:42	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		12/18/12 14:42	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		12/18/12 14:42	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		12/18/12 14:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		12/18/12 14:42	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/18/12 14:42	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		12/18/12 14:42	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		12/18/12 14:42	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		12/18/12 14:42	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		12/18/12 14:42	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		12/18/12 14:42	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		12/18/12 14:42	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		12/18/12 14:42	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		12/18/12 14:42	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		12/18/12 14:42	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		12/18/12 14:42	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		12/18/12 14:42	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		12/18/12 14:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		12/18/12 14:42	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		12/18/12 14:42	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		12/18/12 14:42	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		12/18/12 14:42	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		12/18/12 14:42	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		12/18/12 14:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		12/18/12 14:42	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		12/18/12 14:42	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		12/18/12 14:42	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		12/18/12 14:42	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		12/18/12 14:42	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		12/18/12 14:42	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		12/18/12 14:42	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	78	%	70-130		1		12/18/12 14:42	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		12/18/12 14:42	1868-53-7	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		12/18/12 14:42	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		12/18/12 14:42	2037-26-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-17 **Lab ID: 92141862007** Collected: 12/10/12 15:25 Received: 12/13/12 14:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		12/14/12 17:50	18496-25-8	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-19 **Lab ID: 92141862008** Collected: 12/11/12 16:05 Received: 12/13/12 14:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010		Preparation Method: EPA 3010						
Antimony	ND	ug/L	6.0	5.0	1	12/15/12 12:00	12/19/12 23:18	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:18	7440-38-2	
Barium	**19.2J**	ug/L	100	5.0	1	12/15/12 12:00	12/19/12 23:18	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	12/15/12 12:00	12/19/12 23:18	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	12/15/12 12:00	12/19/12 23:18	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:18	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:18	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:18	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:18	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	12/15/12 12:00	12/19/12 23:18	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	12/15/12 12:00	12/19/12 23:18	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:18	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	12/15/12 12:00	12/19/12 23:18	7440-28-0	
Tin	ND	ug/L	100	5.0	1	12/15/12 12:00	12/19/12 23:18	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	12/15/12 12:00	12/19/12 23:18	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	12/15/12 12:00	12/19/12 23:18	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470		Preparation Method: EPA 7470						
Mercury	ND	ug/L	0.20	0.10	1	12/17/12 17:40	12/20/12 13:08	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		12/18/12 15:00	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		12/18/12 15:00	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		12/18/12 15:00	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		12/18/12 15:00	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		12/18/12 15:00	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		12/18/12 15:00	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		12/18/12 15:00	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		12/18/12 15:00	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		12/18/12 15:00	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		12/18/12 15:00	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		12/18/12 15:00	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		12/18/12 15:00	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		12/18/12 15:00	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		12/18/12 15:00	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		12/18/12 15:00	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		12/18/12 15:00	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/18/12 15:00	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		12/18/12 15:00	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		12/18/12 15:00	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		12/18/12 15:00	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		12/18/12 15:00	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		12/18/12 15:00	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		12/18/12 15:00	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		12/18/12 15:00	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		12/18/12 15:00	106-46-7	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-19 **Lab ID: 92141862008** Collected: 12/11/12 16:05 Received: 12/13/12 14:55 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		12/18/12 15:00	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		12/18/12 15:00	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		12/18/12 15:00	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		12/18/12 15:00	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		12/18/12 15:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		12/18/12 15:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		12/18/12 15:00	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		12/18/12 15:00	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		12/18/12 15:00	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		12/18/12 15:00	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		12/18/12 15:00	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		12/18/12 15:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		12/18/12 15:00	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/18/12 15:00	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		12/18/12 15:00	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		12/18/12 15:00	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		12/18/12 15:00	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		12/18/12 15:00	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		12/18/12 15:00	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		12/18/12 15:00	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		12/18/12 15:00	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		12/18/12 15:00	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		12/18/12 15:00	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		12/18/12 15:00	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		12/18/12 15:00	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		12/18/12 15:00	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		12/18/12 15:00	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		12/18/12 15:00	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		12/18/12 15:00	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		12/18/12 15:00	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		12/18/12 15:00	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		12/18/12 15:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		12/18/12 15:00	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		12/18/12 15:00	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		12/18/12 15:00	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		12/18/12 15:00	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		12/18/12 15:00	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		12/18/12 15:00	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		12/18/12 15:00	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	77	%	70-130		1		12/18/12 15:00	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		12/18/12 15:00	1868-53-7	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		12/18/12 15:00	17060-07-0	
Toluene-d8 (S)	108	%	70-130		1		12/18/12 15:00	2037-26-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-19 **Lab ID: 92141862008** Collected: 12/11/12 16:05 Received: 12/13/12 14:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		12/18/12 15:10	18496-25-8	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-20 **Lab ID: 92141862009** Collected: 12/11/12 16:40 Received: 12/13/12 14:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	12/15/12 12:00	12/19/12 23:21	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:21	7440-38-2	
Barium	**40.4J**	ug/L	100	5.0	1	12/15/12 12:00	12/19/12 23:21	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	12/15/12 12:00	12/19/12 23:21	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	12/15/12 12:00	12/19/12 23:21	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:21	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:21	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:21	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:21	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	12/15/12 12:00	12/19/12 23:21	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	12/15/12 12:00	12/19/12 23:21	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:21	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	12/15/12 12:00	12/19/12 23:21	7440-28-0	
Tin	ND	ug/L	100	5.0	1	12/15/12 12:00	12/19/12 23:21	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	12/15/12 12:00	12/19/12 23:21	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	12/15/12 12:00	12/19/12 23:21	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	12/17/12 17:40	12/20/12 13:10	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		12/18/12 15:18	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		12/18/12 15:18	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		12/18/12 15:18	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		12/18/12 15:18	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		12/18/12 15:18	107-05-1	
Benzene	**0.66J**	ug/L	1.0	0.25	1		12/18/12 15:18	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		12/18/12 15:18	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		12/18/12 15:18	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		12/18/12 15:18	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		12/18/12 15:18	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		12/18/12 15:18	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		12/18/12 15:18	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		12/18/12 15:18	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		12/18/12 15:18	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		12/18/12 15:18	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		12/18/12 15:18	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/18/12 15:18	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		12/18/12 15:18	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		12/18/12 15:18	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		12/18/12 15:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		12/18/12 15:18	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		12/18/12 15:18	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		12/18/12 15:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		12/18/12 15:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		12/18/12 15:18	106-46-7	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-20 **Lab ID: 92141862009** Collected: 12/11/12 16:40 Received: 12/13/12 14:55 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		12/18/12 15:18	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		12/18/12 15:18	75-71-8	
1,1-Dichloroethane	**1.1J**	ug/L	5.0	0.32	1		12/18/12 15:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		12/18/12 15:18	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		12/18/12 15:18	75-35-4	
cis-1,2-Dichloroethene	**0.96J**	ug/L	5.0	0.19	1		12/18/12 15:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		12/18/12 15:18	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		12/18/12 15:18	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		12/18/12 15:18	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		12/18/12 15:18	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		12/18/12 15:18	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		12/18/12 15:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		12/18/12 15:18	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/18/12 15:18	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		12/18/12 15:18	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		12/18/12 15:18	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		12/18/12 15:18	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		12/18/12 15:18	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		12/18/12 15:18	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		12/18/12 15:18	126-98-7	
Methylene Chloride	**1.3**	ug/L	1.0	0.97	1		12/18/12 15:18	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		12/18/12 15:18	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		12/18/12 15:18	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		12/18/12 15:18	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		12/18/12 15:18	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		12/18/12 15:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		12/18/12 15:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		12/18/12 15:18	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		12/18/12 15:18	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		12/18/12 15:18	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		12/18/12 15:18	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		12/18/12 15:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		12/18/12 15:18	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		12/18/12 15:18	79-01-6	
Trichlorofluoromethane	**0.23J**	ug/L	1.0	0.20	1		12/18/12 15:18	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		12/18/12 15:18	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		12/18/12 15:18	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		12/18/12 15:18	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		12/18/12 15:18	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	77	%	70-130		1		12/18/12 15:18	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		12/18/12 15:18	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		12/18/12 15:18	17060-07-0	
Toluene-d8 (S)	111	%	70-130		1		12/18/12 15:18	2037-26-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-20 **Lab ID: 92141862009** Collected: 12/11/12 16:40 Received: 12/13/12 14:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		12/18/12 15:10	18496-25-8	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-21 **Lab ID: 92141862010** Collected: 12/10/12 14:45 Received: 12/13/12 14:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	12/15/12 12:00	12/19/12 23:24	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:24	7440-38-2	
Barium	**100**	ug/L	100	5.0	1	12/15/12 12:00	12/19/12 23:24	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	12/15/12 12:00	12/19/12 23:24	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	12/15/12 12:00	12/19/12 23:24	7440-43-9	
Chromium	**6.4J**	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:24	7440-47-3	
Cobalt	**8.0J**	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:24	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:24	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:24	7439-92-1	
Nickel	**12.1J**	ug/L	50.0	5.0	1	12/15/12 12:00	12/19/12 23:24	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	12/15/12 12:00	12/19/12 23:24	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:24	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	12/15/12 12:00	12/19/12 23:24	7440-28-0	
Tin	ND	ug/L	100	5.0	1	12/15/12 12:00	12/19/12 23:24	7440-31-5	
Vanadium	**6.5J**	ug/L	25.0	5.0	1	12/15/12 12:00	12/19/12 23:24	7440-62-2	
Zinc	**14.5**	ug/L	10.0	10.0	1	12/15/12 12:00	12/19/12 23:24	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.25**	ug/L	0.20	0.10	1	12/17/12 17:40	12/20/12 13:13	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		12/18/12 15:37	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		12/18/12 15:37	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		12/18/12 15:37	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		12/18/12 15:37	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		12/18/12 15:37	107-05-1	
Benzene	**1.9**	ug/L	1.0	0.25	1		12/18/12 15:37	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		12/18/12 15:37	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		12/18/12 15:37	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		12/18/12 15:37	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		12/18/12 15:37	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		12/18/12 15:37	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		12/18/12 15:37	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		12/18/12 15:37	56-23-5	
Chlorobenzene	**0.24J**	ug/L	3.0	0.23	1		12/18/12 15:37	108-90-7	
Chloroethane	**1.1J**	ug/L	10.0	0.54	1		12/18/12 15:37	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		12/18/12 15:37	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/18/12 15:37	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		12/18/12 15:37	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		12/18/12 15:37	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		12/18/12 15:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		12/18/12 15:37	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		12/18/12 15:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		12/18/12 15:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		12/18/12 15:37	541-73-1	
1,4-Dichlorobenzene	**0.80J**	ug/L	1.0	0.33	1		12/18/12 15:37	106-46-7	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-21 **Lab ID: 92141862010** Collected: 12/10/12 14:45 Received: 12/13/12 14:55 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		12/18/12 15:37	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		12/18/12 15:37	75-71-8	
1,1-Dichloroethane	**1.9J**	ug/L	5.0	0.32	1		12/18/12 15:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		12/18/12 15:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		12/18/12 15:37	75-35-4	
cis-1,2-Dichloroethene	**5.2**	ug/L	5.0	0.19	1		12/18/12 15:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		12/18/12 15:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		12/18/12 15:37	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		12/18/12 15:37	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		12/18/12 15:37	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		12/18/12 15:37	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		12/18/12 15:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		12/18/12 15:37	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/18/12 15:37	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		12/18/12 15:37	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		12/18/12 15:37	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		12/18/12 15:37	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		12/18/12 15:37	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		12/18/12 15:37	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		12/18/12 15:37	126-98-7	
Methylene Chloride	**1.0**	ug/L	1.0	0.97	1		12/18/12 15:37	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		12/18/12 15:37	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		12/18/12 15:37	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		12/18/12 15:37	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		12/18/12 15:37	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		12/18/12 15:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		12/18/12 15:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		12/18/12 15:37	79-34-5	
Tetrachloroethene	**0.48J**	ug/L	1.0	0.46	1		12/18/12 15:37	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		12/18/12 15:37	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		12/18/12 15:37	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		12/18/12 15:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		12/18/12 15:37	79-00-5	
Trichloroethene	**0.84J**	ug/L	1.0	0.47	1		12/18/12 15:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		12/18/12 15:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		12/18/12 15:37	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		12/18/12 15:37	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		12/18/12 15:37	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		12/18/12 15:37	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	77	%	70-130		1		12/18/12 15:37	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		12/18/12 15:37	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		12/18/12 15:37	17060-07-0	
Toluene-d8 (S)	112	%	70-130		1		12/18/12 15:37	2037-26-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-21 **Lab ID: 92141862010** Collected: 12/10/12 14:45 Received: 12/13/12 14:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		12/15/12 15:30	18496-25-8	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-22 **Lab ID: 92141862011** Collected: 12/10/12 14:05 Received: 12/13/12 14:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	12/15/12 12:00	12/19/12 23:38	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:38	7440-38-2	
Barium	**63.2J**	ug/L	100	5.0	1	12/15/12 12:00	12/19/12 23:38	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	12/15/12 12:00	12/19/12 23:38	7440-41-7	
Cadmium	**2.8**	ug/L	1.0	1.0	1	12/15/12 12:00	12/19/12 23:38	7440-43-9	
Chromium	**5.3J**	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:38	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:38	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:38	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:38	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	12/15/12 12:00	12/19/12 23:38	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	12/15/12 12:00	12/19/12 23:38	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:38	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	12/15/12 12:00	12/19/12 23:38	7440-28-0	
Tin	ND	ug/L	100	5.0	1	12/15/12 12:00	12/19/12 23:38	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	12/15/12 12:00	12/19/12 23:38	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	12/15/12 12:00	12/19/12 23:38	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	12/17/12 17:40	12/20/12 13:16	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		12/19/12 17:04	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		12/19/12 17:04	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		12/19/12 17:04	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		12/19/12 17:04	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		12/19/12 17:04	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		12/19/12 17:04	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		12/19/12 17:04	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		12/19/12 17:04	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		12/19/12 17:04	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		12/19/12 17:04	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		12/19/12 17:04	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		12/19/12 17:04	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		12/19/12 17:04	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		12/19/12 17:04	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		12/19/12 17:04	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		12/19/12 17:04	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/19/12 17:04	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		12/19/12 17:04	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		12/19/12 17:04	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		12/19/12 17:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		12/19/12 17:04	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		12/19/12 17:04	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		12/19/12 17:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		12/19/12 17:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		12/19/12 17:04	106-46-7	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-22 **Lab ID: 92141862011** Collected: 12/10/12 14:05 Received: 12/13/12 14:55 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		12/19/12 17:04	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		12/19/12 17:04	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		12/19/12 17:04	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		12/19/12 17:04	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		12/19/12 17:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		12/19/12 17:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		12/19/12 17:04	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		12/19/12 17:04	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		12/19/12 17:04	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		12/19/12 17:04	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		12/19/12 17:04	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		12/19/12 17:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		12/19/12 17:04	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/19/12 17:04	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		12/19/12 17:04	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		12/19/12 17:04	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		12/19/12 17:04	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		12/19/12 17:04	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		12/19/12 17:04	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		12/19/12 17:04	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		12/19/12 17:04	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		12/19/12 17:04	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		12/19/12 17:04	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		12/19/12 17:04	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		12/19/12 17:04	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		12/19/12 17:04	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		12/19/12 17:04	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		12/19/12 17:04	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		12/19/12 17:04	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		12/19/12 17:04	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		12/19/12 17:04	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		12/19/12 17:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		12/19/12 17:04	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		12/19/12 17:04	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		12/19/12 17:04	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		12/19/12 17:04	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		12/19/12 17:04	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		12/19/12 17:04	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		12/19/12 17:04	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		12/19/12 17:04	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		12/19/12 17:04	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		12/19/12 17:04	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		12/19/12 17:04	2037-26-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-22 **Lab ID: 92141862011** Collected: 12/10/12 14:05 Received: 12/13/12 14:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		12/15/12 15:30	18496-25-8	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-23 **Lab ID: 92141862012** Collected: 12/10/12 13:00 Received: 12/13/12 14:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010		Preparation Method: EPA 3010						
Antimony	ND	ug/L	6.0	5.0	1	12/15/12 12:00	12/19/12 23:41	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:41	7440-38-2	
Barium	**54.7J**	ug/L	100	5.0	1	12/15/12 12:00	12/19/12 23:41	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	12/15/12 12:00	12/19/12 23:41	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	12/15/12 12:00	12/19/12 23:41	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:41	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:41	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:41	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:41	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	12/15/12 12:00	12/19/12 23:41	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	12/15/12 12:00	12/19/12 23:41	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:41	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	12/15/12 12:00	12/19/12 23:41	7440-28-0	
Tin	ND	ug/L	100	5.0	1	12/15/12 12:00	12/19/12 23:41	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	12/15/12 12:00	12/19/12 23:41	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	12/15/12 12:00	12/19/12 23:41	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470		Preparation Method: EPA 7470						
Mercury	ND	ug/L	0.20	0.10	1	12/17/12 17:40	12/20/12 13:18	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		12/19/12 17:23	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		12/19/12 17:23	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		12/19/12 17:23	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		12/19/12 17:23	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		12/19/12 17:23	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		12/19/12 17:23	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		12/19/12 17:23	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		12/19/12 17:23	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		12/19/12 17:23	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		12/19/12 17:23	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		12/19/12 17:23	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		12/19/12 17:23	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		12/19/12 17:23	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		12/19/12 17:23	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		12/19/12 17:23	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		12/19/12 17:23	67-66-3	
Chloromethane	**0.12J**	ug/L	1.0	0.11	1		12/19/12 17:23	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		12/19/12 17:23	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		12/19/12 17:23	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		12/19/12 17:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		12/19/12 17:23	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		12/19/12 17:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		12/19/12 17:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		12/19/12 17:23	541-73-1	
1,4-Dichlorobenzene	**0.41J**	ug/L	1.0	0.33	1		12/19/12 17:23	106-46-7	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-23 **Lab ID: 92141862012** Collected: 12/10/12 13:00 Received: 12/13/12 14:55 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		12/19/12 17:23	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		12/19/12 17:23	75-71-8	
1,1-Dichloroethane	**0.38J**	ug/L	5.0	0.32	1		12/19/12 17:23	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		12/19/12 17:23	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		12/19/12 17:23	75-35-4	
cis-1,2-Dichloroethene	**3.3J**	ug/L	5.0	0.19	1		12/19/12 17:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		12/19/12 17:23	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		12/19/12 17:23	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		12/19/12 17:23	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		12/19/12 17:23	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		12/19/12 17:23	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		12/19/12 17:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		12/19/12 17:23	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/19/12 17:23	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		12/19/12 17:23	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		12/19/12 17:23	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		12/19/12 17:23	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		12/19/12 17:23	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		12/19/12 17:23	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		12/19/12 17:23	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		12/19/12 17:23	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		12/19/12 17:23	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		12/19/12 17:23	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		12/19/12 17:23	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		12/19/12 17:23	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		12/19/12 17:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		12/19/12 17:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		12/19/12 17:23	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		12/19/12 17:23	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		12/19/12 17:23	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		12/19/12 17:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		12/19/12 17:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		12/19/12 17:23	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		12/19/12 17:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		12/19/12 17:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		12/19/12 17:23	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		12/19/12 17:23	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		12/19/12 17:23	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		12/19/12 17:23	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		12/19/12 17:23	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		12/19/12 17:23	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		12/19/12 17:23	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		12/19/12 17:23	2037-26-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-23 **Lab ID: 92141862012** Collected: 12/10/12 13:00 Received: 12/13/12 14:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		12/15/12 15:30	18496-25-8	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-32 **Lab ID: 92141862013** Collected: 12/11/12 10:05 Received: 12/13/12 14:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	12/15/12 12:00	12/19/12 23:45	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:45	7440-38-2	
Barium	**23.4J**	ug/L	100	5.0	1	12/15/12 12:00	12/19/12 23:45	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	12/15/12 12:00	12/19/12 23:45	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	12/15/12 12:00	12/19/12 23:45	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:45	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:45	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:45	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:45	7439-92-1	
Nickel	**12.9J**	ug/L	50.0	5.0	1	12/15/12 12:00	12/19/12 23:45	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	12/15/12 12:00	12/19/12 23:45	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:45	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	12/15/12 12:00	12/19/12 23:45	7440-28-0	
Tin	ND	ug/L	100	5.0	1	12/15/12 12:00	12/19/12 23:45	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	12/15/12 12:00	12/19/12 23:45	7440-62-2	
Zinc	**13.0**	ug/L	10.0	10.0	1	12/15/12 12:00	12/19/12 23:45	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	12/17/12 17:40	12/20/12 13:21	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		12/19/12 17:41	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		12/19/12 17:41	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		12/19/12 17:41	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		12/19/12 17:41	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		12/19/12 17:41	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		12/19/12 17:41	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		12/19/12 17:41	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		12/19/12 17:41	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		12/19/12 17:41	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		12/19/12 17:41	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		12/19/12 17:41	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		12/19/12 17:41	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		12/19/12 17:41	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		12/19/12 17:41	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		12/19/12 17:41	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		12/19/12 17:41	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/19/12 17:41	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		12/19/12 17:41	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		12/19/12 17:41	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		12/19/12 17:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		12/19/12 17:41	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		12/19/12 17:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		12/19/12 17:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		12/19/12 17:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		12/19/12 17:41	106-46-7	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-32 **Lab ID: 92141862013** Collected: 12/11/12 10:05 Received: 12/13/12 14:55 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		12/19/12 17:41	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		12/19/12 17:41	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		12/19/12 17:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		12/19/12 17:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		12/19/12 17:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		12/19/12 17:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		12/19/12 17:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		12/19/12 17:41	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		12/19/12 17:41	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		12/19/12 17:41	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		12/19/12 17:41	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		12/19/12 17:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		12/19/12 17:41	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/19/12 17:41	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		12/19/12 17:41	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		12/19/12 17:41	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		12/19/12 17:41	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		12/19/12 17:41	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		12/19/12 17:41	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		12/19/12 17:41	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		12/19/12 17:41	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		12/19/12 17:41	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		12/19/12 17:41	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		12/19/12 17:41	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		12/19/12 17:41	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		12/19/12 17:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		12/19/12 17:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		12/19/12 17:41	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		12/19/12 17:41	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		12/19/12 17:41	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		12/19/12 17:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		12/19/12 17:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		12/19/12 17:41	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		12/19/12 17:41	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		12/19/12 17:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		12/19/12 17:41	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		12/19/12 17:41	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		12/19/12 17:41	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		12/19/12 17:41	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		12/19/12 17:41	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		12/19/12 17:41	1868-53-7	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		12/19/12 17:41	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		12/19/12 17:41	2037-26-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-32 **Lab ID: 92141862013** Collected: 12/11/12 10:05 Received: 12/13/12 14:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		12/18/12 15:10	18496-25-8	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: SW-3 **Lab ID: 92141862014** Collected: 12/10/12 16:00 Received: 12/13/12 14:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	12/15/12 12:00	12/19/12 23:48	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:48	7440-38-2	
Barium	**28.8J**	ug/L	100	5.0	1	12/15/12 12:00	12/19/12 23:48	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	12/15/12 12:00	12/19/12 23:48	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	12/15/12 12:00	12/19/12 23:48	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:48	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:48	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:48	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:48	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	12/15/12 12:00	12/19/12 23:48	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	12/15/12 12:00	12/19/12 23:48	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:48	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	12/15/12 12:00	12/19/12 23:48	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	12/15/12 12:00	12/19/12 23:48	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	12/15/12 12:00	12/19/12 23:48	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		12/19/12 17:59	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		12/19/12 17:59	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		12/19/12 17:59	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		12/19/12 17:59	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		12/19/12 17:59	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		12/19/12 17:59	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		12/19/12 17:59	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		12/19/12 17:59	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		12/19/12 17:59	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		12/19/12 17:59	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		12/19/12 17:59	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		12/19/12 17:59	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		12/19/12 17:59	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/19/12 17:59	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		12/19/12 17:59	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		12/19/12 17:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		12/19/12 17:59	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		12/19/12 17:59	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		12/19/12 17:59	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		12/19/12 17:59	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		12/19/12 17:59	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		12/19/12 17:59	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		12/19/12 17:59	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		12/19/12 17:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		12/19/12 17:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		12/19/12 17:59	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		12/19/12 17:59	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		12/19/12 17:59	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		12/19/12 17:59	10061-01-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: SW-3 **Lab ID: 92141862014** Collected: 12/10/12 16:00 Received: 12/13/12 14:55 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		12/19/12 17:59	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/19/12 17:59	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		12/19/12 17:59	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		12/19/12 17:59	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		12/19/12 17:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		12/19/12 17:59	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		12/19/12 17:59	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		12/19/12 17:59	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		12/19/12 17:59	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		12/19/12 17:59	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		12/19/12 17:59	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		12/19/12 17:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		12/19/12 17:59	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		12/19/12 17:59	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		12/19/12 17:59	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		12/19/12 17:59	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		12/19/12 17:59	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		12/19/12 17:59	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		12/19/12 17:59	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		1		12/19/12 17:59	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		12/19/12 17:59	1868-53-7	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		12/19/12 17:59	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		12/19/12 17:59	2037-26-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: SW-4R **Lab ID: 92141862015** Collected: 12/10/12 13:10 Received: 12/13/12 14:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	12/15/12 12:00	12/19/12 23:52	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:52	7440-38-2	
Barium	**28.2J**	ug/L	100	5.0	1	12/15/12 12:00	12/19/12 23:52	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	12/15/12 12:00	12/19/12 23:52	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	12/15/12 12:00	12/19/12 23:52	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:52	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:52	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:52	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:52	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	12/15/12 12:00	12/19/12 23:52	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	12/15/12 12:00	12/19/12 23:52	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:52	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	12/15/12 12:00	12/19/12 23:52	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	12/15/12 12:00	12/19/12 23:52	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	12/15/12 12:00	12/19/12 23:52	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		12/21/12 17:19	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		12/21/12 17:19	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		12/21/12 17:19	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		12/21/12 17:19	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		12/21/12 17:19	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		12/21/12 17:19	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		12/21/12 17:19	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		12/21/12 17:19	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		12/21/12 17:19	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		12/21/12 17:19	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		12/21/12 17:19	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		12/21/12 17:19	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		12/21/12 17:19	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/21/12 17:19	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		12/21/12 17:19	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		12/21/12 17:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		12/21/12 17:19	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		12/21/12 17:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		12/21/12 17:19	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		12/21/12 17:19	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		12/21/12 17:19	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		12/21/12 17:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		12/21/12 17:19	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		12/21/12 17:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		12/21/12 17:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		12/21/12 17:19	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		12/21/12 17:19	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		12/21/12 17:19	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		12/21/12 17:19	10061-01-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: SW-4R **Lab ID: 92141862015** Collected: 12/10/12 13:10 Received: 12/13/12 14:55 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		12/21/12 17:19	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/21/12 17:19	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		12/21/12 17:19	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		12/21/12 17:19	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		12/21/12 17:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		12/21/12 17:19	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		12/21/12 17:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		12/21/12 17:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		12/21/12 17:19	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		12/21/12 17:19	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		12/21/12 17:19	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		12/21/12 17:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		12/21/12 17:19	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		12/21/12 17:19	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		12/21/12 17:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		12/21/12 17:19	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		12/21/12 17:19	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		12/21/12 17:19	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		12/21/12 17:19	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	84	%	70-130		1		12/21/12 17:19	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		12/21/12 17:19	1868-53-7	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		12/21/12 17:19	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		12/21/12 17:19	2037-26-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-33 **Lab ID: 92141862016** Collected: 12/12/12 09:30 Received: 12/13/12 14:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010		Preparation Method: EPA 3010						
Antimony	ND	ug/L	6.0	5.0	1	12/15/12 12:00	12/19/12 23:55	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:55	7440-38-2	
Barium	**20.3J**	ug/L	100	5.0	1	12/15/12 12:00	12/19/12 23:55	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	12/15/12 12:00	12/19/12 23:55	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	12/15/12 12:00	12/19/12 23:55	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:55	7440-47-3	
Cobalt	**23.4**	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:55	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:55	7440-50-8	
Iron	**2820**	ug/L	300	50.0	1	12/15/12 12:00	12/19/12 23:55	7439-89-6	
Lead	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:55	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	12/15/12 12:00	12/19/12 23:55	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	12/15/12 12:00	12/19/12 23:55	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:55	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	12/15/12 12:00	12/19/12 23:55	7440-28-0	
Tin	ND	ug/L	100	5.0	1	12/15/12 12:00	12/19/12 23:55	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	12/15/12 12:00	12/19/12 23:55	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	12/15/12 12:00	12/19/12 23:55	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470		Preparation Method: EPA 7470						
Mercury	ND	ug/L	0.20	0.10	1	12/17/12 17:40	12/20/12 13:24	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		12/21/12 17:37	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		12/21/12 17:37	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		12/21/12 17:37	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		12/21/12 17:37	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		12/21/12 17:37	107-05-1	
Benzene	**0.94J**	ug/L	1.0	0.25	1		12/21/12 17:37	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		12/21/12 17:37	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		12/21/12 17:37	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		12/21/12 17:37	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		12/21/12 17:37	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		12/21/12 17:37	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		12/21/12 17:37	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		12/21/12 17:37	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		12/21/12 17:37	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		12/21/12 17:37	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		12/21/12 17:37	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/21/12 17:37	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		12/21/12 17:37	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		12/21/12 17:37	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		12/21/12 17:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		12/21/12 17:37	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		12/21/12 17:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		12/21/12 17:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		12/21/12 17:37	541-73-1	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-33 **Lab ID: 92141862016** Collected: 12/12/12 09:30 Received: 12/13/12 14:55 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	**0.58J**	ug/L	1.0	0.33	1		12/21/12 17:37	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		12/21/12 17:37	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		12/21/12 17:37	75-71-8	
1,1-Dichloroethane	**2.7J**	ug/L	5.0	0.32	1		12/21/12 17:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		12/21/12 17:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		12/21/12 17:37	75-35-4	
cis-1,2-Dichloroethene	**4.4J**	ug/L	5.0	0.19	1		12/21/12 17:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		12/21/12 17:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		12/21/12 17:37	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		12/21/12 17:37	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		12/21/12 17:37	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		12/21/12 17:37	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		12/21/12 17:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		12/21/12 17:37	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/21/12 17:37	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		12/21/12 17:37	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		12/21/12 17:37	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		12/21/12 17:37	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		12/21/12 17:37	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		12/21/12 17:37	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		12/21/12 17:37	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		12/21/12 17:37	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		12/21/12 17:37	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		12/21/12 17:37	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		12/21/12 17:37	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		12/21/12 17:37	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		12/21/12 17:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		12/21/12 17:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		12/21/12 17:37	79-34-5	
Tetrachloroethene	**0.50J**	ug/L	1.0	0.46	1		12/21/12 17:37	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		12/21/12 17:37	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		12/21/12 17:37	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		12/21/12 17:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		12/21/12 17:37	79-00-5	
Trichloroethene	**0.56J**	ug/L	1.0	0.47	1		12/21/12 17:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		12/21/12 17:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		12/21/12 17:37	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		12/21/12 17:37	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		12/21/12 17:37	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		12/21/12 17:37	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		1		12/21/12 17:37	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		12/21/12 17:37	1868-53-7	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		12/21/12 17:37	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		12/21/12 17:37	2037-26-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-33 **Lab ID: 92141862016** Collected: 12/12/12 09:30 Received: 12/13/12 14:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	ND	ug/L	5000	1000	1		12/22/12 00:55		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		12/19/12 15:45	18496-25-8	
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	ND	ug/L	2000	2000	1	12/14/12 01:45	12/18/12 23:45		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**11000J**	ug/L	250000	2000	1		12/28/12 19:46	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**59.9J**	ug/L	10000	20.0	1		12/13/12 23:11		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**4070**	ug/L	1000	1000	1		12/28/12 10:53	16887-00-6	
5220D COD	Analytical Method: SM 5220D								
Chemical Oxygen Demand	ND	ug/L	25000	25000	1		12/29/12 13:50		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**6570**	ug/L	1000	1000	1		12/22/12 00:00	7440-44-0	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-34 **Lab ID: 92141862017** Collected: 12/12/12 10:10 Received: 12/13/12 14:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010		Preparation Method: EPA 3010						
Antimony	ND	ug/L	6.0	5.0	1	12/15/12 12:00	12/19/12 23:58	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:58	7440-38-2	
Barium	**21.4J**	ug/L	100	5.0	1	12/15/12 12:00	12/19/12 23:58	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	12/15/12 12:00	12/19/12 23:58	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	12/15/12 12:00	12/19/12 23:58	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:58	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:58	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:58	7440-50-8	
Iron	**3150**	ug/L	300	50.0	1	12/15/12 12:00	12/19/12 23:58	7439-89-6	
Lead	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:58	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	12/15/12 12:00	12/19/12 23:58	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	12/15/12 12:00	12/19/12 23:58	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 23:58	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	12/15/12 12:00	12/19/12 23:58	7440-28-0	
Tin	ND	ug/L	100	5.0	1	12/15/12 12:00	12/19/12 23:58	7440-31-5	
Vanadium	**5.3J**	ug/L	25.0	5.0	1	12/15/12 12:00	12/19/12 23:58	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	12/15/12 12:00	12/19/12 23:58	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470		Preparation Method: EPA 7470						
Mercury	ND	ug/L	0.20	0.10	1	12/17/12 17:40	12/20/12 13:26	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		12/21/12 17:55	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		12/21/12 17:55	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		12/21/12 17:55	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		12/21/12 17:55	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		12/21/12 17:55	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		12/21/12 17:55	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		12/21/12 17:55	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		12/21/12 17:55	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		12/21/12 17:55	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		12/21/12 17:55	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		12/21/12 17:55	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		12/21/12 17:55	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		12/21/12 17:55	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		12/21/12 17:55	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		12/21/12 17:55	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		12/21/12 17:55	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/21/12 17:55	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		12/21/12 17:55	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		12/21/12 17:55	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		12/21/12 17:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		12/21/12 17:55	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		12/21/12 17:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		12/21/12 17:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		12/21/12 17:55	541-73-1	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-34 **Lab ID: 92141862017** Collected: 12/12/12 10:10 Received: 12/13/12 14:55 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		12/21/12 17:55	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		12/21/12 17:55	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		12/21/12 17:55	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		12/21/12 17:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		12/21/12 17:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		12/21/12 17:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		12/21/12 17:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		12/21/12 17:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		12/21/12 17:55	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		12/21/12 17:55	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		12/21/12 17:55	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		12/21/12 17:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		12/21/12 17:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		12/21/12 17:55	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/21/12 17:55	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		12/21/12 17:55	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		12/21/12 17:55	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		12/21/12 17:55	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		12/21/12 17:55	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		12/21/12 17:55	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		12/21/12 17:55	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		12/21/12 17:55	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		12/21/12 17:55	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		12/21/12 17:55	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		12/21/12 17:55	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		12/21/12 17:55	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		12/21/12 17:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		12/21/12 17:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		12/21/12 17:55	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		12/21/12 17:55	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		12/21/12 17:55	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		12/21/12 17:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		12/21/12 17:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		12/21/12 17:55	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		12/21/12 17:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		12/21/12 17:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		12/21/12 17:55	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		12/21/12 17:55	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		12/21/12 17:55	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		12/21/12 17:55	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	84	%	70-130		1		12/21/12 17:55	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		12/21/12 17:55	1868-53-7	
1,2-Dichloroethane-d4 (S)	110	%	70-130		1		12/21/12 17:55	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		12/21/12 17:55	2037-26-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-34 **Lab ID: 92141862017** Collected: 12/12/12 10:10 Received: 12/13/12 14:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**3370J**	ug/L	5000	1000	1		12/22/12 01:07		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		12/19/12 15:45	18496-25-8	
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	ND	ug/L	2000	2000	1	12/14/12 01:45	12/18/12 23:45		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**5970J**	ug/L	250000	2000	1		12/28/12 20:26	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**167J**	ug/L	10000	20.0	1		12/13/12 23:19		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**1280**	ug/L	1000	1000	1		12/28/12 10:54	16887-00-6	
5220D COD	Analytical Method: SM 5220D								
Chemical Oxygen Demand	ND	ug/L	25000	25000	1		12/29/12 13:50		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**2300**	ug/L	1000	1000	1		12/22/12 00:14	7440-44-0	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-12 **Lab ID: 92141862018** Collected: 12/12/12 16:40 Received: 12/13/12 14:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010		Preparation Method: EPA 3010						
Antimony	ND	ug/L	6.0	5.0	1	12/15/12 12:00	12/20/12 00:01	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/20/12 00:01	7440-38-2	
Barium	**105**	ug/L	100	5.0	1	12/15/12 12:00	12/20/12 00:01	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	12/15/12 12:00	12/20/12 00:01	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	12/15/12 12:00	12/20/12 00:01	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/20/12 00:01	7440-47-3	
Cobalt	**45.0**	ug/L	10.0	5.0	1	12/15/12 12:00	12/20/12 00:01	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/20/12 00:01	7440-50-8	
Iron	**8560**	ug/L	300	50.0	1	12/15/12 12:00	12/20/12 00:01	7439-89-6	
Lead	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/20/12 00:01	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	12/15/12 12:00	12/20/12 00:01	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	12/15/12 12:00	12/20/12 00:01	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/20/12 00:01	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	12/15/12 12:00	12/20/12 00:01	7440-28-0	
Tin	ND	ug/L	100	5.0	1	12/15/12 12:00	12/20/12 00:01	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	12/15/12 12:00	12/20/12 00:01	7440-62-2	
Zinc	**141**	ug/L	10.0	10.0	1	12/15/12 12:00	12/20/12 00:01	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470		Preparation Method: EPA 7470						
Mercury	ND	ug/L	0.20	0.10	1	12/17/12 17:40	12/20/12 13:29	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		12/21/12 18:14	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		12/21/12 18:14	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		12/21/12 18:14	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		12/21/12 18:14	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		12/21/12 18:14	107-05-1	
Benzene	**6.0**	ug/L	1.0	0.25	1		12/21/12 18:14	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		12/21/12 18:14	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		12/21/12 18:14	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		12/21/12 18:14	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		12/21/12 18:14	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		12/21/12 18:14	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		12/21/12 18:14	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		12/21/12 18:14	56-23-5	
Chlorobenzene	**2.7J**	ug/L	3.0	0.23	1		12/21/12 18:14	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		12/21/12 18:14	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		12/21/12 18:14	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/21/12 18:14	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		12/21/12 18:14	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		12/21/12 18:14	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		12/21/12 18:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		12/21/12 18:14	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		12/21/12 18:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		12/21/12 18:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		12/21/12 18:14	541-73-1	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-12 **Lab ID: 92141862018** Collected: 12/12/12 16:40 Received: 12/13/12 14:55 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	**8.8**	ug/L	1.0	0.33	1		12/21/12 18:14	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		12/21/12 18:14	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		12/21/12 18:14	75-71-8	
1,1-Dichloroethane	**2.3J**	ug/L	5.0	0.32	1		12/21/12 18:14	75-34-3	
1,2-Dichloroethane	**0.41J**	ug/L	1.0	0.12	1		12/21/12 18:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		12/21/12 18:14	75-35-4	
cis-1,2-Dichloroethene	**12.2**	ug/L	5.0	0.19	1		12/21/12 18:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		12/21/12 18:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		12/21/12 18:14	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		12/21/12 18:14	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		12/21/12 18:14	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		12/21/12 18:14	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		12/21/12 18:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		12/21/12 18:14	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/21/12 18:14	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		12/21/12 18:14	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		12/21/12 18:14	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		12/21/12 18:14	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		12/21/12 18:14	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		12/21/12 18:14	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		12/21/12 18:14	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		12/21/12 18:14	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		12/21/12 18:14	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		12/21/12 18:14	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		12/21/12 18:14	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		12/21/12 18:14	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		12/21/12 18:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		12/21/12 18:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		12/21/12 18:14	79-34-5	
Tetrachloroethene	**0.92J**	ug/L	1.0	0.46	1		12/21/12 18:14	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		12/21/12 18:14	108-88-3	
1,2,4-Trichlorobenzene	**0.83J**	ug/L	10.0	0.35	1		12/21/12 18:14	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		12/21/12 18:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		12/21/12 18:14	79-00-5	
Trichloroethene	**2.4**	ug/L	1.0	0.47	1		12/21/12 18:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		12/21/12 18:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		12/21/12 18:14	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		12/21/12 18:14	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		12/21/12 18:14	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		12/21/12 18:14	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		1		12/21/12 18:14	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		12/21/12 18:14	1868-53-7	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		12/21/12 18:14	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		12/21/12 18:14	2037-26-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-12 **Lab ID: 92141862018** Collected: 12/12/12 16:40 Received: 12/13/12 14:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**72600**	ug/L	5000	1000	1		12/22/12 01:12		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		12/19/12 15:45	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**3470J**	ug/L	250000	2000	1		12/28/12 20:40	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	ug/L	10000	20.0	1		12/14/12 00:03		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**10200**	ug/L	1000	1000	1		12/28/12 11:59	16887-00-6	
5220D COD	Analytical Method: SM 5220D								
Chemical Oxygen Demand	ND	ug/L	25000	25000	1		12/29/12 13:50		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**19200**	ug/L	1000	1000	1		12/22/12 00:24	7440-44-0	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-12D **Lab ID: 92141862019** Collected: 12/12/12 16:05 Received: 12/13/12 14:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010		Preparation Method: EPA 3010						
Antimony	ND	ug/L	6.0	5.0	1	12/15/12 12:00	12/20/12 00:05	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/20/12 00:05	7440-38-2	
Barium	**6.0J**	ug/L	100	5.0	1	12/15/12 12:00	12/20/12 00:05	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	12/15/12 12:00	12/20/12 00:05	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	12/15/12 12:00	12/20/12 00:05	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/20/12 00:05	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/20/12 00:05	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/20/12 00:05	7440-50-8	
Iron	**1540**	ug/L	300	50.0	1	12/15/12 12:00	12/20/12 00:05	7439-89-6	
Lead	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/20/12 00:05	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	12/15/12 12:00	12/20/12 00:05	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	12/15/12 12:00	12/20/12 00:05	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/20/12 00:05	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	12/15/12 12:00	12/20/12 00:05	7440-28-0	
Tin	ND	ug/L	100	5.0	1	12/15/12 12:00	12/20/12 00:05	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	12/15/12 12:00	12/20/12 00:05	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	12/15/12 12:00	12/20/12 00:05	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470		Preparation Method: EPA 7470						
Mercury	ND	ug/L	0.20	0.10	1	12/17/12 17:40	12/20/12 13:37	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		12/21/12 18:32	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		12/21/12 18:32	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		12/21/12 18:32	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		12/21/12 18:32	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		12/21/12 18:32	107-05-1	
Benzene	**0.50J**	ug/L	1.0	0.25	1		12/21/12 18:32	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		12/21/12 18:32	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		12/21/12 18:32	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		12/21/12 18:32	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		12/21/12 18:32	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		12/21/12 18:32	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		12/21/12 18:32	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		12/21/12 18:32	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		12/21/12 18:32	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		12/21/12 18:32	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		12/21/12 18:32	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/21/12 18:32	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		12/21/12 18:32	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		12/21/12 18:32	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		12/21/12 18:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		12/21/12 18:32	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		12/21/12 18:32	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		12/21/12 18:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		12/21/12 18:32	541-73-1	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-12D **Lab ID: 92141862019** Collected: 12/12/12 16:05 Received: 12/13/12 14:55 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		12/21/12 18:32	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		12/21/12 18:32	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		12/21/12 18:32	75-71-8	
1,1-Dichloroethane	**0.47J**	ug/L	5.0	0.32	1		12/21/12 18:32	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		12/21/12 18:32	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		12/21/12 18:32	75-35-4	
cis-1,2-Dichloroethene	**0.65J**	ug/L	5.0	0.19	1		12/21/12 18:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		12/21/12 18:32	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		12/21/12 18:32	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		12/21/12 18:32	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		12/21/12 18:32	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		12/21/12 18:32	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		12/21/12 18:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		12/21/12 18:32	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/21/12 18:32	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		12/21/12 18:32	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		12/21/12 18:32	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		12/21/12 18:32	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		12/21/12 18:32	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		12/21/12 18:32	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		12/21/12 18:32	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		12/21/12 18:32	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		12/21/12 18:32	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		12/21/12 18:32	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		12/21/12 18:32	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		12/21/12 18:32	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		12/21/12 18:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		12/21/12 18:32	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		12/21/12 18:32	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		12/21/12 18:32	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		12/21/12 18:32	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		12/21/12 18:32	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		12/21/12 18:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		12/21/12 18:32	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		12/21/12 18:32	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		12/21/12 18:32	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		12/21/12 18:32	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		12/21/12 18:32	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		12/21/12 18:32	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		12/21/12 18:32	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	84	%	70-130		1		12/21/12 18:32	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		12/21/12 18:32	1868-53-7	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		12/21/12 18:32	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		12/21/12 18:32	2037-26-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-12D **Lab ID: 92141862019** Collected: 12/12/12 16:05 Received: 12/13/12 14:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**342000**	ug/L	5000	1000	1		12/22/12 01:21		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		12/19/12 15:45	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**2820J**	ug/L	250000	2000	1		12/28/12 20:54	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**43.5J**	ug/L	10000	20.0	1		12/13/12 23:58		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**53500**	ug/L	5000	5000	5		12/28/12 11:43	16887-00-6	
5220D COD	Analytical Method: SM 5220D								
Chemical Oxygen Demand	ND	ug/L	25000	25000	1		12/29/12 13:50		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**10100**	ug/L	1000	1000	1		12/27/12 19:48	7440-44-0	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-18 **Lab ID: 92141862020** Collected: 12/12/12 09:00 Received: 12/13/12 14:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010		Preparation Method: EPA 3010						
Antimony	ND	ug/L	6.0	5.0	1	12/15/12 12:00	12/19/12 20:39	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 20:39	7440-38-2	
Barium	**32.1J**	ug/L	100	5.0	1	12/15/12 12:00	12/19/12 20:39	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	12/15/12 12:00	12/19/12 20:39	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	12/15/12 12:00	12/19/12 20:39	7440-43-9	
Chromium	**12.0**	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 20:39	7440-47-3	
Cobalt	**20.3**	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 20:39	7440-48-4	
Copper	**23.2**	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 20:39	7440-50-8	
Iron	**18300**	ug/L	300	50.0	1	12/15/12 12:00	12/19/12 20:39	7439-89-6	
Lead	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 20:39	7439-92-1	
Nickel	**11.8J**	ug/L	50.0	5.0	1	12/15/12 12:00	12/19/12 20:39	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	12/15/12 12:00	12/19/12 20:39	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 20:39	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	12/15/12 12:00	12/19/12 20:39	7440-28-0	
Tin	ND	ug/L	100	5.0	1	12/15/12 12:00	12/19/12 20:39	7440-31-5	
Vanadium	**19.0J**	ug/L	25.0	5.0	1	12/15/12 12:00	12/19/12 20:39	7440-62-2	
Zinc	**14.5**	ug/L	10.0	10.0	1	12/15/12 12:00	12/19/12 20:39	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470		Preparation Method: EPA 7470						
Mercury	ND	ug/L	0.20	0.10	1	12/17/12 17:40	12/20/12 13:39	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		12/21/12 18:51	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		12/21/12 18:51	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		12/21/12 18:51	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		12/21/12 18:51	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		12/21/12 18:51	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		12/21/12 18:51	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		12/21/12 18:51	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		12/21/12 18:51	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		12/21/12 18:51	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		12/21/12 18:51	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		12/21/12 18:51	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		12/21/12 18:51	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		12/21/12 18:51	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		12/21/12 18:51	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		12/21/12 18:51	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		12/21/12 18:51	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/21/12 18:51	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		12/21/12 18:51	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		12/21/12 18:51	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		12/21/12 18:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		12/21/12 18:51	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		12/21/12 18:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		12/21/12 18:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		12/21/12 18:51	541-73-1	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-18 **Lab ID: 92141862020** Collected: 12/12/12 09:00 Received: 12/13/12 14:55 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		12/21/12 18:51	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		12/21/12 18:51	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		12/21/12 18:51	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		12/21/12 18:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		12/21/12 18:51	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		12/21/12 18:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		12/21/12 18:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		12/21/12 18:51	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		12/21/12 18:51	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		12/21/12 18:51	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		12/21/12 18:51	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		12/21/12 18:51	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		12/21/12 18:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		12/21/12 18:51	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/21/12 18:51	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		12/21/12 18:51	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		12/21/12 18:51	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		12/21/12 18:51	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		12/21/12 18:51	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		12/21/12 18:51	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		12/21/12 18:51	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		12/21/12 18:51	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		12/21/12 18:51	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		12/21/12 18:51	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		12/21/12 18:51	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		12/21/12 18:51	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		12/21/12 18:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		12/21/12 18:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		12/21/12 18:51	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		12/21/12 18:51	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		12/21/12 18:51	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		12/21/12 18:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		12/21/12 18:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		12/21/12 18:51	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		12/21/12 18:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		12/21/12 18:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		12/21/12 18:51	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		12/21/12 18:51	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		12/21/12 18:51	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		12/21/12 18:51	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		1		12/21/12 18:51	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		12/21/12 18:51	1868-53-7	
1,2-Dichloroethane-d4 (S)	111	%	70-130		1		12/21/12 18:51	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		12/21/12 18:51	2037-26-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-18 **Lab ID: 92141862020** Collected: 12/12/12 09:00 Received: 12/13/12 14:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	ND	ug/L	5000	1000	1		12/22/12 01:29		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		12/19/12 15:45	18496-25-8	
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	ND	ug/L	2000	2000	1	12/14/12 01:45	12/18/12 23:45		B2
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**7290J**	ug/L	250000	2000	1		12/28/12 21:07	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**62.2J**	ug/L	10000	20.0	1		12/13/12 23:06		M1
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**1150**	ug/L	1000	1000	1		12/28/12 11:59	16887-00-6	
5220D COD	Analytical Method: SM 5220D								
Chemical Oxygen Demand	ND	ug/L	25000	25000	1		12/29/12 13:50		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**4790**	ug/L	1000	1000	1		12/27/12 20:34	7440-44-0	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-24 **Lab ID: 92141862021** Collected: 12/12/12 11:00 Received: 12/13/12 14:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010		Preparation Method: EPA 3010						
Antimony	ND	ug/L	6.0	5.0	1	12/15/12 12:00	12/19/12 20:47	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 20:47	7440-38-2	
Barium	**69.7J**	ug/L	100	5.0	1	12/15/12 12:00	12/19/12 20:47	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	12/15/12 12:00	12/19/12 20:47	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	12/15/12 12:00	12/19/12 20:47	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 20:47	7440-47-3	
Cobalt	**22.6**	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 20:47	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 20:47	7440-50-8	
Iron	**1710**	ug/L	300	50.0	1	12/15/12 12:00	12/19/12 20:47	7439-89-6	
Lead	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 20:47	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	12/15/12 12:00	12/19/12 20:47	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	12/15/12 12:00	12/19/12 20:47	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 20:47	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	12/15/12 12:00	12/19/12 20:47	7440-28-0	
Tin	ND	ug/L	100	5.0	1	12/15/12 12:00	12/19/12 20:47	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	12/15/12 12:00	12/19/12 20:47	7440-62-2	
Zinc	**13.2**	ug/L	10.0	10.0	1	12/15/12 12:00	12/19/12 20:47	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470		Preparation Method: EPA 7470						
Mercury	ND	ug/L	0.20	0.10	1	12/17/12 17:40	12/20/12 13:42	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		12/17/12 19:47	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		12/17/12 19:47	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		12/17/12 19:47	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		12/17/12 19:47	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		12/17/12 19:47	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		12/17/12 19:47	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		12/17/12 19:47	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		12/17/12 19:47	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		12/17/12 19:47	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		12/17/12 19:47	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		12/17/12 19:47	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		12/17/12 19:47	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		12/17/12 19:47	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		12/17/12 19:47	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		12/17/12 19:47	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		12/17/12 19:47	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/17/12 19:47	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		12/17/12 19:47	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		12/17/12 19:47	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		12/17/12 19:47	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		12/17/12 19:47	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		12/17/12 19:47	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		12/17/12 19:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		12/17/12 19:47	541-73-1	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-24 **Lab ID: 92141862021** Collected: 12/12/12 11:00 Received: 12/13/12 14:55 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	**1.3**	ug/L	1.0	0.33	1		12/17/12 19:47	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		12/17/12 19:47	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		12/17/12 19:47	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		12/17/12 19:47	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		12/17/12 19:47	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		12/17/12 19:47	75-35-4	
cis-1,2-Dichloroethene	**2.2J**	ug/L	5.0	0.19	1		12/17/12 19:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		12/17/12 19:47	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		12/17/12 19:47	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		12/17/12 19:47	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		12/17/12 19:47	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		12/17/12 19:47	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		12/17/12 19:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		12/17/12 19:47	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/17/12 19:47	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		12/17/12 19:47	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		12/17/12 19:47	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		12/17/12 19:47	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		12/17/12 19:47	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		12/17/12 19:47	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		12/17/12 19:47	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		12/17/12 19:47	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		12/17/12 19:47	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		12/17/12 19:47	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		12/17/12 19:47	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		12/17/12 19:47	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		12/17/12 19:47	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		12/17/12 19:47	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		12/17/12 19:47	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		12/17/12 19:47	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		12/17/12 19:47	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		12/17/12 19:47	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		12/17/12 19:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		12/17/12 19:47	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		12/17/12 19:47	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		12/17/12 19:47	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		12/17/12 19:47	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		12/17/12 19:47	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		12/17/12 19:47	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		12/17/12 19:47	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		12/17/12 19:47	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		12/17/12 19:47	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		12/17/12 19:47	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		12/17/12 19:47	2037-26-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-24 **Lab ID: 92141862021** Collected: 12/12/12 11:00 Received: 12/13/12 14:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**35500**	ug/L	5000	1000	1		12/22/12 01:33		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		12/19/12 15:45	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**5880J**	ug/L	250000	2000	1		12/28/12 21:21	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**331J**	ug/L	10000	20.0	1		12/13/12 23:20		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**22600**	ug/L	1000	1000	1		12/28/12 12:00	16887-00-6	
5220D COD	Analytical Method: SM 5220D								
Chemical Oxygen Demand	ND	ug/L	25000	25000	1		12/29/12 13:50		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**9330**	ug/L	1000	1000	1		12/27/12 20:44	7440-44-0	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-1 **Lab ID: 92141862022** Collected: 12/13/12 15:00 Received: 12/14/12 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010		Preparation Method: EPA 3010						
Antimony	ND	ug/L	6.0	5.0	1	12/22/12 11:35	12/26/12 20:15	7440-36-0	
Arsenic	**6.6J**	ug/L	10.0	5.0	1	12/22/12 11:35	12/26/12 20:15	7440-38-2	
Barium	**43.2J**	ug/L	100	5.0	1	12/22/12 11:35	12/26/12 20:15	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	12/22/12 11:35	12/26/12 20:15	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	12/22/12 11:35	12/26/12 20:15	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	12/22/12 11:35	12/26/12 20:15	7440-47-3	
Cobalt	**18.8**	ug/L	10.0	5.0	1	12/22/12 11:35	12/26/12 20:15	7440-48-4	
Copper	**12.5**	ug/L	10.0	5.0	1	12/22/12 11:35	12/26/12 20:15	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	12/22/12 11:35	12/26/12 20:15	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	12/22/12 11:35	12/26/12 20:15	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	12/22/12 11:35	12/26/12 20:15	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	12/22/12 11:35	12/26/12 20:15	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	12/22/12 11:35	12/26/12 20:15	7440-28-0	
Tin	ND	ug/L	100	5.0	1	12/22/12 11:35	12/26/12 20:15	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	12/22/12 11:35	12/26/12 20:15	7440-62-2	
Zinc	**12.2**	ug/L	10.0	10.0	1	12/22/12 11:35	12/26/12 20:15	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470		Preparation Method: EPA 7470						
Mercury	ND	ug/L	0.20	0.10	1	12/20/12 17:00	12/21/12 14:57	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		12/17/12 20:05	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		12/17/12 20:05	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		12/17/12 20:05	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		12/17/12 20:05	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		12/17/12 20:05	107-05-1	
Benzene	**5.5**	ug/L	1.0	0.25	1		12/17/12 20:05	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		12/17/12 20:05	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		12/17/12 20:05	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		12/17/12 20:05	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		12/17/12 20:05	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		12/17/12 20:05	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		12/17/12 20:05	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		12/17/12 20:05	56-23-5	
Chlorobenzene	**0.92J**	ug/L	3.0	0.23	1		12/17/12 20:05	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		12/17/12 20:05	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		12/17/12 20:05	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/17/12 20:05	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		12/17/12 20:05	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		12/17/12 20:05	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		12/17/12 20:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		12/17/12 20:05	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		12/17/12 20:05	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		12/17/12 20:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		12/17/12 20:05	541-73-1	
1,4-Dichlorobenzene	**4.0**	ug/L	1.0	0.33	1		12/17/12 20:05	106-46-7	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-1 **Lab ID: 92141862022** Collected: 12/13/12 15:00 Received: 12/14/12 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		12/17/12 20:05	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		12/17/12 20:05	75-71-8	
1,1-Dichloroethane	**0.57J**	ug/L	5.0	0.32	1		12/17/12 20:05	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		12/17/12 20:05	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		12/17/12 20:05	75-35-4	
cis-1,2-Dichloroethene	**6.7**	ug/L	5.0	0.19	1		12/17/12 20:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		12/17/12 20:05	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		12/17/12 20:05	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		12/17/12 20:05	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		12/17/12 20:05	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		12/17/12 20:05	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		12/17/12 20:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		12/17/12 20:05	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/17/12 20:05	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		12/17/12 20:05	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		12/17/12 20:05	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		12/17/12 20:05	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		12/17/12 20:05	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		12/17/12 20:05	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		12/17/12 20:05	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		12/17/12 20:05	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		12/17/12 20:05	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		12/17/12 20:05	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		12/17/12 20:05	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		12/17/12 20:05	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		12/17/12 20:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		12/17/12 20:05	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		12/17/12 20:05	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		12/17/12 20:05	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		12/17/12 20:05	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		12/17/12 20:05	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		12/17/12 20:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		12/17/12 20:05	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		12/17/12 20:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		12/17/12 20:05	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		12/17/12 20:05	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		12/17/12 20:05	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		12/17/12 20:05	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		12/17/12 20:05	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		1		12/17/12 20:05	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		12/17/12 20:05	1868-53-7	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		12/17/12 20:05	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		12/17/12 20:05	2037-26-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-1 **Lab ID: 92141862022** Collected: 12/13/12 15:00 Received: 12/14/12 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		12/19/12 15:45	18496-25-8	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-1B **Lab ID: 92141862023** Collected: 12/13/12 14:20 Received: 12/14/12 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	12/22/12 11:35	12/26/12 20:18	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	12/22/12 11:35	12/26/12 20:18	7440-38-2	
Barium	**64.2J**	ug/L	100	5.0	1	12/22/12 11:35	12/26/12 20:18	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	12/22/12 11:35	12/26/12 20:18	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	12/22/12 11:35	12/26/12 20:18	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	12/22/12 11:35	12/26/12 20:18	7440-47-3	
Cobalt	**68.3**	ug/L	10.0	5.0	1	12/22/12 11:35	12/26/12 20:18	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	12/22/12 11:35	12/26/12 20:18	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	12/22/12 11:35	12/26/12 20:18	7439-92-1	
Nickel	**8.4J**	ug/L	50.0	5.0	1	12/22/12 11:35	12/26/12 20:18	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	12/22/12 11:35	12/26/12 20:18	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	12/22/12 11:35	12/26/12 20:18	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	12/22/12 11:35	12/26/12 20:18	7440-28-0	
Tin	ND	ug/L	100	5.0	1	12/22/12 11:35	12/26/12 20:18	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	12/22/12 11:35	12/26/12 20:18	7440-62-2	
Zinc	**18.7**	ug/L	10.0	10.0	1	12/22/12 11:35	12/26/12 20:18	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.44**	ug/L	0.20	0.10	1	12/20/12 17:00	12/21/12 14:59	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		12/17/12 20:24	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		12/17/12 20:24	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		12/17/12 20:24	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		12/17/12 20:24	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		12/17/12 20:24	107-05-1	
Benzene	**4.0**	ug/L	1.0	0.25	1		12/17/12 20:24	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		12/17/12 20:24	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		12/17/12 20:24	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		12/17/12 20:24	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		12/17/12 20:24	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		12/17/12 20:24	78-93-3	
Carbon disulfide	**1.2J**	ug/L	100	1.2	1		12/17/12 20:24	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		12/17/12 20:24	56-23-5	
Chlorobenzene	**0.61J**	ug/L	3.0	0.23	1		12/17/12 20:24	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		12/17/12 20:24	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		12/17/12 20:24	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/17/12 20:24	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		12/17/12 20:24	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		12/17/12 20:24	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		12/17/12 20:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		12/17/12 20:24	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		12/17/12 20:24	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		12/17/12 20:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		12/17/12 20:24	541-73-1	
1,4-Dichlorobenzene	**3.6**	ug/L	1.0	0.33	1		12/17/12 20:24	106-46-7	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-1B **Lab ID: 92141862023** Collected: 12/13/12 14:20 Received: 12/14/12 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		12/17/12 20:24	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		12/17/12 20:24	75-71-8	
1,1-Dichloroethane	**1.3J**	ug/L	5.0	0.32	1		12/17/12 20:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		12/17/12 20:24	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		12/17/12 20:24	75-35-4	
cis-1,2-Dichloroethene	**7.0**	ug/L	5.0	0.19	1		12/17/12 20:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		12/17/12 20:24	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		12/17/12 20:24	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		12/17/12 20:24	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		12/17/12 20:24	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		12/17/12 20:24	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		12/17/12 20:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		12/17/12 20:24	10061-02-6	
Ethylbenzene	**0.47J**	ug/L	1.0	0.30	1		12/17/12 20:24	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		12/17/12 20:24	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		12/17/12 20:24	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		12/17/12 20:24	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		12/17/12 20:24	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		12/17/12 20:24	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		12/17/12 20:24	126-98-7	
Methylene Chloride	**2.4**	ug/L	1.0	0.97	1		12/17/12 20:24	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		12/17/12 20:24	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		12/17/12 20:24	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		12/17/12 20:24	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		12/17/12 20:24	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		12/17/12 20:24	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		12/17/12 20:24	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		12/17/12 20:24	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		12/17/12 20:24	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		12/17/12 20:24	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		12/17/12 20:24	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		12/17/12 20:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		12/17/12 20:24	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		12/17/12 20:24	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		12/17/12 20:24	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		12/17/12 20:24	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		12/17/12 20:24	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		12/17/12 20:24	75-01-4	
Xylene (Total)	**4.4J**	ug/L	5.0	0.66	1		12/17/12 20:24	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		12/17/12 20:24	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		12/17/12 20:24	1868-53-7	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		12/17/12 20:24	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		12/17/12 20:24	2037-26-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-1B **Lab ID: 92141862023** Collected: 12/13/12 14:20 Received: 12/14/12 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		12/19/12 15:45	18496-25-8	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: SW-5 **Lab ID: 92141862024** Collected: 12/13/12 09:35 Received: 12/14/12 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	12/22/12 11:35	12/26/12 20:21	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	12/22/12 11:35	12/26/12 20:21	7440-38-2	
Barium	**18.6J**	ug/L	100	5.0	1	12/22/12 11:35	12/26/12 20:21	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	12/22/12 11:35	12/26/12 20:21	7440-41-7	
Cadmium	**8.4**	ug/L	1.0	1.0	1	12/22/12 11:35	12/26/12 20:21	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	12/22/12 11:35	12/26/12 20:21	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	12/22/12 11:35	12/26/12 20:21	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	12/22/12 11:35	12/26/12 20:21	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	12/22/12 11:35	12/26/12 20:21	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	12/22/12 11:35	12/26/12 20:21	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	12/22/12 11:35	12/26/12 20:21	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	12/22/12 11:35	12/26/12 20:21	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	12/22/12 11:35	12/26/12 20:21	7440-28-0	
Tin	ND	ug/L	100	5.0	1	12/22/12 11:35	12/26/12 20:21	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	12/22/12 11:35	12/26/12 20:21	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	12/22/12 11:35	12/26/12 20:21	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	12/20/12 17:00	12/21/12 15:02	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		12/17/12 20:42	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		12/17/12 20:42	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		12/17/12 20:42	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		12/17/12 20:42	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		12/17/12 20:42	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		12/17/12 20:42	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		12/17/12 20:42	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		12/17/12 20:42	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		12/17/12 20:42	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		12/17/12 20:42	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		12/17/12 20:42	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		12/17/12 20:42	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		12/17/12 20:42	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		12/17/12 20:42	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		12/17/12 20:42	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		12/17/12 20:42	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/17/12 20:42	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		12/17/12 20:42	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		12/17/12 20:42	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		12/17/12 20:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		12/17/12 20:42	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		12/17/12 20:42	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		12/17/12 20:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		12/17/12 20:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		12/17/12 20:42	106-46-7	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: SW-5 **Lab ID: 92141862024** Collected: 12/13/12 09:35 Received: 12/14/12 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		12/17/12 20:42	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		12/17/12 20:42	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		12/17/12 20:42	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		12/17/12 20:42	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		12/17/12 20:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		12/17/12 20:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		12/17/12 20:42	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		12/17/12 20:42	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		12/17/12 20:42	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		12/17/12 20:42	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		12/17/12 20:42	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		12/17/12 20:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		12/17/12 20:42	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/17/12 20:42	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		12/17/12 20:42	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		12/17/12 20:42	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		12/17/12 20:42	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		12/17/12 20:42	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		12/17/12 20:42	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		12/17/12 20:42	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		12/17/12 20:42	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		12/17/12 20:42	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		12/17/12 20:42	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		12/17/12 20:42	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		12/17/12 20:42	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		12/17/12 20:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		12/17/12 20:42	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		12/17/12 20:42	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		12/17/12 20:42	127-18-4	
Toluene	**0.44J**	ug/L	1.0	0.26	1		12/17/12 20:42	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		12/17/12 20:42	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		12/17/12 20:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		12/17/12 20:42	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		12/17/12 20:42	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		12/17/12 20:42	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		12/17/12 20:42	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		12/17/12 20:42	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		12/17/12 20:42	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		12/17/12 20:42	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	83	%	70-130		1		12/17/12 20:42	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		12/17/12 20:42	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		12/17/12 20:42	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		12/17/12 20:42	2037-26-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: SW-6 **Lab ID: 92141862025** Collected: 12/13/12 09:55 Received: 12/14/12 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	12/22/12 11:35	12/26/12 20:24	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	12/22/12 11:35	12/26/12 20:24	7440-38-2	
Barium	**19.4J**	ug/L	100	5.0	1	12/22/12 11:35	12/26/12 20:24	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	12/22/12 11:35	12/26/12 20:24	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	12/22/12 11:35	12/26/12 20:24	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	12/22/12 11:35	12/26/12 20:24	7440-47-3	
Cobalt	**21.0**	ug/L	10.0	5.0	1	12/22/12 11:35	12/26/12 20:24	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	12/22/12 11:35	12/26/12 20:24	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	12/22/12 11:35	12/26/12 20:24	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	12/22/12 11:35	12/26/12 20:24	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	12/22/12 11:35	12/26/12 20:24	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	12/22/12 11:35	12/26/12 20:24	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	12/22/12 11:35	12/26/12 20:24	7440-28-0	
Tin	ND	ug/L	100	5.0	1	12/22/12 11:35	12/26/12 20:24	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	12/22/12 11:35	12/26/12 20:24	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	12/22/12 11:35	12/26/12 20:24	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	12/21/12 11:20	12/27/12 11:25	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		12/17/12 21:01	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		12/17/12 21:01	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		12/17/12 21:01	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		12/17/12 21:01	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		12/17/12 21:01	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		12/17/12 21:01	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		12/17/12 21:01	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		12/17/12 21:01	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		12/17/12 21:01	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		12/17/12 21:01	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		12/17/12 21:01	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		12/17/12 21:01	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		12/17/12 21:01	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		12/17/12 21:01	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		12/17/12 21:01	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		12/17/12 21:01	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/17/12 21:01	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		12/17/12 21:01	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		12/17/12 21:01	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		12/17/12 21:01	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		12/17/12 21:01	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		12/17/12 21:01	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		12/17/12 21:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		12/17/12 21:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		12/17/12 21:01	106-46-7	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: SW-6 **Lab ID: 92141862025** Collected: 12/13/12 09:55 Received: 12/14/12 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		12/17/12 21:01	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		12/17/12 21:01	75-71-8	
1,1-Dichloroethane	**0.52J**	ug/L	5.0	0.32	1		12/17/12 21:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		12/17/12 21:01	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		12/17/12 21:01	75-35-4	
cis-1,2-Dichloroethene	**0.47J**	ug/L	5.0	0.19	1		12/17/12 21:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		12/17/12 21:01	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		12/17/12 21:01	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		12/17/12 21:01	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		12/17/12 21:01	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		12/17/12 21:01	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		12/17/12 21:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		12/17/12 21:01	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/17/12 21:01	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		12/17/12 21:01	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		12/17/12 21:01	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		12/17/12 21:01	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		12/17/12 21:01	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		12/17/12 21:01	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		12/17/12 21:01	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		12/17/12 21:01	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		12/17/12 21:01	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		12/17/12 21:01	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		12/17/12 21:01	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		12/17/12 21:01	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		12/17/12 21:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		12/17/12 21:01	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		12/17/12 21:01	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		12/17/12 21:01	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		12/17/12 21:01	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		12/17/12 21:01	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		12/17/12 21:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		12/17/12 21:01	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		12/17/12 21:01	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		12/17/12 21:01	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		12/17/12 21:01	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		12/17/12 21:01	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		12/17/12 21:01	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		12/17/12 21:01	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	83	%	70-130		1		12/17/12 21:01	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		12/17/12 21:01	1868-53-7	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		12/17/12 21:01	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		12/17/12 21:01	2037-26-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-7 **Lab ID: 92141862026** Collected: 12/13/12 12:00 Received: 12/14/12 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010		Preparation Method: EPA 3010						
Antimony	ND	ug/L	6.0	5.0	1	12/22/12 11:35	12/26/12 20:27	7440-36-0	
Arsenic	**5.6J**	ug/L	10.0	5.0	1	12/22/12 11:35	12/26/12 20:27	7440-38-2	
Barium	ND	ug/L	100	5.0	1	12/22/12 11:35	12/26/12 20:27	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	12/22/12 11:35	12/26/12 20:27	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	12/22/12 11:35	12/26/12 20:27	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	12/22/12 11:35	12/26/12 20:27	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	12/22/12 11:35	12/26/12 20:27	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	12/22/12 11:35	12/26/12 20:27	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	12/22/12 11:35	12/26/12 20:27	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	12/22/12 11:35	12/26/12 20:27	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	12/22/12 11:35	12/26/12 20:27	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	12/22/12 11:35	12/26/12 20:27	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	12/22/12 11:35	12/26/12 20:27	7440-28-0	
Tin	ND	ug/L	100	5.0	1	12/22/12 11:35	12/26/12 20:27	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	12/22/12 11:35	12/26/12 20:27	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	12/22/12 11:35	12/26/12 20:27	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470		Preparation Method: EPA 7470						
Mercury	ND	ug/L	0.20	0.10	1	12/21/12 11:20	12/27/12 11:33	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		12/17/12 21:19	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		12/17/12 21:19	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		12/17/12 21:19	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		12/17/12 21:19	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		12/17/12 21:19	107-05-1	
Benzene	**4.7**	ug/L	1.0	0.25	1		12/17/12 21:19	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		12/17/12 21:19	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		12/17/12 21:19	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		12/17/12 21:19	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		12/17/12 21:19	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		12/17/12 21:19	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		12/17/12 21:19	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		12/17/12 21:19	56-23-5	
Chlorobenzene	**1.3J**	ug/L	3.0	0.23	1		12/17/12 21:19	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		12/17/12 21:19	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		12/17/12 21:19	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/17/12 21:19	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		12/17/12 21:19	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		12/17/12 21:19	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		12/17/12 21:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		12/17/12 21:19	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		12/17/12 21:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		12/17/12 21:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		12/17/12 21:19	541-73-1	
1,4-Dichlorobenzene	**1.9**	ug/L	1.0	0.33	1		12/17/12 21:19	106-46-7	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-7 **Lab ID: 92141862026** Collected: 12/13/12 12:00 Received: 12/14/12 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		12/17/12 21:19	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		12/17/12 21:19	75-71-8	
1,1-Dichloroethane	**2.8J**	ug/L	5.0	0.32	1		12/17/12 21:19	75-34-3	
1,2-Dichloroethane	**0.31J**	ug/L	1.0	0.12	1		12/17/12 21:19	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		12/17/12 21:19	75-35-4	
cis-1,2-Dichloroethene	**8.2**	ug/L	5.0	0.19	1		12/17/12 21:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		12/17/12 21:19	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		12/17/12 21:19	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		12/17/12 21:19	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		12/17/12 21:19	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		12/17/12 21:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		12/17/12 21:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		12/17/12 21:19	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/17/12 21:19	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		12/17/12 21:19	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		12/17/12 21:19	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		12/17/12 21:19	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		12/17/12 21:19	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		12/17/12 21:19	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		12/17/12 21:19	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		12/17/12 21:19	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		12/17/12 21:19	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		12/17/12 21:19	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		12/17/12 21:19	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		12/17/12 21:19	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		12/17/12 21:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		12/17/12 21:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		12/17/12 21:19	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		12/17/12 21:19	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		12/17/12 21:19	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		12/17/12 21:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		12/17/12 21:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		12/17/12 21:19	79-00-5	
Trichloroethene	**1.0**	ug/L	1.0	0.47	1		12/17/12 21:19	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		12/17/12 21:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		12/17/12 21:19	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		12/17/12 21:19	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		12/17/12 21:19	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		12/17/12 21:19	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	85	%	70-130		1		12/17/12 21:19	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		12/17/12 21:19	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		12/17/12 21:19	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		12/17/12 21:19	2037-26-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-7 **Lab ID: 92141862026** Collected: 12/13/12 12:00 Received: 12/14/12 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		12/19/12 15:45	18496-25-8	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-16 **Lab ID: 92141862027** Collected: 12/13/12 13:30 Received: 12/14/12 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	12/22/12 11:35	12/26/12 20:30	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	12/22/12 11:35	12/26/12 20:30	7440-38-2	
Barium	**50.3J**	ug/L	100	5.0	1	12/22/12 11:35	12/26/12 20:30	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	12/22/12 11:35	12/26/12 20:30	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	12/22/12 11:35	12/26/12 20:30	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	12/22/12 11:35	12/26/12 20:30	7440-47-3	
Cobalt	**26.2**	ug/L	10.0	5.0	1	12/22/12 11:35	12/26/12 20:30	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	12/22/12 11:35	12/26/12 20:30	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	12/22/12 11:35	12/26/12 20:30	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	12/22/12 11:35	12/26/12 20:30	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	12/22/12 11:35	12/26/12 20:30	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	12/22/12 11:35	12/26/12 20:30	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	12/22/12 11:35	12/26/12 20:30	7440-28-0	
Tin	ND	ug/L	100	5.0	1	12/22/12 11:35	12/26/12 20:30	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	12/22/12 11:35	12/26/12 20:30	7440-62-2	
Zinc	**10.1**	ug/L	10.0	10.0	1	12/22/12 11:35	12/26/12 20:30	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	12/21/12 11:20	12/27/12 11:35	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		12/17/12 21:37	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		12/17/12 21:37	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		12/17/12 21:37	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		12/17/12 21:37	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		12/17/12 21:37	107-05-1	
Benzene	**2.6**	ug/L	1.0	0.25	1		12/17/12 21:37	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		12/17/12 21:37	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		12/17/12 21:37	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		12/17/12 21:37	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		12/17/12 21:37	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		12/17/12 21:37	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		12/17/12 21:37	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		12/17/12 21:37	56-23-5	
Chlorobenzene	**0.56J**	ug/L	3.0	0.23	1		12/17/12 21:37	108-90-7	
Chloroethane	**0.77J**	ug/L	10.0	0.54	1		12/17/12 21:37	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		12/17/12 21:37	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/17/12 21:37	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		12/17/12 21:37	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		12/17/12 21:37	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		12/17/12 21:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		12/17/12 21:37	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		12/17/12 21:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		12/17/12 21:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		12/17/12 21:37	541-73-1	
1,4-Dichlorobenzene	**2.1**	ug/L	1.0	0.33	1		12/17/12 21:37	106-46-7	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-16 **Lab ID: 92141862027** Collected: 12/13/12 13:30 Received: 12/14/12 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		12/17/12 21:37	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		12/17/12 21:37	75-71-8	
1,1-Dichloroethane	**11.2**	ug/L	5.0	0.32	1		12/17/12 21:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		12/17/12 21:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		12/17/12 21:37	75-35-4	
cis-1,2-Dichloroethene	**19.1**	ug/L	5.0	0.19	1		12/17/12 21:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		12/17/12 21:37	156-60-5	
1,2-Dichloropropane	**1.1**	ug/L	1.0	0.27	1		12/17/12 21:37	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		12/17/12 21:37	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		12/17/12 21:37	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		12/17/12 21:37	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		12/17/12 21:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		12/17/12 21:37	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/17/12 21:37	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		12/17/12 21:37	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		12/17/12 21:37	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		12/17/12 21:37	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		12/17/12 21:37	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		12/17/12 21:37	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		12/17/12 21:37	126-98-7	
Methylene Chloride	**2.1**	ug/L	1.0	0.97	1		12/17/12 21:37	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		12/17/12 21:37	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		12/17/12 21:37	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		12/17/12 21:37	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		12/17/12 21:37	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		12/17/12 21:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		12/17/12 21:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		12/17/12 21:37	79-34-5	
Tetrachloroethene	**1.8**	ug/L	1.0	0.46	1		12/17/12 21:37	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		12/17/12 21:37	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		12/17/12 21:37	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		12/17/12 21:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		12/17/12 21:37	79-00-5	
Trichloroethene	**2.4**	ug/L	1.0	0.47	1		12/17/12 21:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		12/17/12 21:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		12/17/12 21:37	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		12/17/12 21:37	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		12/17/12 21:37	75-01-4	
Xylene (Total)	**0.67J**	ug/L	5.0	0.66	1		12/17/12 21:37	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	83	%	70-130		1		12/17/12 21:37	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		12/17/12 21:37	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		12/17/12 21:37	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		12/17/12 21:37	2037-26-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: MW-16 **Lab ID: 92141862027** Collected: 12/13/12 13:30 Received: 12/14/12 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		12/19/12 15:45	18496-25-8	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: EB **Lab ID: 92141862028** Collected: 12/13/12 08:30 Received: 12/14/12 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	12/22/12 11:35	12/26/12 20:33	7440-36-0	
Arsenic	**5.1J**	ug/L	10.0	5.0	1	12/22/12 11:35	12/26/12 20:33	7440-38-2	
Barium	ND	ug/L	100	5.0	1	12/22/12 11:35	12/26/12 20:33	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	12/22/12 11:35	12/26/12 20:33	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	12/22/12 11:35	12/26/12 20:33	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	12/22/12 11:35	12/26/12 20:33	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	12/22/12 11:35	12/26/12 20:33	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	12/22/12 11:35	12/26/12 20:33	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	12/22/12 11:35	12/26/12 20:33	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	12/22/12 11:35	12/26/12 20:33	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	12/22/12 11:35	12/26/12 20:33	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	12/22/12 11:35	12/26/12 20:33	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	12/22/12 11:35	12/26/12 20:33	7440-28-0	
Tin	ND	ug/L	100	5.0	1	12/22/12 11:35	12/26/12 20:33	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	12/22/12 11:35	12/26/12 20:33	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	12/22/12 11:35	12/26/12 20:33	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	12/21/12 11:20	12/27/12 11:38	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		12/17/12 21:56	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		12/17/12 21:56	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		12/17/12 21:56	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		12/17/12 21:56	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		12/17/12 21:56	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		12/17/12 21:56	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		12/17/12 21:56	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		12/17/12 21:56	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		12/17/12 21:56	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		12/17/12 21:56	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		12/17/12 21:56	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		12/17/12 21:56	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		12/17/12 21:56	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		12/17/12 21:56	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		12/17/12 21:56	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		12/17/12 21:56	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/17/12 21:56	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		12/17/12 21:56	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		12/17/12 21:56	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		12/17/12 21:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		12/17/12 21:56	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		12/17/12 21:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		12/17/12 21:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		12/17/12 21:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		12/17/12 21:56	106-46-7	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: EB **Lab ID: 92141862028** Collected: 12/13/12 08:30 Received: 12/14/12 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		12/17/12 21:56	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		12/17/12 21:56	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		12/17/12 21:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		12/17/12 21:56	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		12/17/12 21:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		12/17/12 21:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		12/17/12 21:56	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		12/17/12 21:56	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		12/17/12 21:56	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		12/17/12 21:56	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		12/17/12 21:56	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		12/17/12 21:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		12/17/12 21:56	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/17/12 21:56	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		12/17/12 21:56	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		12/17/12 21:56	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		12/17/12 21:56	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		12/17/12 21:56	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		12/17/12 21:56	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		12/17/12 21:56	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		12/17/12 21:56	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		12/17/12 21:56	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		12/17/12 21:56	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		12/17/12 21:56	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		12/17/12 21:56	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		12/17/12 21:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		12/17/12 21:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		12/17/12 21:56	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		12/17/12 21:56	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		12/17/12 21:56	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		12/17/12 21:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		12/17/12 21:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		12/17/12 21:56	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		12/17/12 21:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		12/17/12 21:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		12/17/12 21:56	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		12/17/12 21:56	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		12/17/12 21:56	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		12/17/12 21:56	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	84	%	70-130		1		12/17/12 21:56	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		12/17/12 21:56	1868-53-7	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		12/17/12 21:56	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		12/17/12 21:56	2037-26-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: FB **Lab ID: 92141862029** Collected: 12/13/12 08:40 Received: 12/14/12 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	12/22/12 11:35	12/26/12 20:45	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	12/22/12 11:35	12/26/12 20:45	7440-38-2	
Barium	ND	ug/L	100	5.0	1	12/22/12 11:35	12/26/12 20:45	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	12/22/12 11:35	12/26/12 20:45	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	12/22/12 11:35	12/26/12 20:45	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	12/22/12 11:35	12/26/12 20:45	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	12/22/12 11:35	12/26/12 20:45	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	12/22/12 11:35	12/26/12 20:45	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	12/22/12 11:35	12/26/12 20:45	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	12/22/12 11:35	12/26/12 20:45	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	12/22/12 11:35	12/26/12 20:45	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	12/22/12 11:35	12/26/12 20:45	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	12/22/12 11:35	12/26/12 20:45	7440-28-0	
Tin	ND	ug/L	100	5.0	1	12/22/12 11:35	12/26/12 20:45	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	12/22/12 11:35	12/26/12 20:45	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	12/22/12 11:35	12/26/12 20:45	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	12/21/12 11:20	12/27/12 11:40	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		12/17/12 22:14	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		12/17/12 22:14	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		12/17/12 22:14	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		12/17/12 22:14	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		12/17/12 22:14	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		12/17/12 22:14	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		12/17/12 22:14	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		12/17/12 22:14	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		12/17/12 22:14	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		12/17/12 22:14	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		12/17/12 22:14	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		12/17/12 22:14	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		12/17/12 22:14	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		12/17/12 22:14	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		12/17/12 22:14	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		12/17/12 22:14	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/17/12 22:14	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		12/17/12 22:14	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		12/17/12 22:14	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		12/17/12 22:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		12/17/12 22:14	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		12/17/12 22:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		12/17/12 22:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		12/17/12 22:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		12/17/12 22:14	106-46-7	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: FB **Lab ID: 92141862029** Collected: 12/13/12 08:40 Received: 12/14/12 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		12/17/12 22:14	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		12/17/12 22:14	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		12/17/12 22:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		12/17/12 22:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		12/17/12 22:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		12/17/12 22:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		12/17/12 22:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		12/17/12 22:14	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		12/17/12 22:14	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		12/17/12 22:14	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		12/17/12 22:14	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		12/17/12 22:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		12/17/12 22:14	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/17/12 22:14	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		12/17/12 22:14	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		12/17/12 22:14	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		12/17/12 22:14	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		12/17/12 22:14	74-88-4	
Isobutanol	**84.5J**	ug/L	100	35.0	1		12/17/12 22:14	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		12/17/12 22:14	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		12/17/12 22:14	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		12/17/12 22:14	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		12/17/12 22:14	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		12/17/12 22:14	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		12/17/12 22:14	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		12/17/12 22:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		12/17/12 22:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		12/17/12 22:14	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		12/17/12 22:14	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		12/17/12 22:14	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		12/17/12 22:14	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		12/17/12 22:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		12/17/12 22:14	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		12/17/12 22:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		12/17/12 22:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		12/17/12 22:14	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		12/17/12 22:14	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		12/17/12 22:14	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		12/17/12 22:14	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	83	%	70-130		1		12/17/12 22:14	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		12/17/12 22:14	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		12/17/12 22:14	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		12/17/12 22:14	2037-26-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: TB **Lab ID: 92141862030** Collected: 12/13/12 00:00 Received: 12/14/12 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		12/20/12 20:20	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		12/20/12 20:20	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		12/20/12 20:20	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		12/20/12 20:20	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		12/20/12 20:20	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		12/20/12 20:20	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		12/20/12 20:20	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		12/20/12 20:20	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		12/20/12 20:20	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		12/20/12 20:20	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		12/20/12 20:20	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		12/20/12 20:20	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		12/20/12 20:20	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		12/20/12 20:20	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		12/20/12 20:20	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		12/20/12 20:20	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/20/12 20:20	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		12/20/12 20:20	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		12/20/12 20:20	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		12/20/12 20:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		12/20/12 20:20	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		12/20/12 20:20	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		12/20/12 20:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		12/20/12 20:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		12/20/12 20:20	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		12/20/12 20:20	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		12/20/12 20:20	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		12/20/12 20:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		12/20/12 20:20	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		12/20/12 20:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		12/20/12 20:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		12/20/12 20:20	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		12/20/12 20:20	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		12/20/12 20:20	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		12/20/12 20:20	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		12/20/12 20:20	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		12/20/12 20:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		12/20/12 20:20	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/20/12 20:20	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		12/20/12 20:20	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		12/20/12 20:20	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		12/20/12 20:20	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		12/20/12 20:20	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		12/20/12 20:20	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		12/20/12 20:20	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		12/20/12 20:20	75-09-2	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Sample: TB **Lab ID: 92141862030** Collected: 12/13/12 00:00 Received: 12/14/12 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Methyl methacrylate	ND	ug/L	30.0	2.0	1		12/20/12 20:20	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		12/20/12 20:20	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		12/20/12 20:20	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		12/20/12 20:20	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		12/20/12 20:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		12/20/12 20:20	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		12/20/12 20:20	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		12/20/12 20:20	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		12/20/12 20:20	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		12/20/12 20:20	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		12/20/12 20:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		12/20/12 20:20	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		12/20/12 20:20	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		12/20/12 20:20	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		12/20/12 20:20	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		12/20/12 20:20	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		12/20/12 20:20	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		12/20/12 20:20	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	82	%	70-130		1		12/20/12 20:20	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		12/20/12 20:20	1868-53-7	
1,2-Dichloroethane-d4 (S)	111	%	70-130		1		12/20/12 20:20	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		12/20/12 20:20	2037-26-5	

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

QC Batch: MERP/4769 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 92141862001, 92141862002, 92141862003, 92141862004, 92141862005, 92141862006, 92141862007, 92141862008, 92141862009, 92141862010, 92141862011, 92141862012, 92141862013, 92141862016, 92141862017, 92141862018, 92141862019, 92141862020, 92141862021

METHOD BLANK: 891845 Matrix: Water
Associated Lab Samples: 92141862001, 92141862002, 92141862003, 92141862004, 92141862005, 92141862006, 92141862007, 92141862008, 92141862009, 92141862010, 92141862011, 92141862012, 92141862013, 92141862016, 92141862017, 92141862018, 92141862019, 92141862020, 92141862021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	12/20/12 12:32	

LABORATORY CONTROL SAMPLE: 891846

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.6	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 891847 891848

Parameter	Units	92141862001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	0.17J	2.5	2.5	1.2	1.2	40	40	75-125	2	25	M1

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

QC Batch: MERP/4780 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 92141862022, 92141862023, 92141862024

METHOD BLANK: 894098 Matrix: Water
Associated Lab Samples: 92141862022, 92141862023, 92141862024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	12/21/12 13:45	

LABORATORY CONTROL SAMPLE: 894099

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.7	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 894100 894101

Parameter	Units	92142109001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.6	2.6	104	102	75-125	2	25	

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

QC Batch: MERP/4784 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 92141862025, 92141862026, 92141862027, 92141862028, 92141862029

METHOD BLANK: 894236 Matrix: Water
Associated Lab Samples: 92141862025, 92141862026, 92141862027, 92141862028, 92141862029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	12/27/12 11:19	

LABORATORY CONTROL SAMPLE: 894237

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 894238 894239

Parameter	Units	92141862025 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.2	2.2	88	89	75-125	1	25	

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

QC Batch: MPRP/12211 — Analysis Method: EPA 6010
QC Batch Method: EPA 3010 — Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 92141862001, 92141862002, 92141862003, 92141862004, 92141862005, 92141862006, 92141862007, 92141862008, 92141862009, 92141862010, 92141862011, 92141862012, 92141862013, 92141862014, 92141862015, 92141862016, 92141862017, 92141862018, 92141862019

METHOD BLANK: 891430 — Matrix: Water
Associated Lab Samples: 92141862001, 92141862002, 92141862003, 92141862004, 92141862005, 92141862006, 92141862007, 92141862008, 92141862009, 92141862010, 92141862011, 92141862012, 92141862013, 92141862014, 92141862015, 92141862016, 92141862017, 92141862018, 92141862019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	6.0	12/19/12 22:23	
Arsenic	ug/L	ND	10.0	12/19/12 22:23	
Barium	ug/L	ND	100	12/19/12 22:23	
Beryllium	ug/L	ND	1.0	12/19/12 22:23	
Cadmium	ug/L	ND	1.0	12/19/12 22:23	
Chromium	ug/L	ND	10.0	12/19/12 22:23	
Cobalt	ug/L	ND	10.0	12/19/12 22:23	
Copper	ug/L	ND	10.0	12/19/12 22:23	
Iron	ug/L	ND	300	12/19/12 22:23	
Lead	ug/L	ND	10.0	12/19/12 22:23	
Nickel	ug/L	ND	50.0	12/19/12 22:23	
Selenium	ug/L	ND	10.0	12/19/12 22:23	
Silver	ug/L	ND	10.0	12/19/12 22:23	
Thallium	ug/L	ND	5.5	12/19/12 22:23	
Tin	ug/L	ND	100	12/19/12 22:23	
Vanadium	ug/L	ND	25.0	12/19/12 22:23	
Zinc	ug/L	ND	10.0	12/19/12 22:23	

LABORATORY CONTROL SAMPLE: 891431

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	478	96	80-120	
Arsenic	ug/L	500	470	94	80-120	
Barium	ug/L	500	475	95	80-120	
Beryllium	ug/L	500	483	97	80-120	
Cadmium	ug/L	500	484	97	80-120	
Chromium	ug/L	500	495	99	80-120	
Cobalt	ug/L	500	487	97	80-120	
Copper	ug/L	500	474	95	80-120	
Iron	ug/L	5000	4940	99	80-120	
Lead	ug/L	500	482	96	80-120	
Nickel	ug/L	500	486	97	80-120	
Selenium	ug/L	500	475	95	80-120	
Silver	ug/L	250	244	98	80-120	
Thallium	ug/L	500	457	91	80-120	
Tin	ug/L	500	483	97	80-120	
Vanadium	ug/L	500	493	99	80-120	
Zinc	ug/L	500	483	97	80-120	

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

MATRIX SPIKE SAMPLE: 891432

Parameter	Units	92141831008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	505	101	75-125	
Arsenic	ug/L	ND	500	501	100	75-125	
Barium	ug/L	97.8J	500	563	93	75-125	
Beryllium	ug/L	ND	500	481	96	75-125	
Cadmium	ug/L	ND	500	473	95	75-125	
Chromium	ug/L	ND	500	487	97	75-125	
Cobalt	ug/L	ND	500	475	95	75-125	
Copper	ug/L	ND	500	501	100	75-125	
Iron	ug/L	72.7J	5000	4850	96	75-125	
Lead	ug/L	ND	500	458	92	75-125	
Nickel	ug/L	13.8J	500	488	95	75-125	
Selenium	ug/L	ND	500	502	100	75-125	
Silver	ug/L	ND	250	253	101	75-125	
Thallium	ug/L	ND	500	430	86	75-125	
Tin	ug/L	ND	500	491	98	75-125	
Vanadium	ug/L	ND	500	495	99	75-125	
Zinc	ug/L	ND	500	494	98	75-125	

SAMPLE DUPLICATE: 891433

Parameter	Units	92141862001 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	ND	ND		25	
Arsenic	ug/L	ND	ND		25	
Barium	ug/L	117	113	3	25	
Beryllium	ug/L	ND	ND		25	
Cadmium	ug/L	ND	ND		25	
Chromium	ug/L	ND	ND		25	
Cobalt	ug/L	115	112	3	25	
Copper	ug/L	ND	8.2J		25	
Iron	ug/L	64200	62700	2	25	
Lead	ug/L	ND	ND		25	
Nickel	ug/L	5.4J	5.3J	2	25	
Selenium	ug/L	ND	ND		25	
Silver	ug/L	ND	ND		25	
Thallium	ug/L	ND	ND		25	
Tin	ug/L	ND	ND		25	
Vanadium	ug/L	ND	ND		25	
Zinc	ug/L	12.1	16.0	28	25	D6

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

QC Batch: MPRP/12212
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 92141862020, 92141862021

METHOD BLANK: 891434
Matrix: Water
Associated Lab Samples: 92141862020, 92141862021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	6.0	12/19/12 20:32	
Arsenic	ug/L	ND	10.0	12/19/12 20:32	
Barium	ug/L	ND	100	12/19/12 20:32	
Beryllium	ug/L	ND	1.0	12/19/12 20:32	
Cadmium	ug/L	ND	1.0	12/19/12 20:32	
Chromium	ug/L	ND	10.0	12/19/12 20:32	
Cobalt	ug/L	ND	10.0	12/19/12 20:32	
Copper	ug/L	ND	10.0	12/19/12 20:32	
Iron	ug/L	ND	300	12/19/12 20:32	
Lead	ug/L	ND	10.0	12/19/12 20:32	
Nickel	ug/L	ND	50.0	12/19/12 20:32	
Selenium	ug/L	ND	10.0	12/19/12 20:32	
Silver	ug/L	ND	10.0	12/19/12 20:32	
Thallium	ug/L	ND	5.5	12/19/12 20:32	
Tin	ug/L	ND	100	12/19/12 20:32	
Vanadium	ug/L	ND	25.0	12/19/12 20:32	
Zinc	ug/L	ND	10.0	12/19/12 20:32	

LABORATORY CONTROL SAMPLE: 891435

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	482	96	80-120	
Arsenic	ug/L	500	478	96	80-120	
Barium	ug/L	500	480	96	80-120	
Beryllium	ug/L	500	485	97	80-120	
Cadmium	ug/L	500	490	98	80-120	
Chromium	ug/L	500	496	99	80-120	
Cobalt	ug/L	500	491	98	80-120	
Copper	ug/L	500	479	96	80-120	
Iron	ug/L	5000	4970	99	80-120	
Lead	ug/L	500	485	97	80-120	
Nickel	ug/L	500	489	98	80-120	
Selenium	ug/L	500	479	96	80-120	
Silver	ug/L	250	246	98	80-120	
Thallium	ug/L	500	464	93	80-120	
Tin	ug/L	500	488	98	80-120	
Vanadium	ug/L	500	497	99	80-120	
Zinc	ug/L	500	485	97	80-120	

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

MATRIX SPIKE SAMPLE: 891436

Parameter	Units	92141862020 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	474	95	75-125	
Arsenic	ug/L	ND	500	469	94	75-125	
Barium	ug/L	32.1J	500	523	98	75-125	
Beryllium	ug/L	ND	500	484	97	75-125	
Cadmium	ug/L	ND	500	483	97	75-125	
Chromium	ug/L	12.0	500	511	100	75-125	
Cobalt	ug/L	20.3	500	509	98	75-125	
Copper	ug/L	23.2	500	505	96	75-125	
Iron	ug/L	18300	5000	23400	102	75-125	
Lead	ug/L	ND	500	472	94	75-125	
Nickel	ug/L	11.8J	500	498	97	75-125	
Selenium	ug/L	ND	500	474	95	75-125	
Silver	ug/L	ND	250	245	98	75-125	
Thallium	ug/L	ND	500	451	90	75-125	
Tin	ug/L	ND	500	481	96	75-125	
Vanadium	ug/L	19.0J	500	515	99	75-125	
Zinc	ug/L	14.5	500	499	97	75-125	

SAMPLE DUPLICATE: 891437

Parameter	Units	92141862021 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	ND	ND		25	
Arsenic	ug/L	ND	ND		25	
Barium	ug/L	69.7J	67.2J	4	25	
Beryllium	ug/L	ND	ND		25	
Cadmium	ug/L	ND	ND		25	
Chromium	ug/L	ND	ND		25	
Cobalt	ug/L	22.6	22.4	1	25	
Copper	ug/L	ND	ND		25	
Iron	ug/L	1710	1290	28	25	D6
Lead	ug/L	ND	ND		25	
Nickel	ug/L	ND	ND		25	
Selenium	ug/L	ND	ND		25	
Silver	ug/L	ND	ND		25	
Thallium	ug/L	ND	ND		25	
Tin	ug/L	ND	ND		25	
Vanadium	ug/L	ND	ND		25	
Zinc	ug/L	13.2	11.6	13	25	

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

QC Batch: MPRP/12261 | Analysis Method: EPA 6010
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 92141862022, 92141862023, 92141862024, 92141862025, 92141862026, 92141862027, 92141862028, 92141862029

METHOD BLANK: 895964 | Matrix: Water
Associated Lab Samples: 92141862022, 92141862023, 92141862024, 92141862025, 92141862026, 92141862027, 92141862028, 92141862029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	6.0	12/26/12 19:41	
Arsenic	ug/L	ND	10.0	12/26/12 19:41	
Barium	ug/L	ND	100	12/26/12 19:41	
Beryllium	ug/L	ND	1.0	12/26/12 19:41	
Cadmium	ug/L	ND	1.0	12/26/12 19:41	
Chromium	ug/L	ND	10.0	12/26/12 19:41	
Cobalt	ug/L	ND	10.0	12/26/12 19:41	
Copper	ug/L	ND	10.0	12/26/12 19:41	
Lead	ug/L	ND	10.0	12/26/12 19:41	
Nickel	ug/L	ND	50.0	12/26/12 19:41	
Selenium	ug/L	ND	10.0	12/26/12 19:41	
Silver	ug/L	ND	10.0	12/26/12 19:41	
Thallium	ug/L	ND	5.5	12/26/12 19:41	
Tin	ug/L	ND	100	12/26/12 19:41	
Vanadium	ug/L	ND	25.0	12/26/12 19:41	
Zinc	ug/L	ND	10.0	12/26/12 19:41	

LABORATORY CONTROL SAMPLE: 895965

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	488	98	80-120	
Arsenic	ug/L	500	487	97	80-120	
Barium	ug/L	500	466	93	80-120	
Beryllium	ug/L	500	476	95	80-120	
Cadmium	ug/L	500	481	96	80-120	
Chromium	ug/L	500	486	97	80-120	
Cobalt	ug/L	500	479	96	80-120	
Copper	ug/L	500	498	100	80-120	
Lead	ug/L	500	481	96	80-120	
Nickel	ug/L	500	482	96	80-120	
Selenium	ug/L	500	486	97	80-120	
Silver	ug/L	250	245	98	80-120	
Thallium	ug/L	500	480	96	80-120	
Tin	ug/L	500	490	98	80-120	
Vanadium	ug/L	500	486	97	80-120	
Zinc	ug/L	500	478	96	80-120	

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

MATRIX SPIKE SAMPLE: 895966

Parameter	Units	92141984005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	493	99	75-125	
Arsenic	ug/L	ND	500	492	98	75-125	
Barium	ug/L	14.4	500	485	94	75-125	
Beryllium	ug/L	ND	500	483	97	75-125	
Cadmium	ug/L	ND	500	483	97	75-125	
Chromium	ug/L	ND	500	489	98	75-125	
Cobalt	ug/L	ND	500	478	96	75-125	
Copper	ug/L	ND	500	498	100	75-125	
Lead	ug/L	ND	500	480	96	75-125	
Nickel	ug/L	ND	500	481	96	75-125	
Selenium	ug/L	ND	500	492	98	75-125	
Silver	ug/L	ND	250	243	97	75-125	
Thallium	ug/L	ND	500	477	95	75-125	
Tin	ug/L	ND	500	498	99	75-125	
Vanadium	ug/L	ND	500	495	99	75-125	
Zinc	ug/L	ND	500	486	97	75-125	

SAMPLE DUPLICATE: 895967

Parameter	Units	92141984006 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	ND	ND		25	
Arsenic	ug/L	ND	ND		25	
Barium	ug/L	32.1	32.6J	1	25	
Beryllium	ug/L	ND	ND		25	
Cadmium	ug/L	ND	ND		25	
Chromium	ug/L	ND	ND		25	
Cobalt	ug/L	ND	ND		25	
Copper	ug/L	ND	ND		25	
Lead	ug/L	ND	ND		25	
Nickel	ug/L	ND	ND		25	
Selenium	ug/L	ND	ND		25	
Silver	ug/L	ND	ND		25	
Thallium	ug/L	ND	ND		25	
Tin	ug/L	ND	ND		25	
Vanadium	ug/L	ND	ND		25	
Zinc	ug/L	18.2	ND		25	

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

QC Batch: MSV/21474 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 92141862021, 92141862022, 92141862023, 92141862024, 92141862025, 92141862026, 92141862027, 92141862028, 92141862029

METHOD BLANK: 891850 Matrix: Water
Associated Lab Samples: 92141862021, 92141862022, 92141862023, 92141862024, 92141862025, 92141862026, 92141862027, 92141862028, 92141862029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	12/17/12 13:39	
1,1,1-Trichloroethane	ug/L	ND	1.0	12/17/12 13:39	
1,1,2,2-Tetrachloroethane	ug/L	ND	3.0	12/17/12 13:39	
1,1,2-Trichloroethane	ug/L	ND	1.0	12/17/12 13:39	
1,1-Dichloroethane	ug/L	ND	5.0	12/17/12 13:39	
1,1-Dichloroethene	ug/L	ND	5.0	12/17/12 13:39	
1,1-Dichloropropene	ug/L	ND	5.0	12/17/12 13:39	
1,2,3-Trichloropropane	ug/L	ND	1.0	12/17/12 13:39	
1,2,4-Trichlorobenzene	ug/L	ND	10.0	12/17/12 13:39	
1,2-Dibromo-3-chloropropane	ug/L	ND	13.0	12/17/12 13:39	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	12/17/12 13:39	
1,2-Dichlorobenzene	ug/L	ND	5.0	12/17/12 13:39	
1,2-Dichloroethane	ug/L	ND	1.0	12/17/12 13:39	
1,2-Dichloropropane	ug/L	ND	1.0	12/17/12 13:39	
1,3-Dichlorobenzene	ug/L	ND	5.0	12/17/12 13:39	
1,3-Dichloropropane	ug/L	ND	1.0	12/17/12 13:39	
1,4-Dichlorobenzene	ug/L	ND	1.0	12/17/12 13:39	
2,2-Dichloropropane	ug/L	ND	15.0	12/17/12 13:39	
2-Butanone (MEK)	ug/L	ND	100	12/17/12 13:39	
2-Hexanone	ug/L	ND	50.0	12/17/12 13:39	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	12/17/12 13:39	
Acetone	ug/L	ND	100	12/17/12 13:39	
Acetonitrile	ug/L	ND	55.0	12/17/12 13:39	
Acrolein	ug/L	ND	53.0	12/17/12 13:39	
Acrylonitrile	ug/L	ND	200	12/17/12 13:39	
Allyl chloride	ug/L	ND	10.0	12/17/12 13:39	
Benzene	ug/L	ND	1.0	12/17/12 13:39	
Bromochloromethane	ug/L	ND	3.0	12/17/12 13:39	
Bromodichloromethane	ug/L	ND	1.0	12/17/12 13:39	
Bromoform	ug/L	ND	3.0	12/17/12 13:39	
Bromomethane	ug/L	ND	10.0	12/17/12 13:39	
Carbon disulfide	ug/L	ND	100	12/17/12 13:39	
Carbon tetrachloride	ug/L	ND	1.0	12/17/12 13:39	
Chlorobenzene	ug/L	ND	3.0	12/17/12 13:39	
Chloroethane	ug/L	ND	10.0	12/17/12 13:39	
Chloroform	ug/L	ND	5.0	12/17/12 13:39	
Chloromethane	ug/L	ND	1.0	12/17/12 13:39	
Chloroprene	ug/L	ND	20.0	12/17/12 13:39	
cis-1,2-Dichloroethene	ug/L	ND	5.0	12/17/12 13:39	
cis-1,3-Dichloropropene	ug/L	ND	1.0	12/17/12 13:39	
Dibromochloromethane	ug/L	ND	3.0	12/17/12 13:39	

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

METHOD BLANK: 891850 Matrix: Water

Associated Lab Samples: 92141862021, 92141862022, 92141862023, 92141862024, 92141862025, 92141862026, 92141862027, 92141862028, 92141862029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	10.0	12/17/12 13:39	
Dichlorodifluoromethane	ug/L	ND	5.0	12/17/12 13:39	
Ethyl methacrylate	ug/L	ND	10.0	12/17/12 13:39	
Ethylbenzene	ug/L	ND	1.0	12/17/12 13:39	
Hexachloro-1,3-butadiene	ug/L	0.72J	10.0	12/17/12 13:39	
Iodomethane	ug/L	ND	10.0	12/17/12 13:39	
Isobutanol	ug/L	ND	100	12/17/12 13:39	
Methacrylonitrile	ug/L	ND	100	12/17/12 13:39	
Methyl methacrylate	ug/L	ND	30.0	12/17/12 13:39	
Methylene Chloride	ug/L	ND	1.0	12/17/12 13:39	
Naphthalene	ug/L	ND	10.0	12/17/12 13:39	
Propionitrile	ug/L	ND	150	12/17/12 13:39	
Styrene	ug/L	ND	1.0	12/17/12 13:39	
Tetrachloroethene	ug/L	ND	1.0	12/17/12 13:39	
Toluene	ug/L	ND	1.0	12/17/12 13:39	
trans-1,2-Dichloroethene	ug/L	ND	5.0	12/17/12 13:39	
trans-1,3-Dichloropropene	ug/L	ND	1.0	12/17/12 13:39	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	12/17/12 13:39	
Trichloroethene	ug/L	ND	1.0	12/17/12 13:39	
Trichlorofluoromethane	ug/L	ND	1.0	12/17/12 13:39	
Vinyl acetate	ug/L	ND	50.0	12/17/12 13:39	
Vinyl chloride	ug/L	ND	1.0	12/17/12 13:39	
Xylene (Total)	ug/L	ND	5.0	12/17/12 13:39	
1,2-Dichloroethane-d4 (S)	%	98	70-130	12/17/12 13:39	
4-Bromofluorobenzene (S)	%	85	70-130	12/17/12 13:39	
Dibromofluoromethane (S)	%	100	70-130	12/17/12 13:39	
Toluene-d8 (S)	%	101	70-130	12/17/12 13:39	

LABORATORY CONTROL SAMPLE: 891851

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.3	101	70-130	
1,1,1-Trichloroethane	ug/L	50	51.6	103	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	50.5	101	70-130	
1,1,2-Trichloroethane	ug/L	50	53.1	106	70-130	
1,1-Dichloroethane	ug/L	50	51.9	104	70-130	
1,1-Dichloroethene	ug/L	50	52.0	104	70-132	
1,1-Dichloropropene	ug/L	50	51.5	103	70-130	
1,2,3-Trichloropropane	ug/L	50	50.2	100	70-130	
1,2,4-Trichlorobenzene	ug/L	50	52.7	105	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	53.3	107	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	52.1	104	70-130	
1,2-Dichlorobenzene	ug/L	50	51.3	103	70-130	
1,2-Dichloroethane	ug/L	50	49.0	98	70-130	

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

LABORATORY CONTROL SAMPLE: 891851

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloropropane	ug/L	50	52.6	105	70-130	
1,3-Dichlorobenzene	ug/L	50	52.8	106	70-130	
1,3-Dichloropropane	ug/L	50	52.9	106	70-130	
1,4-Dichlorobenzene	ug/L	50	50.9	102	70-130	
2,2-Dichloropropane	ug/L	50	53.6	107	58-145	
2-Butanone (MEK)	ug/L	100	101	101	70-145	
2-Hexanone	ug/L	100	118	118	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	100	115	115	70-140	
Acetone	ug/L	100	107	107	50-175	
Acetonitrile	ug/L	500	604	121	70-130	
Acrolein	ug/L	250	276	110	70-130	
Acrylonitrile	ug/L	250	283	113	70-143	
Allyl chloride	ug/L	50	53.7	107	70-130	
Benzene	ug/L	50	52.7	105	70-130	
Bromochloromethane	ug/L	50	53.8	108	70-130	
Bromodichloromethane	ug/L	50	52.8	106	70-130	
Bromoform	ug/L	50	47.6	95	70-130	
Bromomethane	ug/L	50	46.7	93	54-130	
Carbon disulfide	ug/L	50	62.6J	125	70-131	
Carbon tetrachloride	ug/L	50	51.9	104	70-132	
Chlorobenzene	ug/L	50	51.4	103	70-130	
Chloroethane	ug/L	50	59.3	119	64-134	
Chloroform	ug/L	50	52.2	104	70-130	
Chloromethane	ug/L	50	61.1	122	64-130	
Chloroprene	ug/L	50	49.3	99	70-130	
cis-1,2-Dichloroethene	ug/L	50	50.6	101	70-131	
cis-1,3-Dichloropropene	ug/L	50	55.4	111	70-130	
Dibromochloromethane	ug/L	50	56.5	113	70-130	
Dibromomethane	ug/L	50	51.9	104	70-131	
Dichlorodifluoromethane	ug/L	50	61.9	124	56-130	
Ethyl methacrylate	ug/L	50	60.4	121	70-130	
Ethylbenzene	ug/L	50	51.7	103	70-130	
Hexachloro-1,3-butadiene	ug/L	50	54.8	110	70-130	
Iodomethane	ug/L	100	106	106	49-180	
Isobutanol	ug/L	1000	1090	109	70-130	
Methacrylonitrile	ug/L	500	553	111	70-130	
Methyl methacrylate	ug/L	50	60.6	121	70-130	
Methylene Chloride	ug/L	50	54.5	109	63-130	
Naphthalene	ug/L	50	56.5	113	70-138	
Propionitrile	ug/L	500	564	113	70-130	
Styrene	ug/L	50	47.4	95	70-130	
Tetrachloroethene	ug/L	50	51.4	103	70-130	
Toluene	ug/L	50	51.9	104	70-130	
trans-1,2-Dichloroethene	ug/L	50	50.3	101	70-130	
trans-1,3-Dichloropropene	ug/L	50	55.8	112	70-132	
trans-1,4-Dichloro-2-butene	ug/L	50	43.2J	86	70-141	
Trichloroethene	ug/L	50	50.9	102	70-130	
Trichlorofluoromethane	ug/L	50	52.6	105	62-133	

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

LABORATORY CONTROL SAMPLE: 891851

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl acetate	ug/L	100	124	124	66-157	
Vinyl chloride	ug/L	50	54.6	109	69-130	
Xylene (Total)	ug/L	150	156	104	70-130	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Dibromofluoromethane (S)	%			100	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 891852 891853

Parameter	Units	92141862027 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	51.3	49.5	103	99	70-166	4	30	
Benzene	ug/L	2.6	50	50	49.1	49.2	93	93	70-148	0	30	
Chlorobenzene	ug/L	0.56J	50	50	55.8	56.5	110	112	70-146	1	30	
Toluene	ug/L	ND	50	50	55.8	55.1	112	110	70-155	1	30	
Trichloroethene	ug/L	2.4	50	50	56.3	55.1	108	105	69-151	2	30	
1,2-Dichloroethane-d4 (S)	%						101	102	70-130			
4-Bromofluorobenzene (S)	%						85	88	70-130			
Dibromofluoromethane (S)	%						98	99	70-130			
Toluene-d8 (S)	%						95	98	70-130			

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

QC Batch: MSV/21475 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 92141862002, 92141862003, 92141862004, 92141862005, 92141862006, 92141862007, 92141862008, 92141862009, 92141862010

METHOD BLANK: 891855 Matrix: Water
Associated Lab Samples: 92141862002, 92141862003, 92141862004, 92141862005, 92141862006, 92141862007, 92141862008, 92141862009, 92141862010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	12/18/12 12:33	
1,1,1-Trichloroethane	ug/L	ND	1.0	12/18/12 12:33	
1,1,2,2-Tetrachloroethane	ug/L	ND	3.0	12/18/12 12:33	
1,1,2-Trichloroethane	ug/L	ND	1.0	12/18/12 12:33	
1,1-Dichloroethane	ug/L	ND	5.0	12/18/12 12:33	
1,1-Dichloroethene	ug/L	ND	5.0	12/18/12 12:33	
1,1-Dichloropropene	ug/L	ND	5.0	12/18/12 12:33	
1,2,3-Trichloropropane	ug/L	ND	1.0	12/18/12 12:33	
1,2,4-Trichlorobenzene	ug/L	ND	10.0	12/18/12 12:33	
1,2-Dibromo-3-chloropropane	ug/L	ND	13.0	12/18/12 12:33	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	12/18/12 12:33	
1,2-Dichlorobenzene	ug/L	ND	5.0	12/18/12 12:33	
1,2-Dichloroethane	ug/L	ND	1.0	12/18/12 12:33	
1,2-Dichloropropane	ug/L	ND	1.0	12/18/12 12:33	
1,3-Dichlorobenzene	ug/L	ND	5.0	12/18/12 12:33	
1,3-Dichloropropane	ug/L	ND	1.0	12/18/12 12:33	
1,4-Dichlorobenzene	ug/L	ND	1.0	12/18/12 12:33	
2,2-Dichloropropane	ug/L	ND	15.0	12/18/12 12:33	
2-Butanone (MEK)	ug/L	ND	100	12/18/12 12:33	
2-Hexanone	ug/L	ND	50.0	12/18/12 12:33	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	12/18/12 12:33	
Acetone	ug/L	ND	100	12/18/12 12:33	
Acetonitrile	ug/L	ND	55.0	12/18/12 12:33	
Acrolein	ug/L	ND	53.0	12/18/12 12:33	
Acrylonitrile	ug/L	ND	200	12/18/12 12:33	
Allyl chloride	ug/L	ND	10.0	12/18/12 12:33	
Benzene	ug/L	ND	1.0	12/18/12 12:33	
Bromochloromethane	ug/L	ND	3.0	12/18/12 12:33	
Bromodichloromethane	ug/L	ND	1.0	12/18/12 12:33	
Bromoform	ug/L	ND	3.0	12/18/12 12:33	
Bromomethane	ug/L	ND	10.0	12/18/12 12:33	
Carbon disulfide	ug/L	ND	100	12/18/12 12:33	
Carbon tetrachloride	ug/L	ND	1.0	12/18/12 12:33	
Chlorobenzene	ug/L	ND	3.0	12/18/12 12:33	
Chloroethane	ug/L	ND	10.0	12/18/12 12:33	
Chloroform	ug/L	ND	5.0	12/18/12 12:33	
Chloromethane	ug/L	ND	1.0	12/18/12 12:33	
Chloroprene	ug/L	ND	20.0	12/18/12 12:33	
cis-1,2-Dichloroethene	ug/L	ND	5.0	12/18/12 12:33	
cis-1,3-Dichloropropene	ug/L	ND	1.0	12/18/12 12:33	
Dibromochloromethane	ug/L	ND	3.0	12/18/12 12:33	

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

METHOD BLANK: 891855 Matrix: Water

Associated Lab Samples: 92141862002, 92141862003, 92141862004, 92141862005, 92141862006, 92141862007, 92141862008, 92141862009, 92141862010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	10.0	12/18/12 12:33	
Dichlorodifluoromethane	ug/L	ND	5.0	12/18/12 12:33	
Ethyl methacrylate	ug/L	ND	10.0	12/18/12 12:33	
Ethylbenzene	ug/L	ND	1.0	12/18/12 12:33	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	12/18/12 12:33	
Iodomethane	ug/L	ND	10.0	12/18/12 12:33	
Isobutanol	ug/L	ND	100	12/18/12 12:33	
Methacrylonitrile	ug/L	ND	100	12/18/12 12:33	
Methyl methacrylate	ug/L	ND	30.0	12/18/12 12:33	
Methylene Chloride	ug/L	ND	1.0	12/18/12 12:33	
Naphthalene	ug/L	ND	10.0	12/18/12 12:33	
Propionitrile	ug/L	ND	150	12/18/12 12:33	
Styrene	ug/L	ND	1.0	12/18/12 12:33	
Tetrachloroethene	ug/L	ND	1.0	12/18/12 12:33	
Toluene	ug/L	ND	1.0	12/18/12 12:33	
trans-1,2-Dichloroethene	ug/L	ND	5.0	12/18/12 12:33	
trans-1,3-Dichloropropene	ug/L	ND	1.0	12/18/12 12:33	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	12/18/12 12:33	
Trichloroethene	ug/L	ND	1.0	12/18/12 12:33	
Trichlorofluoromethane	ug/L	ND	1.0	12/18/12 12:33	
Vinyl acetate	ug/L	ND	50.0	12/18/12 12:33	
Vinyl chloride	ug/L	ND	1.0	12/18/12 12:33	
Xylene (Total)	ug/L	ND	5.0	12/18/12 12:33	
1,2-Dichloroethane-d4 (S)	%	100	70-130	12/18/12 12:33	
4-Bromofluorobenzene (S)	%	81	70-130	12/18/12 12:33	
Dibromofluoromethane (S)	%	102	70-130	12/18/12 12:33	
Toluene-d8 (S)	%	105	70-130	12/18/12 12:33	

LABORATORY CONTROL SAMPLE: 891856

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	47.7	95	70-130	
1,1,1-Trichloroethane	ug/L	50	46.8	94	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	51.6	103	70-130	
1,1,2-Trichloroethane	ug/L	50	51.3	103	70-130	
1,1-Dichloroethane	ug/L	50	51.0	102	70-130	
1,1-Dichloroethene	ug/L	50	48.6	97	70-132	
1,1-Dichloropropene	ug/L	50	49.4	99	70-130	
1,2,3-Trichloropropane	ug/L	50	47.2	94	70-130	
1,2,4-Trichlorobenzene	ug/L	50	50.6	101	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	57.1	114	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	52.2	104	70-130	
1,2-Dichlorobenzene	ug/L	50	51.3	103	70-130	
1,2-Dichloroethane	ug/L	50	45.9	92	70-130	

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

LABORATORY CONTROL SAMPLE: 891856

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloropropane	ug/L	50	53.5	107	70-130	
1,3-Dichlorobenzene	ug/L	50	51.0	102	70-130	
1,3-Dichloropropane	ug/L	50	55.5	111	70-130	
1,4-Dichlorobenzene	ug/L	50	50.0	100	70-130	
2,2-Dichloropropane	ug/L	50	32.6	65	58-145	
2-Butanone (MEK)	ug/L	100	114	114	70-145	
2-Hexanone	ug/L	100	120	120	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	100	112	112	70-140	
Acetone	ug/L	100	110	110	50-175	
Acetonitrile	ug/L	500	625	125	70-130	
Acrolein	ug/L	250	240	96	70-130	
Acrylonitrile	ug/L	250	289	116	70-143	
Allyl chloride	ug/L	50	50.3	101	70-130	
Benzene	ug/L	50	52.6	105	70-130	
Bromochloromethane	ug/L	50	50.7	101	70-130	
Bromodichloromethane	ug/L	50	49.4	99	70-130	
Bromoform	ug/L	50	46.4	93	70-130	
Bromomethane	ug/L	50	44.7	89	54-130	
Carbon disulfide	ug/L	50	59.7J	119	70-131	
Carbon tetrachloride	ug/L	50	44.8	90	70-132	
Chlorobenzene	ug/L	50	51.4	103	70-130	
Chloroethane	ug/L	50	53.8	108	64-134	
Chloroform	ug/L	50	48.1	96	70-130	
Chloromethane	ug/L	50	63.8	128	64-130	
Chloroprene	ug/L	50	44.1	88	70-130	
cis-1,2-Dichloroethene	ug/L	50	50.2	100	70-131	
cis-1,3-Dichloropropene	ug/L	50	50.2	100	70-130	
Dibromochloromethane	ug/L	50	52.6	105	70-130	
Dibromomethane	ug/L	50	48.1	96	70-131	
Dichlorodifluoromethane	ug/L	50	56.0	112	56-130	
Ethyl methacrylate	ug/L	50	60.5	121	70-130	
Ethylbenzene	ug/L	50	50.9	102	70-130	
Hexachloro-1,3-butadiene	ug/L	50	48.1	96	70-130	
Iodomethane	ug/L	100	99.3	99	49-180	
Isobutanol	ug/L	1000	1050	105	70-130	
Methacrylonitrile	ug/L	500	552	110	70-130	
Methyl methacrylate	ug/L	50	59.1	118	70-130	
Methylene Chloride	ug/L	50	54.1	108	63-130	
Naphthalene	ug/L	50	56.7	113	70-138	
Propionitrile	ug/L	500	562	112	70-130	
Styrene	ug/L	50	46.1	92	70-130	
Tetrachloroethene	ug/L	50	48.4	97	70-130	
Toluene	ug/L	50	51.1	102	70-130	
trans-1,2-Dichloroethene	ug/L	50	49.1	98	70-130	
trans-1,3-Dichloropropene	ug/L	50	48.6	97	70-132	
trans-1,4-Dichloro-2-butene	ug/L	50	39.3J	79	70-141	
Trichloroethene	ug/L	50	47.5	95	70-130	
Trichlorofluoromethane	ug/L	50	47.3	95	62-133	

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

LABORATORY CONTROL SAMPLE: 891856

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl acetate	ug/L	100	112	112	66-157	
Vinyl chloride	ug/L	50	53.2	106	69-130	
Xylene (Total)	ug/L	150	152	101	70-130	
1,2-Dichloroethane-d4 (S)	%			91	70-130	
4-Bromofluorobenzene (S)	%			91	70-130	
Dibromofluoromethane (S)	%			96	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 893391 893392

Parameter	Units	92141862009 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	37.8	41.4	76	83	70-166	9	30	
Benzene	ug/L	0.66J	50	50	34.9	39.5	68	78	70-148	12	30	M0
Chlorobenzene	ug/L	ND	50	50	42.1	47.5	84	95	70-146	12	30	
Toluene	ug/L	ND	50	50	41.2	46.3	82	93	70-155	11	30	
Trichloroethene	ug/L	ND	50	50	39.4	44.4	78	89	69-151	12	30	
1,2-Dichloroethane-d4 (S)	%						102	101	70-130			
4-Bromofluorobenzene (S)	%						88	86	70-130			
Dibromofluoromethane (S)	%						100	99	70-130			
Toluene-d8 (S)	%						96	96	70-130			

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

QC Batch: MSV/21476 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 92141862001, 92141862011, 92141862012, 92141862013, 92141862014

METHOD BLANK: 891859 Matrix: Water
Associated Lab Samples: 92141862001, 92141862011, 92141862012, 92141862013, 92141862014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	12/19/12 16:27	
1,1,1-Trichloroethane	ug/L	ND	1.0	12/19/12 16:27	
1,1,2,2-Tetrachloroethane	ug/L	ND	3.0	12/19/12 16:27	
1,1,2-Trichloroethane	ug/L	ND	1.0	12/19/12 16:27	
1,1-Dichloroethane	ug/L	ND	5.0	12/19/12 16:27	
1,1-Dichloroethene	ug/L	ND	5.0	12/19/12 16:27	
1,1-Dichloropropene	ug/L	ND	5.0	12/19/12 16:27	
1,2,3-Trichloropropane	ug/L	ND	1.0	12/19/12 16:27	
1,2,4-Trichlorobenzene	ug/L	ND	10.0	12/19/12 16:27	
1,2-Dibromo-3-chloropropane	ug/L	ND	13.0	12/19/12 16:27	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	12/19/12 16:27	
1,2-Dichlorobenzene	ug/L	ND	5.0	12/19/12 16:27	
1,2-Dichloroethane	ug/L	ND	1.0	12/19/12 16:27	
1,2-Dichloropropane	ug/L	ND	1.0	12/19/12 16:27	
1,3-Dichlorobenzene	ug/L	ND	5.0	12/19/12 16:27	
1,3-Dichloropropane	ug/L	ND	1.0	12/19/12 16:27	
1,4-Dichlorobenzene	ug/L	ND	1.0	12/19/12 16:27	
2,2-Dichloropropane	ug/L	ND	15.0	12/19/12 16:27	
2-Butanone (MEK)	ug/L	ND	100	12/19/12 16:27	
2-Hexanone	ug/L	ND	50.0	12/19/12 16:27	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	12/19/12 16:27	
Acetone	ug/L	ND	100	12/19/12 16:27	
Acetonitrile	ug/L	ND	55.0	12/19/12 16:27	
Acrolein	ug/L	ND	53.0	12/19/12 16:27	
Acrylonitrile	ug/L	ND	200	12/19/12 16:27	
Allyl chloride	ug/L	ND	10.0	12/19/12 16:27	
Benzene	ug/L	ND	1.0	12/19/12 16:27	
Bromochloromethane	ug/L	ND	3.0	12/19/12 16:27	
Bromodichloromethane	ug/L	ND	1.0	12/19/12 16:27	
Bromoform	ug/L	ND	3.0	12/19/12 16:27	
Bromomethane	ug/L	ND	10.0	12/19/12 16:27	
Carbon disulfide	ug/L	ND	100	12/19/12 16:27	
Carbon tetrachloride	ug/L	ND	1.0	12/19/12 16:27	
Chlorobenzene	ug/L	ND	3.0	12/19/12 16:27	
Chloroethane	ug/L	ND	10.0	12/19/12 16:27	
Chloroform	ug/L	ND	5.0	12/19/12 16:27	
Chloromethane	ug/L	0.20J	1.0	12/19/12 16:27	
Chloroprene	ug/L	ND	20.0	12/19/12 16:27	
cis-1,2-Dichloroethene	ug/L	ND	5.0	12/19/12 16:27	
cis-1,3-Dichloropropene	ug/L	ND	1.0	12/19/12 16:27	
Dibromochloromethane	ug/L	ND	3.0	12/19/12 16:27	
Dibromomethane	ug/L	ND	10.0	12/19/12 16:27	
Dichlorodifluoromethane	ug/L	ND	5.0	12/19/12 16:27	

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

METHOD BLANK: 891859 Matrix: Water

Associated Lab Samples: 92141862001, 92141862011, 92141862012, 92141862013, 92141862014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethyl methacrylate	ug/L	ND	10.0	12/19/12 16:27	
Ethylbenzene	ug/L	ND	1.0	12/19/12 16:27	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	12/19/12 16:27	
Iodomethane	ug/L	ND	10.0	12/19/12 16:27	
Isobutanol	ug/L	ND	100	12/19/12 16:27	
Methacrylonitrile	ug/L	ND	100	12/19/12 16:27	
Methyl methacrylate	ug/L	ND	30.0	12/19/12 16:27	
Methylene Chloride	ug/L	ND	1.0	12/19/12 16:27	
Naphthalene	ug/L	ND	10.0	12/19/12 16:27	
Propionitrile	ug/L	ND	150	12/19/12 16:27	
Styrene	ug/L	ND	1.0	12/19/12 16:27	
Tetrachloroethene	ug/L	ND	1.0	12/19/12 16:27	
Toluene	ug/L	ND	1.0	12/19/12 16:27	
trans-1,2-Dichloroethene	ug/L	ND	5.0	12/19/12 16:27	
trans-1,3-Dichloropropene	ug/L	ND	1.0	12/19/12 16:27	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	12/19/12 16:27	
Trichloroethene	ug/L	ND	1.0	12/19/12 16:27	
Trichlorofluoromethane	ug/L	ND	1.0	12/19/12 16:27	
Vinyl acetate	ug/L	ND	50.0	12/19/12 16:27	
Vinyl chloride	ug/L	ND	1.0	12/19/12 16:27	
Xylene (Total)	ug/L	ND	5.0	12/19/12 16:27	
1,2-Dichloroethane-d4 (S)	%	103	70-130	12/19/12 16:27	
4-Bromofluorobenzene (S)	%	86	70-130	12/19/12 16:27	
Dibromofluoromethane (S)	%	101	70-130	12/19/12 16:27	
Toluene-d8 (S)	%	100	70-130	12/19/12 16:27	

LABORATORY CONTROL SAMPLE: 891860

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.2	102	70-130	
1,1,1-Trichloroethane	ug/L	50	50.8	102	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	50.8	102	70-130	
1,1,2-Trichloroethane	ug/L	50	51.2	102	70-130	
1,1-Dichloroethane	ug/L	50	49.1	98	70-130	
1,1-Dichloroethene	ug/L	50	48.8	98	70-132	
1,1-Dichloropropene	ug/L	50	51.1	102	70-130	
1,2,3-Trichloropropane	ug/L	50	50.3	101	70-130	
1,2,4-Trichlorobenzene	ug/L	50	54.2	108	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	49.0	98	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	52.5	105	70-130	
1,2-Dichlorobenzene	ug/L	50	50.6	101	70-130	
1,2-Dichloroethane	ug/L	50	47.3	95	70-130	
1,2-Dichloropropane	ug/L	50	51.2	102	70-130	
1,3-Dichlorobenzene	ug/L	50	51.7	103	70-130	
1,3-Dichloropropane	ug/L	50	51.4	103	70-130	

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

LABORATORY CONTROL SAMPLE: 891860

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	51.0	102	70-130	
2,2-Dichloropropane	ug/L	50	48.4	97	58-145	
2-Butanone (MEK)	ug/L	100	105	105	70-145	
2-Hexanone	ug/L	100	106	106	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	100	110	110	70-140	
Acetone	ug/L	100	101	101	50-175	
Acetonitrile	ug/L	500	537	107	70-130	
Acrolein	ug/L	250	290	116	70-130	
Acrylonitrile	ug/L	250	254	102	70-143	
Allyl chloride	ug/L	50	49.9	100	70-130	
Benzene	ug/L	50	50.8	102	70-130	
Bromochloromethane	ug/L	50	52.0	104	70-130	
Bromodichloromethane	ug/L	50	52.3	105	70-130	
Bromoform	ug/L	50	47.5	95	70-130	
Bromomethane	ug/L	50	52.6	105	54-130	
Carbon disulfide	ug/L	50	59.0J	118	70-131	
Carbon tetrachloride	ug/L	50	52.2	104	70-132	
Chlorobenzene	ug/L	50	51.1	102	70-130	
Chloroethane	ug/L	50	57.3	115	64-134	
Chloroform	ug/L	50	49.2	98	70-130	
Chloromethane	ug/L	50	54.4	109	64-130	
Chloroprene	ug/L	50	49.1	98	70-130	
cis-1,2-Dichloroethene	ug/L	50	48.5	97	70-131	
cis-1,3-Dichloropropene	ug/L	50	54.2	108	70-130	
Dibromochloromethane	ug/L	50	55.2	110	70-130	
Dibromomethane	ug/L	50	49.6	99	70-131	
Dichlorodifluoromethane	ug/L	50	53.5	107	56-130	
Ethyl methacrylate	ug/L	50	55.2	110	70-130	
Ethylbenzene	ug/L	50	51.8	104	70-130	
Hexachloro-1,3-butadiene	ug/L	50	56.4	113	70-130	
Iodomethane	ug/L	100	98.9	99	49-180	
Isobutanol	ug/L	1000	1160	116	70-130	
Methacrylonitrile	ug/L	500	507	101	70-130	
Methyl methacrylate	ug/L	50	52.2	104	70-130	
Methylene Chloride	ug/L	50	51.8	104	63-130	
Naphthalene	ug/L	50	53.8	108	70-138	
Propionitrile	ug/L	500	525	105	70-130	
Styrene	ug/L	50	49.8	100	70-130	
Tetrachloroethene	ug/L	50	51.2	102	70-130	
Toluene	ug/L	50	50.6	101	70-130	
trans-1,2-Dichloroethene	ug/L	50	49.4	99	70-130	
trans-1,3-Dichloropropene	ug/L	50	53.7	107	70-132	
trans-1,4-Dichloro-2-butene	ug/L	50	51.1J	102	70-141	
Trichloroethene	ug/L	50	49.4	99	70-130	
Trichlorofluoromethane	ug/L	50	45.1	90	62-133	
Vinyl acetate	ug/L	100	118	118	66-157	
Vinyl chloride	ug/L	50	47.2	94	69-130	
Xylene (Total)	ug/L	150	160	106	70-130	

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

LABORATORY CONTROL SAMPLE: 891860

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			99	70-130	
Toluene-d8 (S)	%			100	70-130	

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

QC Batch: MSV/21492
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 92141862030

METHOD BLANK: 892631
Matrix: Water
Associated Lab Samples: 92141862030

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	12/20/12 13:38	
1,1,1-Trichloroethane	ug/L	ND	1.0	12/20/12 13:38	
1,1,2,2-Tetrachloroethane	ug/L	ND	3.0	12/20/12 13:38	
1,1,2-Trichloroethane	ug/L	ND	1.0	12/20/12 13:38	
1,1-Dichloroethane	ug/L	ND	5.0	12/20/12 13:38	
1,1-Dichloroethene	ug/L	ND	5.0	12/20/12 13:38	
1,1-Dichloropropene	ug/L	ND	5.0	12/20/12 13:38	
1,2,3-Trichloropropane	ug/L	ND	1.0	12/20/12 13:38	
1,2,4-Trichlorobenzene	ug/L	ND	10.0	12/20/12 13:38	
1,2-Dibromo-3-chloropropane	ug/L	ND	13.0	12/20/12 13:38	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	12/20/12 13:38	
1,2-Dichlorobenzene	ug/L	ND	5.0	12/20/12 13:38	
1,2-Dichloroethane	ug/L	ND	1.0	12/20/12 13:38	
1,2-Dichloropropane	ug/L	ND	1.0	12/20/12 13:38	
1,3-Dichlorobenzene	ug/L	ND	5.0	12/20/12 13:38	
1,3-Dichloropropane	ug/L	ND	1.0	12/20/12 13:38	
1,4-Dichlorobenzene	ug/L	ND	1.0	12/20/12 13:38	
2,2-Dichloropropane	ug/L	ND	15.0	12/20/12 13:38	
2-Butanone (MEK)	ug/L	ND	100	12/20/12 13:38	
2-Hexanone	ug/L	ND	50.0	12/20/12 13:38	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	12/20/12 13:38	
Acetone	ug/L	ND	100	12/20/12 13:38	
Acetonitrile	ug/L	ND	55.0	12/20/12 13:38	
Acrolein	ug/L	ND	53.0	12/20/12 13:38	
Acrylonitrile	ug/L	ND	200	12/20/12 13:38	
Allyl chloride	ug/L	ND	10.0	12/20/12 13:38	
Benzene	ug/L	ND	1.0	12/20/12 13:38	
Bromochloromethane	ug/L	ND	3.0	12/20/12 13:38	
Bromodichloromethane	ug/L	ND	1.0	12/20/12 13:38	
Bromoform	ug/L	ND	3.0	12/20/12 13:38	
Bromomethane	ug/L	ND	10.0	12/20/12 13:38	
Carbon disulfide	ug/L	ND	100	12/20/12 13:38	
Carbon tetrachloride	ug/L	ND	1.0	12/20/12 13:38	
Chlorobenzene	ug/L	ND	3.0	12/20/12 13:38	
Chloroethane	ug/L	ND	10.0	12/20/12 13:38	
Chloroform	ug/L	ND	5.0	12/20/12 13:38	
Chloromethane	ug/L	ND	1.0	12/20/12 13:38	
Chloroprene	ug/L	ND	20.0	12/20/12 13:38	
cis-1,2-Dichloroethene	ug/L	ND	5.0	12/20/12 13:38	
cis-1,3-Dichloropropene	ug/L	ND	1.0	12/20/12 13:38	
Dibromochloromethane	ug/L	ND	3.0	12/20/12 13:38	
Dibromomethane	ug/L	ND	10.0	12/20/12 13:38	
Dichlorodifluoromethane	ug/L	ND	5.0	12/20/12 13:38	

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

METHOD BLANK: 892631 Matrix: Water

Associated Lab Samples: 92141862030

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethyl methacrylate	ug/L	ND	10.0	12/20/12 13:38	
Ethylbenzene	ug/L	ND	1.0	12/20/12 13:38	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	12/20/12 13:38	
Iodomethane	ug/L	ND	10.0	12/20/12 13:38	
Isobutanol	ug/L	ND	100	12/20/12 13:38	
Methacrylonitrile	ug/L	ND	100	12/20/12 13:38	
Methyl methacrylate	ug/L	ND	30.0	12/20/12 13:38	
Methylene Chloride	ug/L	ND	1.0	12/20/12 13:38	
Naphthalene	ug/L	ND	10.0	12/20/12 13:38	
Propionitrile	ug/L	ND	150	12/20/12 13:38	
Styrene	ug/L	ND	1.0	12/20/12 13:38	
Tetrachloroethene	ug/L	ND	1.0	12/20/12 13:38	
Toluene	ug/L	ND	1.0	12/20/12 13:38	
trans-1,2-Dichloroethene	ug/L	ND	5.0	12/20/12 13:38	
trans-1,3-Dichloropropene	ug/L	ND	1.0	12/20/12 13:38	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	12/20/12 13:38	
Trichloroethene	ug/L	ND	1.0	12/20/12 13:38	
Trichlorofluoromethane	ug/L	ND	1.0	12/20/12 13:38	
Vinyl acetate	ug/L	ND	50.0	12/20/12 13:38	
Vinyl chloride	ug/L	ND	1.0	12/20/12 13:38	
Xylene (Total)	ug/L	ND	5.0	12/20/12 13:38	
1,2-Dichloroethane-d4 (S)	%	107	70-130	12/20/12 13:38	
4-Bromofluorobenzene (S)	%	85	70-130	12/20/12 13:38	
Dibromofluoromethane (S)	%	103	70-130	12/20/12 13:38	
Toluene-d8 (S)	%	102	70-130	12/20/12 13:38	

LABORATORY CONTROL SAMPLE: 892632

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.4	103	70-130	
1,1,1-Trichloroethane	ug/L	50	51.8	104	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	49.9	100	70-130	
1,1,2-Trichloroethane	ug/L	50	52.5	105	70-130	
1,1-Dichloroethane	ug/L	50	51.5	103	70-130	
1,1-Dichloroethene	ug/L	50	49.4	99	70-132	
1,1-Dichloropropene	ug/L	50	51.4	103	70-130	
1,2,3-Trichloropropane	ug/L	50	49.2	98	70-130	
1,2,4-Trichlorobenzene	ug/L	50	53.8	108	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	50.2	100	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	53.9	108	70-130	
1,2-Dichlorobenzene	ug/L	50	51.9	104	70-130	
1,2-Dichloroethane	ug/L	50	48.9	98	70-130	
1,2-Dichloropropane	ug/L	50	53.4	107	70-130	
1,3-Dichlorobenzene	ug/L	50	52.4	105	70-130	
1,3-Dichloropropane	ug/L	50	51.8	104	70-130	

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

LABORATORY CONTROL SAMPLE: 892632

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	51.5	103	70-130	
2,2-Dichloropropane	ug/L	50	39.3	79	58-145	
2-Butanone (MEK)	ug/L	100	112	112	70-145	
2-Hexanone	ug/L	100	108	108	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	100	113	113	70-140	
Acetone	ug/L	100	103	103	50-175	
Acetonitrile	ug/L	500	499	100	70-130	
Acrolein	ug/L	250	266	107	70-130	
Acrylonitrile	ug/L	250	261	104	70-143	
Allyl chloride	ug/L	50	49.2	98	70-130	
Benzene	ug/L	50	52.5	105	70-130	
Bromochloromethane	ug/L	50	52.8	106	70-130	
Bromodichloromethane	ug/L	50	53.9	108	70-130	
Bromoform	ug/L	50	46.7	93	70-130	
Bromomethane	ug/L	50	53.9	108	54-130	
Carbon disulfide	ug/L	50	58.0J	116	70-131	
Carbon tetrachloride	ug/L	50	53.1	106	70-132	
Chlorobenzene	ug/L	50	51.8	104	70-130	
Chloroethane	ug/L	50	61.8	124	64-134	
Chloroform	ug/L	50	50.8	102	70-130	
Chloromethane	ug/L	50	52.8	106	64-130	
Chloroprene	ug/L	50	50.6	101	70-130	
cis-1,2-Dichloroethene	ug/L	50	49.6	99	70-131	
cis-1,3-Dichloropropene	ug/L	50	53.4	107	70-130	
Dibromochloromethane	ug/L	50	55.5	111	70-130	
Dibromomethane	ug/L	50	51.9	104	70-131	
Dichlorodifluoromethane	ug/L	50	50.7	101	56-130	
Ethyl methacrylate	ug/L	50	56.5	113	70-130	
Ethylbenzene	ug/L	50	52.3	105	70-130	
Hexachloro-1,3-butadiene	ug/L	50	52.0	104	70-130	
Iodomethane	ug/L	100	106	106	49-180	
Isobutanol	ug/L	1000	1090	109	70-130	
Methacrylonitrile	ug/L	500	532	106	70-130	
Methyl methacrylate	ug/L	50	53.0	106	70-130	
Methylene Chloride	ug/L	50	52.6	105	63-130	
Naphthalene	ug/L	50	55.3	111	70-138	
Propionitrile	ug/L	500	516	103	70-130	
Styrene	ug/L	50	49.6	99	70-130	
Tetrachloroethene	ug/L	50	51.3	103	70-130	
Toluene	ug/L	50	52.1	104	70-130	
trans-1,2-Dichloroethene	ug/L	50	49.5	99	70-130	
trans-1,3-Dichloropropene	ug/L	50	53.2	106	70-132	
trans-1,4-Dichloro-2-butene	ug/L	50	46.8J	94	70-141	
Trichloroethene	ug/L	50	50.5	101	70-130	
Trichlorofluoromethane	ug/L	50	45.5	91	62-133	
Vinyl acetate	ug/L	100	117	117	66-157	
Vinyl chloride	ug/L	50	48.5	97	69-130	
Xylene (Total)	ug/L	150	161	107	70-130	

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

LABORATORY CONTROL SAMPLE: 892632

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Dibromofluoromethane (S)	%			102	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 892633 892634

Parameter	Units	92141878003 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	49.7	47.9	99	96	70-166	4	30	
Benzene	ug/L	ND	50	50	46.9	46.1	94	92	70-148	2	30	
Chlorobenzene	ug/L	ND	50	50	55.3	55.1	111	110	70-146	1	30	
Toluene	ug/L	ND	50	50	55.2	54.1	110	108	70-155	2	30	
Trichloroethene	ug/L	ND	50	50	53.2	51.1	106	102	69-151	4	30	
1,2-Dichloroethane-d4 (S)	%						102	102	70-130			
4-Bromofluorobenzene (S)	%						85	84	70-130			
Dibromofluoromethane (S)	%						100	101	70-130			
Toluene-d8 (S)	%						97	96	70-130			

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

QC Batch: MSV/21534 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 92141862015, 92141862016, 92141862017, 92141862018, 92141862019, 92141862020

METHOD BLANK: 895219 Matrix: Water
Associated Lab Samples: 92141862015, 92141862016, 92141862017, 92141862018, 92141862019, 92141862020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	12/21/12 12:09	
1,1,1-Trichloroethane	ug/L	ND	1.0	12/21/12 12:09	
1,1,2,2-Tetrachloroethane	ug/L	ND	3.0	12/21/12 12:09	
1,1,2-Trichloroethane	ug/L	ND	1.0	12/21/12 12:09	
1,1-Dichloroethane	ug/L	ND	5.0	12/21/12 12:09	
1,1-Dichloroethene	ug/L	ND	5.0	12/21/12 12:09	
1,1-Dichloropropene	ug/L	ND	5.0	12/21/12 12:09	
1,2,3-Trichloropropane	ug/L	ND	1.0	12/21/12 12:09	
1,2,4-Trichlorobenzene	ug/L	ND	10.0	12/21/12 12:09	
1,2-Dibromo-3-chloropropane	ug/L	ND	13.0	12/21/12 12:09	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	12/21/12 12:09	
1,2-Dichlorobenzene	ug/L	ND	5.0	12/21/12 12:09	
1,2-Dichloroethane	ug/L	ND	1.0	12/21/12 12:09	
1,2-Dichloropropane	ug/L	ND	1.0	12/21/12 12:09	
1,3-Dichlorobenzene	ug/L	ND	5.0	12/21/12 12:09	
1,3-Dichloropropane	ug/L	ND	1.0	12/21/12 12:09	
1,4-Dichlorobenzene	ug/L	ND	1.0	12/21/12 12:09	
2,2-Dichloropropane	ug/L	ND	15.0	12/21/12 12:09	
2-Butanone (MEK)	ug/L	ND	100	12/21/12 12:09	
2-Hexanone	ug/L	ND	50.0	12/21/12 12:09	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	12/21/12 12:09	
Acetone	ug/L	ND	100	12/21/12 12:09	
Acetonitrile	ug/L	ND	55.0	12/21/12 12:09	
Acrolein	ug/L	ND	53.0	12/21/12 12:09	
Acrylonitrile	ug/L	ND	200	12/21/12 12:09	
Allyl chloride	ug/L	ND	10.0	12/21/12 12:09	
Benzene	ug/L	ND	1.0	12/21/12 12:09	
Bromochloromethane	ug/L	ND	3.0	12/21/12 12:09	
Bromodichloromethane	ug/L	ND	1.0	12/21/12 12:09	
Bromoform	ug/L	ND	3.0	12/21/12 12:09	
Bromomethane	ug/L	ND	10.0	12/21/12 12:09	
Carbon disulfide	ug/L	ND	100	12/21/12 12:09	
Carbon tetrachloride	ug/L	ND	1.0	12/21/12 12:09	
Chlorobenzene	ug/L	ND	3.0	12/21/12 12:09	
Chloroethane	ug/L	ND	10.0	12/21/12 12:09	
Chloroform	ug/L	ND	5.0	12/21/12 12:09	
Chloromethane	ug/L	ND	1.0	12/21/12 12:09	
Chloroprene	ug/L	ND	20.0	12/21/12 12:09	
cis-1,2-Dichloroethene	ug/L	ND	5.0	12/21/12 12:09	
cis-1,3-Dichloropropene	ug/L	ND	1.0	12/21/12 12:09	
Dibromochloromethane	ug/L	ND	3.0	12/21/12 12:09	
Dibromomethane	ug/L	ND	10.0	12/21/12 12:09	
Dichlorodifluoromethane	ug/L	ND	5.0	12/21/12 12:09	

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

METHOD BLANK: 895219 Matrix: Water

Associated Lab Samples: 92141862015, 92141862016, 92141862017, 92141862018, 92141862019, 92141862020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethyl methacrylate	ug/L	ND	10.0	12/21/12 12:09	
Ethylbenzene	ug/L	ND	1.0	12/21/12 12:09	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	12/21/12 12:09	
Iodomethane	ug/L	ND	10.0	12/21/12 12:09	
Isobutanol	ug/L	ND	100	12/21/12 12:09	
Methacrylonitrile	ug/L	ND	100	12/21/12 12:09	
Methyl methacrylate	ug/L	ND	30.0	12/21/12 12:09	
Methylene Chloride	ug/L	ND	1.0	12/21/12 12:09	
Naphthalene	ug/L	ND	10.0	12/21/12 12:09	
Propionitrile	ug/L	ND	150	12/21/12 12:09	
Styrene	ug/L	ND	1.0	12/21/12 12:09	
Tetrachloroethene	ug/L	ND	1.0	12/21/12 12:09	
Toluene	ug/L	ND	1.0	12/21/12 12:09	
trans-1,2-Dichloroethene	ug/L	ND	5.0	12/21/12 12:09	
trans-1,3-Dichloropropene	ug/L	ND	1.0	12/21/12 12:09	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	12/21/12 12:09	
Trichloroethene	ug/L	ND	1.0	12/21/12 12:09	
Trichlorofluoromethane	ug/L	ND	1.0	12/21/12 12:09	
Vinyl acetate	ug/L	ND	50.0	12/21/12 12:09	
Vinyl chloride	ug/L	ND	1.0	12/21/12 12:09	
Xylene (Total)	ug/L	ND	5.0	12/21/12 12:09	
1,2-Dichloroethane-d4 (S)	%	107	70-130	12/21/12 12:09	
4-Bromofluorobenzene (S)	%	85	70-130	12/21/12 12:09	
Dibromofluoromethane (S)	%	104	70-130	12/21/12 12:09	
Toluene-d8 (S)	%	100	70-130	12/21/12 12:09	

LABORATORY CONTROL SAMPLE: 895220

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.6	105	70-130	
1,1,1-Trichloroethane	ug/L	50	52.8	106	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	50.5	101	70-130	
1,1,2-Trichloroethane	ug/L	50	51.8	104	70-130	
1,1-Dichloroethane	ug/L	50	51.9	104	70-130	
1,1-Dichloroethene	ug/L	50	51.1	102	70-132	
1,1-Dichloropropene	ug/L	50	52.7	105	70-130	
1,2,3-Trichloropropane	ug/L	50	50.2	100	70-130	
1,2,4-Trichlorobenzene	ug/L	50	52.3	105	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	48.0	96	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	54.3	109	70-130	
1,2-Dichlorobenzene	ug/L	50	50.8	102	70-130	
1,2-Dichloroethane	ug/L	50	49.5	99	70-130	
1,2-Dichloropropane	ug/L	50	52.9	106	70-130	
1,3-Dichlorobenzene	ug/L	50	51.3	103	70-130	
1,3-Dichloropropane	ug/L	50	52.8	106	70-130	

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

LABORATORY CONTROL SAMPLE: 895220

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	50.5	101	70-130	
2,2-Dichloropropane	ug/L	50	43.9	88	58-145	
2-Butanone (MEK)	ug/L	100	112	112	70-145	
2-Hexanone	ug/L	100	110	110	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	100	112	112	70-140	
Acetone	ug/L	100	105	105	50-175	
Acetonitrile	ug/L	500	518	104	70-130	
Acrolein	ug/L	250	284	114	70-130	
Acrylonitrile	ug/L	250	268	107	70-143	
Allyl chloride	ug/L	50	51.2	102	70-130	
Benzene	ug/L	50	52.4	105	70-130	
Bromochloromethane	ug/L	50	53.2	106	70-130	
Bromodichloromethane	ug/L	50	53.7	107	70-130	
Bromoform	ug/L	50	46.0	92	70-130	
Bromomethane	ug/L	50	54.9	110	54-130	
Carbon disulfide	ug/L	50	60.3J	121	70-131	
Carbon tetrachloride	ug/L	50	53.4	107	70-132	
Chlorobenzene	ug/L	50	52.6	105	70-130	
Chloroethane	ug/L	50	61.6	123	64-134	
Chloroform	ug/L	50	51.2	102	70-130	
Chloromethane	ug/L	50	56.6	113	64-130	
Chloroprene	ug/L	50	49.8	100	70-130	
cis-1,2-Dichloroethene	ug/L	50	50.5	101	70-131	
cis-1,3-Dichloropropene	ug/L	50	53.8	108	70-130	
Dibromochloromethane	ug/L	50	56.2	112	70-130	
Dibromomethane	ug/L	50	50.5	101	70-131	
Dichlorodifluoromethane	ug/L	50	52.0	104	56-130	
Ethyl methacrylate	ug/L	50	57.0	114	70-130	
Ethylbenzene	ug/L	50	53.6	107	70-130	
Hexachloro-1,3-butadiene	ug/L	50	52.3	105	70-130	
Iodomethane	ug/L	100	112	112	49-180	
Isobutanol	ug/L	1000	1110	111	70-130	
Methacrylonitrile	ug/L	500	536	107	70-130	
Methyl methacrylate	ug/L	50	53.2	106	70-130	
Methylene Chloride	ug/L	50	57.3	115	63-130	
Naphthalene	ug/L	50	54.3	109	70-138	
Propionitrile	ug/L	500	525	105	70-130	
Styrene	ug/L	50	50.6	101	70-130	
Tetrachloroethene	ug/L	50	52.6	105	70-130	
Toluene	ug/L	50	51.8	104	70-130	
trans-1,2-Dichloroethene	ug/L	50	50.9	102	70-130	
trans-1,3-Dichloropropene	ug/L	50	53.0	106	70-132	
trans-1,4-Dichloro-2-butene	ug/L	50	49.7J	99	70-141	
Trichloroethene	ug/L	50	51.0	102	70-130	
Trichlorofluoromethane	ug/L	50	46.6	93	62-133	
Vinyl acetate	ug/L	100	120	120	66-157	
Vinyl chloride	ug/L	50	49.2	98	69-130	
Xylene (Total)	ug/L	150	164	109	70-130	

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

LABORATORY CONTROL SAMPLE: 895220

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Dibromofluoromethane (S)	%			102	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 895221 895222

Parameter	Units	92142546004 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	0.57J	50	50	54.6	49.3	108	97	70-166	10	30	
Benzene	ug/L	2.0	50	50	49.3	45.3	95	87	70-148	9	30	
Chlorobenzene	ug/L	0.25J	50	50	56.6	50.9	113	101	70-146	11	30	
Toluene	ug/L	ND	50	50	54.9	50.9	110	102	70-155	8	30	
Trichloroethene	ug/L	2.4	50	50	56.6	51.7	108	99	69-151	9	30	
1,2-Dichloroethane-d4 (S)	%						101	102	70-130			
4-Bromofluorobenzene (S)	%						87	85	70-130			
Dibromofluoromethane (S)	%						100	100	70-130			
Toluene-d8 (S)	%						97	99	70-130			

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

QC Batch: WET/23585 — Analysis Method: SM 2320B
QC Batch Method: SM 2320B — Analysis Description: 2320B Alkalinity
Associated Lab Samples: 92141862016, 92141862017, 92141862018, 92141862019, 92141862020, 92141862021

METHOD BLANK: 895554 — Matrix: Water
Associated Lab Samples: 92141862016, 92141862017, 92141862018, 92141862019, 92141862020, 92141862021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	ug/L	ND	5000	12/21/12 17:40	

LABORATORY CONTROL SAMPLE: 895555

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	ug/L	50000	45300	91	90-110	

MATRIX SPIKE SAMPLE: 895557

Parameter	Units	92141713006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	ug/L	152000	50000	188000	73	75-125	M1

MATRIX SPIKE SAMPLE: 895559

Parameter	Units	92141862016 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	ug/L	ND	50000	44700	89	75-125	

SAMPLE DUPLICATE: 895556

Parameter	Units	92141713006 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	ug/L	152000	145000	4	20	

SAMPLE DUPLICATE: 895558

Parameter	Units	92141862016 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

QC Batch: WET/23478
QC Batch Method: SM 4500-S2D
Analysis Method: SM 4500-S2D
Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 92141862007

METHOD BLANK: 890606
Matrix: Water
Associated Lab Samples: 92141862007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	ug/L	ND	1000	12/14/12 17:50	

LABORATORY CONTROL SAMPLE: 890607

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	ug/L	500	469J	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 890639 890640

Parameter	Units	92141070002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	ug/L	ND	500	500	498J	499J	100	100	75-125	0	20	H3

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

QC Batch: WET/23487 Analysis Method: SM 4500-S2D
QC Batch Method: SM 4500-S2D Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 92141862010, 92141862011, 92141862012

METHOD BLANK: 891478 Matrix: Water
Associated Lab Samples: 92141862010, 92141862011, 92141862012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	ug/L	ND	1000	12/15/12 15:30	

LABORATORY CONTROL SAMPLE: 891479

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 891480 891481

Parameter	Units	92141713006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	ug/L	ND	500	500	515J	518J	103	104	75-125	1	20	

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

QC Batch: WET/23513 — Analysis Method: SM 4500-S2D
QC Batch Method: SM 4500-S2D — Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 92141862001, 92141862002, 92141862003, 92141862004, 92141862005, 92141862006, 92141862008, 92141862009, 92141862013

METHOD BLANK: 892152 — Matrix: Water
Associated Lab Samples: 92141862001, 92141862002, 92141862003, 92141862004, 92141862005, 92141862006, 92141862008, 92141862009, 92141862013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	ug/L	ND	1000	12/18/12 15:10	

LABORATORY CONTROL SAMPLE: 892153

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	ug/L	500	515J	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 892154 892155

Parameter	Units	92141544009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	ug/L	ND	500	500	574J	572J	111	111	75-125	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 892156 892157

Parameter	Units	92141707004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	ug/L	ND	500	500	389J	387J	74	74	75-125	1	20	M1

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

QC Batch: WET/23527 — Analysis Method: SM 4500-S2D
QC Batch Method: SM 4500-S2D — Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 92141862016, 92141862017, 92141862018, 92141862019, 92141862020, 92141862021, 92141862022, 92141862023, 92141862026, 92141862027

METHOD BLANK: 893143 — Matrix: Water
Associated Lab Samples: 92141862016, 92141862017, 92141862018, 92141862019, 92141862020, 92141862021, 92141862022, 92141862023, 92141862026, 92141862027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	ug/L	ND	1000	12/19/12 15:45	

LABORATORY CONTROL SAMPLE: 893144

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	ug/L	500	517J	103	90-110	

MATRIX SPIKE SAMPLE: 893145

Parameter	Units	92141741004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	ug/L	ND	500	578J	116	75-125	

SAMPLE DUPLICATE: 893146

Parameter	Units	92141741004 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

QC Batch: WET/23470 Analysis Method: SM 5210B
QC Batch Method: SM 5210B Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 92141862016, 92141862017, 92141862020

METHOD BLANK: 890442 Matrix: Water
Associated Lab Samples: 92141862016, 92141862017, 92141862020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	ug/L	ND	2000	12/18/12 23:45	

LABORATORY CONTROL SAMPLE: 890443

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	ug/L	198000	204000	103	84.5-115.4	

SAMPLE DUPLICATE: 890444

Parameter	Units	92141862020 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	ug/L	ND	ND		20	B2

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

QC Batch: WETA/14116 — Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 — Analysis Description: 300.0 IC Anions
Associated Lab Samples: 92141862016, 92141862017, 92141862018, 92141862019, 92141862020, 92141862021

METHOD BLANK: 897464 — Matrix: Water
Associated Lab Samples: 92141862016, 92141862017, 92141862018, 92141862019, 92141862020, 92141862021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	ug/L	ND	250000	12/28/12 19:19	

LABORATORY CONTROL SAMPLE: 897465

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	20000	18700J	93	90-110	

MATRIX SPIKE SAMPLE: 897466

Parameter	Units	92141862016 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	11000J	20000	29600J	93	90-110	

MATRIX SPIKE SAMPLE: 897500

Parameter	Units	92141551021 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	ND	20000	18500J	92	90-110	

SAMPLE DUPLICATE: 897467

Parameter	Units	92141862016 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfate	ug/L	11000J	10900J	1	20	

SAMPLE DUPLICATE: 897501

Parameter	Units	92141551021 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfate	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

QC Batch: WETA/14008 — Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 — Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 92141862016, 92141862017, 92141862020, 92141862021

METHOD BLANK: 890426 — Matrix: Water
Associated Lab Samples: 92141862016, 92141862017, 92141862020, 92141862021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	ug/L	ND	10000	12/13/12 23:02	

LABORATORY CONTROL SAMPLE: 890427

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	ug/L	2500	2450J	98	90-110	

MATRIX SPIKE SAMPLE: 890428

Parameter	Units	92141862020 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	ug/L	62.2J	2500	2280J	89	90-110	M1

MATRIX SPIKE SAMPLE: 890430

Parameter	Units	92141862016 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	ug/L	59.9J	2500	2380J	93	90-110	

SAMPLE DUPLICATE: 890429

Parameter	Units	92141862020 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	ug/L	62.2J	62.0J	0	20	

SAMPLE DUPLICATE: 890431

Parameter	Units	92141862016 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	ug/L	59.9J	59.7J	0	20	

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

QC Batch: WETA/14009
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 92141862018, 92141862019

METHOD BLANK: 890432
Matrix: Water
Associated Lab Samples: 92141862018, 92141862019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	ug/L	ND	10000	12/13/12 23:43	

LABORATORY CONTROL SAMPLE: 890433

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	ug/L	2500	2400J	96	90-110	

MATRIX SPIKE SAMPLE: 890434

Parameter	Units	92141812003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	ug/L	ND	2500	2260J	90	90-110	

MATRIX SPIKE SAMPLE: 890436

Parameter	Units	92141699008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	ug/L	ND	2500	2230J	89	90-110	M1

SAMPLE DUPLICATE: 890435

Parameter	Units	92141812003 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	ug/L	ND	ND		20	

SAMPLE DUPLICATE: 890437

Parameter	Units	92141699008 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

QC Batch: WETA/14120 Analysis Method: SM 4500-Cl-E
QC Batch Method: SM 4500-Cl-E Analysis Description: 4500 Chloride
Associated Lab Samples: 92141862016, 92141862017, 92141862018, 92141862019, 92141862020, 92141862021

METHOD BLANK: 897726 Matrix: Water
Associated Lab Samples: 92141862016, 92141862017, 92141862018, 92141862019, 92141862020, 92141862021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	ug/L	ND	1000	12/28/12 10:52	

LABORATORY CONTROL SAMPLE: 897727

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	ug/L	20000	19300	96	90-110	

MATRIX SPIKE SAMPLE: 897728

Parameter	Units	92141862016 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	ug/L	4070	20000	23700	98	75-125	

SAMPLE DUPLICATE: 897729

Parameter	Units	92141862017 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	ug/L	1280	1820	35	20	D6

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

QC Batch: WETA/14127 — Analysis Method: SM 5220D
QC Batch Method: SM 5220D — Analysis Description: 5220D COD
Associated Lab Samples: 92141862016, 92141862017, 92141862018, 92141862019, 92141862020, 92141862021

METHOD BLANK: 897964 — Matrix: Water
Associated Lab Samples: 92141862016, 92141862017, 92141862018, 92141862019, 92141862020, 92141862021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	ug/L	ND	25000	12/29/12 13:50	

LABORATORY CONTROL SAMPLE: 897965

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	ug/L	750000	751000	100	90-110	

MATRIX SPIKE SAMPLE: 897966

Parameter	Units	92141749002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	ug/L	375 mg/L	750000	1050000	90	75-125	

MATRIX SPIKE SAMPLE: 897968

Parameter	Units	92141869001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	ug/L	ND	750000	701000	93	75-125	

SAMPLE DUPLICATE: 897967

Parameter	Units	92141749002 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	ug/L	375 mg/L	368000	2	20	

SAMPLE DUPLICATE: 897969

Parameter	Units	92141869001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

QC Batch: WETA/14078 — Analysis Method: SM 5310B
QC Batch Method: SM 5310B — Analysis Description: 5310B TOC
Associated Lab Samples: 92141862016, 92141862017, 92141862018

METHOD BLANK: 895173 — Matrix: Water
Associated Lab Samples: 92141862016, 92141862017, 92141862018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	ug/L	ND	1000	12/21/12 18:28	

LABORATORY CONTROL SAMPLE: 895174

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	ug/L	25000	24800	99	90-110	

MATRIX SPIKE SAMPLE: 895175

Parameter	Units	92141741003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	ug/L	49.6 mg/L	25000	75100	102	75-125	

MATRIX SPIKE SAMPLE: 895177

Parameter	Units	92141997009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	ug/L	4.3 mg/L	25000	27800	94	75-125	

SAMPLE DUPLICATE: 895176

Parameter	Units	92141741004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	ug/L	2.7 mg/L	2510	7	20	

SAMPLE DUPLICATE: 895178

Parameter	Units	92141998020 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	ug/L	3.0 mg/L	2840	5	20	

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

QC Batch: WETA/14114 Analysis Method: SM 5310B
QC Batch Method: SM 5310B Analysis Description: 5310B TOC
Associated Lab Samples: 92141862019, 92141862020, 92141862021

METHOD BLANK: 897258 Matrix: Water
Associated Lab Samples: 92141862019, 92141862020, 92141862021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	ug/L	ND	1000	12/27/12 19:20	

LABORATORY CONTROL SAMPLE: 897259

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	ug/L	25000	24200	97	90-110	

MATRIX SPIKE SAMPLE: 897260

Parameter	Units	92141862019 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	ug/L	10100	25000	30900	83	75-125	

MATRIX SPIKE SAMPLE: 897262

Parameter	Units	92141883002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	ug/L	1.4 mg/L	25000	25200	95	75-125	

SAMPLE DUPLICATE: 897261

Parameter	Units	92141869001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	ug/L	1.4 mg/L	1390	1	20	

SAMPLE DUPLICATE: 897263

Parameter	Units	92141883003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	ug/L	2.7 mg/L	2590	5	20	

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QUALIFIERS

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

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

TNI - The NELAC Institute.

LABORATORIES

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

ANALYTE QUALIFIERS

B2	Oxygen usage is less than 2.0 for all dilutions set. The reported value is an estimated less than value and is calculated for the dilution using the most amount of sample.
D6	The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
H3	Sample was received or analysis requested beyond the recognized method holding time.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92141862001	**MW-4R**	EPA 3010	MPRP/12211	EPA 6010	ICP/11153
92141862002	**MW-9**	EPA 3010	MPRP/12211	EPA 6010	ICP/11153
92141862003	**MW-10**	EPA 3010	MPRP/12211	EPA 6010	ICP/11153
92141862004	**MW-13**	EPA 3010	MPRP/12211	EPA 6010	ICP/11153
92141862005	**MW-14**	EPA 3010	MPRP/12211	EPA 6010	ICP/11153
92141862006	**MW-15**	EPA 3010	MPRP/12211	EPA 6010	ICP/11153
92141862007	**MW-17**	EPA 3010	MPRP/12211	EPA 6010	ICP/11153
92141862008	**MW-19**	EPA 3010	MPRP/12211	EPA 6010	ICP/11153
92141862009	**MW-20**	EPA 3010	MPRP/12211	EPA 6010	ICP/11153
92141862010	**MW-21**	EPA 3010	MPRP/12211	EPA 6010	ICP/11153
92141862011	**MW-22**	EPA 3010	MPRP/12211	EPA 6010	ICP/11153
92141862012	**MW-23**	EPA 3010	MPRP/12211	EPA 6010	ICP/11153
92141862013	**MW-32**	EPA 3010	MPRP/12211	EPA 6010	ICP/11153
92141862014	**SW-3**	EPA 3010	MPRP/12211	EPA 6010	ICP/11153
92141862015	**SW-4R**	EPA 3010	MPRP/12211	EPA 6010	ICP/11153
92141862016	**MW-33**	EPA 3010	MPRP/12211	EPA 6010	ICP/11153
92141862017	**MW-34**	EPA 3010	MPRP/12211	EPA 6010	ICP/11153
92141862018	**MW-12**	EPA 3010	MPRP/12211	EPA 6010	ICP/11153
92141862019	**MW-12D**	EPA 3010	MPRP/12211	EPA 6010	ICP/11153
92141862020	**MW-18**	EPA 3010	MPRP/12212	EPA 6010	ICP/11160
92141862021	**MW-24**	EPA 3010	MPRP/12212	EPA 6010	ICP/11160
92141862022	**MW-1**	EPA 3010	MPRP/12261	EPA 6010	ICP/11205
92141862023	**MW-1B**	EPA 3010	MPRP/12261	EPA 6010	ICP/11205
92141862024	**SW-5**	EPA 3010	MPRP/12261	EPA 6010	ICP/11205
92141862025	**SW-6**	EPA 3010	MPRP/12261	EPA 6010	ICP/11205
92141862026	**MW-7**	EPA 3010	MPRP/12261	EPA 6010	ICP/11205
92141862027	**MW-16**	EPA 3010	MPRP/12261	EPA 6010	ICP/11205
92141862028	**EB**	EPA 3010	MPRP/12261	EPA 6010	ICP/11205
92141862029	**FB**	EPA 3010	MPRP/12261	EPA 6010	ICP/11205
92141862001	**MW-4R**	EPA 7470	MERP/4769	EPA 7470	MERC/4662
92141862002	**MW-9**	EPA 7470	MERP/4769	EPA 7470	MERC/4662
92141862003	**MW-10**	EPA 7470	MERP/4769	EPA 7470	MERC/4662
92141862004	**MW-13**	EPA 7470	MERP/4769	EPA 7470	MERC/4662
92141862005	**MW-14**	EPA 7470	MERP/4769	EPA 7470	MERC/4662
92141862006	**MW-15**	EPA 7470	MERP/4769	EPA 7470	MERC/4662
92141862007	**MW-17**	EPA 7470	MERP/4769	EPA 7470	MERC/4662
92141862008	**MW-19**	EPA 7470	MERP/4769	EPA 7470	MERC/4662
92141862009	**MW-20**	EPA 7470	MERP/4769	EPA 7470	MERC/4662
92141862010	**MW-21**	EPA 7470	MERP/4769	EPA 7470	MERC/4662
92141862011	**MW-22**	EPA 7470	MERP/4769	EPA 7470	MERC/4662
92141862012	**MW-23**	EPA 7470	MERP/4769	EPA 7470	MERC/4662
92141862013	**MW-32**	EPA 7470	MERP/4769	EPA 7470	MERC/4662
92141862016	**MW-33**	EPA 7470	MERP/4769	EPA 7470	MERC/4662
92141862017	**MW-34**	EPA 7470	MERP/4769	EPA 7470	MERC/4662
92141862018	**MW-12**	EPA 7470	MERP/4769	EPA 7470	MERC/4662
92141862019	**MW-12D**	EPA 7470	MERP/4769	EPA 7470	MERC/4662
92141862020	**MW-18**	EPA 7470	MERP/4769	EPA 7470	MERC/4662

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92141862021	**MW-24**	EPA 7470	MERP/4769	EPA 7470	MERC/4662
92141862022	**MW-1**	EPA 7470	MERP/4780	EPA 7470	MERC/4675
92141862023	**MW-1B**	EPA 7470	MERP/4780	EPA 7470	MERC/4675
92141862024	**SW-5**	EPA 7470	MERP/4780	EPA 7470	MERC/4675
92141862025	**SW-6**	EPA 7470	MERP/4784	EPA 7470	MERC/4679
92141862026	**MW-7**	EPA 7470	MERP/4784	EPA 7470	MERC/4679
92141862027	**MW-16**	EPA 7470	MERP/4784	EPA 7470	MERC/4679
92141862028	**EB**	EPA 7470	MERP/4784	EPA 7470	MERC/4679
92141862029	**FB**	EPA 7470	MERP/4784	EPA 7470	MERC/4679
92141862001	**MW-4R**	EPA 8260	MSV/21476		
92141862002	**MW-9**	EPA 8260	MSV/21475		
92141862003	**MW-10**	EPA 8260	MSV/21475		
92141862004	**MW-13**	EPA 8260	MSV/21475		
92141862005	**MW-14**	EPA 8260	MSV/21475		
92141862006	**MW-15**	EPA 8260	MSV/21475		
92141862007	**MW-17**	EPA 8260	MSV/21475		
92141862008	**MW-19**	EPA 8260	MSV/21475		
92141862009	**MW-20**	EPA 8260	MSV/21475		
92141862010	**MW-21**	EPA 8260	MSV/21475		
92141862011	**MW-22**	EPA 8260	MSV/21476		
92141862012	**MW-23**	EPA 8260	MSV/21476		
92141862013	**MW-32**	EPA 8260	MSV/21476		
92141862014	**SW-3**	EPA 8260	MSV/21476		
92141862015	**SW-4R**	EPA 8260	MSV/21534		
92141862016	**MW-33**	EPA 8260	MSV/21534		
92141862017	**MW-34**	EPA 8260	MSV/21534		
92141862018	**MW-12**	EPA 8260	MSV/21534		
92141862019	**MW-12D**	EPA 8260	MSV/21534		
92141862020	**MW-18**	EPA 8260	MSV/21534		
92141862021	**MW-24**	EPA 8260	MSV/21474		
92141862022	**MW-1**	EPA 8260	MSV/21474		
92141862023	**MW-1B**	EPA 8260	MSV/21474		
92141862024	**SW-5**	EPA 8260	MSV/21474		
92141862025	**SW-6**	EPA 8260	MSV/21474		
92141862026	**MW-7**	EPA 8260	MSV/21474		
92141862027	**MW-16**	EPA 8260	MSV/21474		
92141862028	**EB**	EPA 8260	MSV/21474		
92141862029	**FB**	EPA 8260	MSV/21474		
92141862030	**TB**	EPA 8260	MSV/21492		
92141862016	**MW-33**	SM 2320B	WET/23585		
92141862017	**MW-34**	SM 2320B	WET/23585		
92141862018	**MW-12**	SM 2320B	WET/23585		
92141862019	**MW-12D**	SM 2320B	WET/23585		
92141862020	**MW-18**	SM 2320B	WET/23585		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92141862021	**MW-24**	SM 2320B	WET/23585		
92141862001	**MW-4R**	SM 4500-S2D	WET/23513		
92141862002	**MW-9**	SM 4500-S2D	WET/23513		
92141862003	**MW-10**	SM 4500-S2D	WET/23513		
92141862004	**MW-13**	SM 4500-S2D	WET/23513		
92141862005	**MW-14**	SM 4500-S2D	WET/23513		
92141862006	**MW-15**	SM 4500-S2D	WET/23513		
92141862007	**MW-17**	SM 4500-S2D	WET/23478		
92141862008	**MW-19**	SM 4500-S2D	WET/23513		
92141862009	**MW-20**	SM 4500-S2D	WET/23513		
92141862010	**MW-21**	SM 4500-S2D	WET/23487		
92141862011	**MW-22**	SM 4500-S2D	WET/23487		
92141862012	**MW-23**	SM 4500-S2D	WET/23487		
92141862013	**MW-32**	SM 4500-S2D	WET/23513		
92141862016	**MW-33**	SM 4500-S2D	WET/23527		
92141862017	**MW-34**	SM 4500-S2D	WET/23527		
92141862018	**MW-12**	SM 4500-S2D	WET/23527		
92141862019	**MW-12D**	SM 4500-S2D	WET/23527		
92141862020	**MW-18**	SM 4500-S2D	WET/23527		
92141862021	**MW-24**	SM 4500-S2D	WET/23527		
92141862022	**MW-1**	SM 4500-S2D	WET/23527		
92141862023	**MW-1B**	SM 4500-S2D	WET/23527		
92141862026	**MW-7**	SM 4500-S2D	WET/23527		
92141862027	**MW-16**	SM 4500-S2D	WET/23527		
92141862016	**MW-33**	SM 5210B	WET/23470	SM 5210B	WET/23471
92141862017	**MW-34**	SM 5210B	WET/23470	SM 5210B	WET/23471
92141862020	**MW-18**	SM 5210B	WET/23470	SM 5210B	WET/23471
92141862016	**MW-33**	EPA 300.0	WETA/14116		
92141862017	**MW-34**	EPA 300.0	WETA/14116		
92141862018	**MW-12**	EPA 300.0	WETA/14116		
92141862019	**MW-12D**	EPA 300.0	WETA/14116		
92141862020	**MW-18**	EPA 300.0	WETA/14116		
92141862021	**MW-24**	EPA 300.0	WETA/14116		
92141862016	**MW-33**	EPA 353.2	WETA/14008		
92141862017	**MW-34**	EPA 353.2	WETA/14008		
92141862018	**MW-12**	EPA 353.2	WETA/14009		
92141862019	**MW-12D**	EPA 353.2	WETA/14009		
92141862020	**MW-18**	EPA 353.2	WETA/14008		
92141862021	**MW-24**	EPA 353.2	WETA/14008		
92141862016	**MW-33**	SM 4500-Cl-E	WETA/14120		
92141862017	**MW-34**	SM 4500-Cl-E	WETA/14120		
92141862018	**MW-12**	SM 4500-Cl-E	WETA/14120		
92141862019	**MW-12D**	SM 4500-Cl-E	WETA/14120		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ALEXANDER LF-SWS
Pace Project No.: 92141862

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92141862020	**MW-18**	SM 4500-Cl-E	WETA/14120		
92141862021	**MW-24**	SM 4500-Cl-E	WETA/14120		
92141862016	**MW-33**	SM 5220D	WETA/14127		
92141862017	**MW-34**	SM 5220D	WETA/14127		
92141862018	**MW-12**	SM 5220D	WETA/14127		
92141862019	**MW-12D**	SM 5220D	WETA/14127		
92141862020	**MW-18**	SM 5220D	WETA/14127		
92141862021	**MW-24**	SM 5220D	WETA/14127		
92141862016	**MW-33**	SM 5310B	WETA/14078		
92141862017	**MW-34**	SM 5310B	WETA/14078		
92141862018	**MW-12**	SM 5310B	WETA/14078		
92141862019	**MW-12D**	SM 5310B	WETA/14114		
92141862020	**MW-18**	SM 5310B	WETA/14114		
92141862021	**MW-24**	SM 5310B	WETA/14114		

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Partial submittal. Future samples to be submitted & Reported w/ these!

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A — Required Client Information:

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

Section B — Required Project Information:

Report To:	Jonathan Pfohl
Copy To:	
Purchase Order No.	
Client Project ID:	Alexander LF- SWS
Container Order Number:	

Section C — Invoice Information:

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

Regulatory Agency:

State / Location: North Carolina

Requested Analysis Filtered (Y/N)

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	VOCs Appendix 2	Total Metals Appendix 2	Alkalinity	Chloride	Sulfate	Sulfide	TOC	COD	Iron	Nitrate			
																			N	N	N	N	N	N	N	N	N	N	N	N	92141862
1	MW-1	WT	G						4			1	3						x	x				x							
2	MW-1B	WT	G						4			1	3						x	x				x							
3	~~MW-2~~	WT	G						~~4~~			~~1~~	~~3~~						~~x~~	~~x~~				~~x~~							
4	MW-4R	WT	G	12/11/12	11:50				4			1	3						x	x				x							001
5																															
6																															
7	MW-9	WT	G	12/11/12	2:50				4			1	3						x	x				x							002
8	MW-10	WT	G	12/11/12	1:05				4			1	3						x	x				x							003
9	MW-12	WT	G	12/12/12	4:40				4			1	3						x	x	x	x	x	x	x	x	x	x			008
10	MW-12D	WT	G	12/12/12	4:05				4			1	3						x	x	x	x	x	x	x	x	x	x			009
11	MW-13	WT	G	12/13/12	8:40				4			1	3						x	x				x							004
12	MW-14	WT	G	12/11/12	3:35				4			1	3						x	x				x							005

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

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	MES / PAec	12/13/12	7:30	PAec	12/13/12	730	
	PAec	12/13/12	1:55		12/13/12	14:55	2.7 ✓ ✓ ✓

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	Jonathan Pfohl
SIGNATURE of SAMPLER:	DATE Signed: 12/12/12

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

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A — Required Client Information:

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

Section B — Required Project Information:

Report To:	Jonathan Pfohl
Copy To:	
Purchase Order No.	
Client Project ID:	Alexander LF- SWS
Container Order Number:	

Section C — Invoice Information:

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

Regulatory Agency:

State / Location: North Carolina

Requested Analysis Filtered (Y/N)

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test (Y/N)	VOCs Appendix 2	Total Metals Appendix 2	Alkalinity	Chloride	Sulfate	Sulfide	TOC	COD	Iron	Nitrate		BOD		92441862
																			N	N	N	N	N	N	N	N	N	N	N		
1	MW-15	WT	G	12/11/12	2:00				4			3	1						x	x				x							006
2	MW-16	WT	G						4			3	1						x	x				x							
3	MW-17	WT	G	12/10/12	3:25				4			3	1						x	x				x							007
4	MW-18	WT	G	12/12/12	9:00														x	x	x	x	x	x	x	x	x	x		x	020
5	MW-19	WT	G	12/11/12	4:05				4			3	1						x	x				x							008
6	MW-20	WT	G	12/11/12	4:40				4			3	1						x	x				x							009
7	MW-21	WT	G	12/10/12	2:45				4			3	1						x	x				x							010
8	MW-22	WT	G	12/10/12	2:05				4			3	1						x	x				x							011
9	MW-23	WT	G	12/10/12	1:00				4			3	1						x	x				x							012
10	MW-24	WT	G	12/12/12	11:00				4			3	1						x	x	x	x	x	x	x	x	x	x			021
11	MW-32	WT	G	12/11/12	10:05				4			3	1						x	x				x							013
12																															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	John / MESCO	12/13/12	7:30	[signature] / PACE	12-13/12	7:30	
	[signature] / PACE	12/13/12	1455	[signature]	12/13/12	14:55	2.7 yes — yes

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jonathan Pfohl

SIGNATURE of SAMPLER: [signature] DATE Signed: 12/13/12

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

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A — Required Client Information:

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

Section B — Required Project Information:

Report To:	Jonathan Pfohl
Copy To:	
Purchase Order No.	
Client Project ID:	Alexander LF (SWS)
Container Order Number:	

Section C — Invoice Information:

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

Regulatory Agency:

State / Location: North Carolina

Requested Analysis Filtered (Y/N)

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes)	SAMPLE TYPE (G=GRAB C)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTI	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	VOCs Appendix I	Total Metals Appendix				Sulfide					VOCs Appendix 2	Total Metals Appendix		92141862
																			N	N	N	N	N	N	N	N	N	N	N	N		
1	SW-3	WT	G	12/10/12	4:00				4			3	1						x	x												014
2	SW-4R	WT	G	12/10/12	1:10				4			3	1						x	x												015
3	SW-5	WT	G						4			3	1						x	x												
4	SW-6	WT	G						4			3	1						x	x												
5	MW-33	WT	G	12/12/12	9:30				4			3	1																x	x		016
6	MW-34	WT	G	12/12/12	10:10				4			3	1																x	x		017
7	EB	WT	G						4			3	1																x	x		
8	FB	WT	G						4			3	1																x	x		
9	TB	WT	G						2				2																x			
10																																
11																																
12																																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	MESCO	12/13/12	7:30	Pace	12-13-12	7:30	
	Pace	12/13/12	1455		12/13/12	14:55	

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jonathan Pfohl

SIGNATURE of SAMPLER: DATE Signed: 12/12/12

1455

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A — Required Client Information:

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

Section B — Required Project Information:

Report To:	Jonathan Pfohl
Copy To:	
Purchase Order No.	
Client Project ID:	Alexander LF (SWS)
Container Order Number:	

Section C — Invoice Information:

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

Regulatory Agency	
State / Location	
	North Carolina

Requested Analysis Filtered (Y/N)

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test (Y/N)	Hydrogen (Microseeps)	Methane/Ethane/Ethene (Microseeps)	VFAs (Microseeps via AM23G)	Alkalinty	Chloride	Sulfate	Sulfide	TOC	COD	BOD	Iron	Nitrate	92141862
																			N	N	N	N	N	N	N	N	N	N	N	N	
1	MW-33	WT	G	12/12/12	9:30														x	x	x	x	x	x	x	x	x	x	x	x	016
2	MW-34	WT	G	12/12/12	10:10														x	x	x	x	x	x	x	x	x	x	x	x	017
3																															
4																															
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															

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

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	(MESCO	12/13/12	7:30	Pace	12-13-12	7:30	
	Pace	12/13/12	1455		12/13/12	14:55	2.7 Y N / N Y

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	Jonathan Pfohl		
SIGNATURE of SAMPLER:		DATE Signed:	12/12/12

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

Pace Analytical	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: October 31, 2012 Page 1 of 2
	Document Number: **F-CHR-CS-03-rev.08**	Issuing Authority: Pace Huntersville Quality Office

Client Name: Municipal **Project #** 92141862

Where Received: ☒ Huntersville ☐ Asheville ☐ Eden ☐ Raleigh

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 T1101 T1102 **Type of Ice:** Wet Blue None ☒ Samples on ice, cooling process has begun

Temp Correction Factor **T1101**: No Correction **T1102**: No Correction

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

Temp should be above freezing to 6°C

Date and Initials of person examining contents: mmj - 12/11/12

		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 MW1, MW18, MW24
Correct Containers Used:	☒Yes ☐No ☐N/A	9. SW5, SW4, FB, FB, TB
-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: 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	ph = 9 for metals SW4R ph = 7 for metals MW33
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed
Samples checked for dechlorination:	☒Yes ☐No ☐N/A	14. ph = 6 for sulfide MW12
Headspace in VOA Vials (>6mm):	☐Yes ☒No ☐N/A	15. ph = 7 for metals MW13
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: LB **Date:** 12/13/12 **SRF Review:** GW **Date:** 12/14/12

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)

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A
Required Client Information:

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

Section B
Required Project Information:

Report To:	Jonathan Pfohl
Copy To:	
Purchase Order No.	
Client Project ID:	Alexander LF- SWS
Container Order Number:	

Section C
Invoice Information:

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

Regulatory Agency
State / Location
North Carolina

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

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

Requested Analysis Filtered (Y/N)

ITEM#	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	VOCs Appendix 2 (N)	Total Metals Appendix 2 (N)	Sulfide (N)	92141862
1	MW-1	WT	G			12/13/12	03:00 PM		5			1	3				1		x	x	x	022
2		WT	G																			
3	MW-1B	WT	G			12/13/12	02:20 PM		5			1	3				1		x	x	x	023
4	SW-5	WT	G			12/13/12	09:35 AM		4			1	3						x	x		024
5	SW-6	WT	G			12/13/12	09:55 AM		4			1	3						x	x		025
6	MW-7	WT	G			12/13/12	12:00 PM		5			1	3				1		x	x	x	026
7	MW-16	WT	G			12/13/12	01:30 PM		5			1	3				1		x	x	x	027
8	EB	WT	G			12/13/12	08:30 AM		4			1	3						x	x		028
9	FB	WT	G			12/13/12	08:40 AM		4			1	3						x	x		029
10	TB	WT	G			12/13/12	PACE FILLED		3				3						x			030
11		WT	G																			
12		WT	G																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
DI water for blanks provided by Pace.	J. Pfohl/MESCO	12/14/12	08:35:00 AM	Jeff/PACE	12/14/2012	8:35 AM				
EB Geotech D Bailer				RP / Pace	12-14-12	8:40 AM	3.2	Y	N	Y

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER: Jonathan Pfohl	
SIGNATURE of SAMPLER:	DATE Signed: 12/14/12

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

Pace Analytical	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: October 31, 2012 Page 1 of 2
	Document Number: **F-CHR-CS-03-rev.08**	Issuing Authority: Pace Huntersville Quality Office

Client Name: Municipal Engine. Serv. Project # 9214186 2

Where Received: ☒ Huntersville ☐ Asheville ☐ Eden ☐ Raleigh

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 (T1101) T1102 **Type of Ice:** (Wet) Blue None ☒ Samples on ice, cooling process has begun

Temp Correction Factor **T1101**: No Correction **T1102**: No Correction

Corrected Cooler Temp.: 3.2 C **Biological Tissue is Frozen:** Yes No (N/A)

Date and Initials of person examining contents: RP 12-14-12

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. RP 12-14-12
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix:_____	☐Yes ☒No ☐N/A	12. ~~FB – one vials missing~~ RP 12/14/12 FB – No Date on Sample No Time TB – No Date on Sample No Time received Dissolved Metals for MW18
All containers needing preservation have been checked.	☒Yes ☐No ☐N/A	13. MW16-Metals pH=7 MW16 not on COC.
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: JG **Date:** 12/14/12 **SRF Review:** JG **Date:** 12/14/12

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

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

January 02, 2013

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

RE: Project: Alexander LF (SWS & UIC)
Pace Project No.: 92141878

Dear Mr. Pfohl:
Enclosed are the analytical results for sample(s) received by the laboratory on December 13, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

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

Sincerely,

Kevin Godwin

kevin.godwin@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: Alexander LF (SWS & UIC)
Pace Project No.: 92141878

Charlotte Certification IDs

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

Asheville Certification IDs

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

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Asheville, NC 28804
(828)254-7176

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

SAMPLE SUMMARY

Project: Alexander LF (SWS & UIC)
Pace Project No.: 92141878

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92141878001	**MW-11**	Water	12/12/12 12:00	12/13/12 15:25
92141878002	**MW-26**	Water	12/12/12 15:10	12/13/12 15:25
92141878003	**MW-27**	Water	12/12/12 13:40	12/13/12 15:25
92141878004	**MW-31**	Water	12/12/12 14:30	12/13/12 15:25
92141878005	**MW-3**	Water	12/12/12 13:00	12/13/12 15:25

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Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: Alexander LF (SWS & UIC)
Pace Project No.: 92141878

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92141878001	**MW-11**	EPA 6010	JMW	17	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8260	MCK	68	PASI-C
		SM 2320B	KCS	1	PASI-A
		SM 4500-S2D	AES	1	PASI-A
		SM 5210B	JBH	1	PASI-A
		EPA 300.0	AES	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 4500-Cl-E	JDA	1	PASI-A
		SM 5220D	AES	1	PASI-A
		SM 5310B	AES	1	PASI-A
92141878002	**MW-26**	EPA 6010	JMW	17	PASI-A
		EPA 7470	DMB	1	PASI-A
		EPA 8260	MCK	68	PASI-C
		SM 2320B	KCS	1	PASI-A
		SM 4500-S2D	AES	1	PASI-A
		SM 5210B	JBH	1	PASI-A
		EPA 300.0	AES	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 4500-Cl-E	JDA	1	PASI-A
		SM 5220D	AES	1	PASI-A
		SM 5310B	AES	1	PASI-A
92141878003	**MW-27**	EPA 6010	JMW	17	PASI-A
		EPA 7470	DMB	1	PASI-A
		EPA 8260	MCK	68	PASI-C
		SM 2320B	KCS	1	PASI-A
		SM 4500-S2D	AES	1	PASI-A
		SM 5210B	JBH	1	PASI-A
		EPA 300.0	AES	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 4500-Cl-E	JDA	1	PASI-A
		SM 5220D	AES	1	PASI-A
		SM 5310B	AES	1	PASI-A
92141878004	**MW-31**	EPA 6010	JMW	17	PASI-A
		EPA 7470	DMB	1	PASI-A
		EPA 8260	MCK	68	PASI-C
		SM 2320B	KCS	1	PASI-A

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

SAMPLE ANALYTE COUNT

Project: Alexander LF (SWS & UIC)
Pace Project No.: 92141878

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-S2D	AES	1	PASI-A
		SM 5210B	JBH	1	PASI-A
		EPA 300.0	AES	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 4500-Cl-E	JDA	1	PASI-A
		SM 5220D	AES	1	PASI-A
		SM 5310B	AES	1	PASI-A
92141878005	**MW-3**	EPA 6010	JMW	16	PASI-A
		EPA 7470	DMB	1	PASI-A
		EPA 8260	MCK	68	PASI-C
		SM 2320B	KCS	1	PASI-A
		SM 4500-S2D	AES	1	PASI-A
		SM 5210B	JBH	1	PASI-A
		EPA 300.0	AES	1	PASI-A
		SM 4500-Cl-E	JDA	1	PASI-A
		SM 5310B	AES	1	PASI-A

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ANALYTICAL RESULTS

Project: Alexander LF (SWS & UIC)
Pace Project No.: 92141878

Sample: MW-11 **Lab ID: 92141878001** Collected: 12/12/12 12:00 Received: 12/13/12 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010		Preparation Method: EPA 3010						
Antimony	ND	ug/L	6.0	5.0	1	12/15/12 12:00	12/19/12 20:53	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 20:53	7440-38-2	
Barium	**106**	ug/L	100	5.0	1	12/15/12 12:00	12/19/12 20:53	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	12/15/12 12:00	12/19/12 20:53	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	12/15/12 12:00	12/19/12 20:53	7440-43-9	
Chromium	**6.2J**	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 20:53	7440-47-3	
Cobalt	**70.6**	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 20:53	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 20:53	7440-50-8	
Iron	**29900**	ug/L	300	50.0	1	12/15/12 12:00	12/19/12 20:53	7439-89-6	
Lead	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 20:53	7439-92-1	
Nickel	**10.2J**	ug/L	50.0	5.0	1	12/15/12 12:00	12/19/12 20:53	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	12/15/12 12:00	12/19/12 20:53	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 20:53	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	12/15/12 12:00	12/19/12 20:53	7440-28-0	
Tin	ND	ug/L	100	5.0	1	12/15/12 12:00	12/19/12 20:53	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	12/15/12 12:00	12/19/12 20:53	7440-62-2	
Zinc	**81.9**	ug/L	10.0	10.0	1	12/15/12 12:00	12/19/12 20:53	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470		Preparation Method: EPA 7470						
Mercury	ND	ug/L	0.20	0.10	1	12/17/12 17:40	12/20/12 13:45	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		12/20/12 18:48	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		12/20/12 18:48	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		12/20/12 18:48	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		12/20/12 18:48	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		12/20/12 18:48	107-05-1	
Benzene	**3.3**	ug/L	1.0	0.25	1		12/20/12 18:48	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		12/20/12 18:48	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		12/20/12 18:48	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		12/20/12 18:48	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		12/20/12 18:48	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		12/20/12 18:48	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		12/20/12 18:48	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		12/20/12 18:48	56-23-5	
Chlorobenzene	**1.9J**	ug/L	3.0	0.23	1		12/20/12 18:48	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		12/20/12 18:48	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		12/20/12 18:48	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/20/12 18:48	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		12/20/12 18:48	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		12/20/12 18:48	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		12/20/12 18:48	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		12/20/12 18:48	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		12/20/12 18:48	74-95-3	
1,2-Dichlorobenzene	**0.36J**	ug/L	5.0	0.30	1		12/20/12 18:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		12/20/12 18:48	541-73-1	

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ANALYTICAL RESULTS

Project: Alexander LF (SWS & UIC)
Pace Project No.: 92141878

Sample: MW-11 **Lab ID: 92141878001** Collected: 12/12/12 12:00 Received: 12/13/12 15:25 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	**7.6**	ug/L	1.0	0.33	1		12/20/12 18:48	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		12/20/12 18:48	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		12/20/12 18:48	75-71-8	
1,1-Dichloroethane	**1.3J**	ug/L	5.0	0.32	1		12/20/12 18:48	75-34-3	
1,2-Dichloroethane	**0.15J**	ug/L	1.0	0.12	1		12/20/12 18:48	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		12/20/12 18:48	75-35-4	
cis-1,2-Dichloroethene	**20.6**	ug/L	5.0	0.19	1		12/20/12 18:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		12/20/12 18:48	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		12/20/12 18:48	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		12/20/12 18:48	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		12/20/12 18:48	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		12/20/12 18:48	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		12/20/12 18:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		12/20/12 18:48	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/20/12 18:48	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		12/20/12 18:48	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		12/20/12 18:48	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		12/20/12 18:48	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		12/20/12 18:48	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		12/20/12 18:48	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		12/20/12 18:48	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		12/20/12 18:48	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		12/20/12 18:48	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		12/20/12 18:48	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		12/20/12 18:48	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		12/20/12 18:48	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		12/20/12 18:48	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		12/20/12 18:48	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		12/20/12 18:48	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		12/20/12 18:48	127-18-4	
Toluene	**1.1**	ug/L	1.0	0.26	1		12/20/12 18:48	108-88-3	
1,2,4-Trichlorobenzene	**0.57J**	ug/L	10.0	0.35	1		12/20/12 18:48	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		12/20/12 18:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		12/20/12 18:48	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		12/20/12 18:48	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		12/20/12 18:48	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		12/20/12 18:48	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		12/20/12 18:48	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		12/20/12 18:48	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		12/20/12 18:48	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	84	%	70-130		1		12/20/12 18:48	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		12/20/12 18:48	1868-53-7	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		12/20/12 18:48	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		12/20/12 18:48	2037-26-5	

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ANALYTICAL RESULTS

Project: Alexander LF (SWS & UIC)
Pace Project No.: 92141878

Sample: MW-11 **Lab ID: 92141878001** Collected: 12/12/12 12:00 Received: 12/13/12 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**193000**	ug/L	5000	1000	1		12/22/12 01:39		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	**242J**	ug/L	1000	100	1		12/19/12 15:45	18496-25-8	
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	**2300**	ug/L	2000	2000	1	12/14/12 01:45	12/18/12 23:45		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**3160J**	ug/L	250000	2000	1		12/28/12 22:01	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	ug/L	10000	20.0	1		12/13/12 23:22		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**30200**	ug/L	1000	1000	1		12/28/12 12:01	16887-00-6	
5220D COD	Analytical Method: SM 5220D								
Chemical Oxygen Demand	ND	ug/L	25000	25000	1		12/29/12 13:50		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**17800**	ug/L	1000	1000	1		12/27/12 20:54	7440-44-0	

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ANALYTICAL RESULTS

Project: Alexander LF (SWS & UIC)
Pace Project No.: 92141878

Sample: MW-26 **Lab ID: 92141878002** Collected: 12/12/12 15:10 Received: 12/13/12 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010		Preparation Method: EPA 3010						
Antimony	ND	ug/L	6.0	5.0	1	12/15/12 12:00	12/19/12 20:57	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 20:57	7440-38-2	
Barium	**92.1J**	ug/L	100	5.0	1	12/15/12 12:00	12/19/12 20:57	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	12/15/12 12:00	12/19/12 20:57	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	12/15/12 12:00	12/19/12 20:57	7440-43-9	
Chromium	**5.4J**	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 20:57	7440-47-3	
Cobalt	**96.6**	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 20:57	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 20:57	7440-50-8	
Iron	**25400**	ug/L	300	50.0	1	12/15/12 12:00	12/19/12 20:57	7439-89-6	
Lead	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 20:57	7439-92-1	
Nickel	**13.5J**	ug/L	50.0	5.0	1	12/15/12 12:00	12/19/12 20:57	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	12/15/12 12:00	12/19/12 20:57	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 20:57	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	12/15/12 12:00	12/19/12 20:57	7440-28-0	
Tin	ND	ug/L	100	5.0	1	12/15/12 12:00	12/19/12 20:57	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	12/15/12 12:00	12/19/12 20:57	7440-62-2	
Zinc	**29.5**	ug/L	10.0	10.0	1	12/15/12 12:00	12/19/12 20:57	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470		Preparation Method: EPA 7470						
Mercury	ND	ug/L	0.20	0.10	1	12/18/12 17:00	12/26/12 15:46	7439-97-6	M1
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		12/20/12 19:06	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		12/20/12 19:06	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		12/20/12 19:06	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		12/20/12 19:06	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		12/20/12 19:06	107-05-1	
Benzene	**2.7**	ug/L	1.0	0.25	1		12/20/12 19:06	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		12/20/12 19:06	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		12/20/12 19:06	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		12/20/12 19:06	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		12/20/12 19:06	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		12/20/12 19:06	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		12/20/12 19:06	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		12/20/12 19:06	56-23-5	
Chlorobenzene	**2.0J**	ug/L	3.0	0.23	1		12/20/12 19:06	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		12/20/12 19:06	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		12/20/12 19:06	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/20/12 19:06	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		12/20/12 19:06	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		12/20/12 19:06	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		12/20/12 19:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		12/20/12 19:06	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		12/20/12 19:06	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		12/20/12 19:06	95-50-1	
1,3-Dichlorobenzene	**8.9**	ug/L	5.0	0.24	1		12/20/12 19:06	541-73-1	

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ANALYTICAL RESULTS

Project: Alexander LF (SWS & UIC)
Pace Project No.: 92141878

Sample: MW-26 **Lab ID: 92141878002** Collected: 12/12/12 15:10 Received: 12/13/12 15:25 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		12/20/12 19:06	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		12/20/12 19:06	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		12/20/12 19:06	75-71-8	
1,1-Dichloroethane	**0.80J**	ug/L	5.0	0.32	1		12/20/12 19:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		12/20/12 19:06	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		12/20/12 19:06	75-35-4	
cis-1,2-Dichloroethene	**25.6**	ug/L	5.0	0.19	1		12/20/12 19:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		12/20/12 19:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		12/20/12 19:06	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		12/20/12 19:06	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		12/20/12 19:06	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		12/20/12 19:06	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		12/20/12 19:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		12/20/12 19:06	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/20/12 19:06	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		12/20/12 19:06	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		12/20/12 19:06	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		12/20/12 19:06	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		12/20/12 19:06	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		12/20/12 19:06	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		12/20/12 19:06	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		12/20/12 19:06	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		12/20/12 19:06	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		12/20/12 19:06	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		12/20/12 19:06	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		12/20/12 19:06	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		12/20/12 19:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		12/20/12 19:06	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		12/20/12 19:06	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		12/20/12 19:06	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		12/20/12 19:06	108-88-3	
1,2,4-Trichlorobenzene	**0.53J**	ug/L	10.0	0.35	1		12/20/12 19:06	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		12/20/12 19:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		12/20/12 19:06	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		12/20/12 19:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		12/20/12 19:06	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		12/20/12 19:06	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		12/20/12 19:06	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		12/20/12 19:06	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		12/20/12 19:06	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	84	%	70-130		1		12/20/12 19:06	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		12/20/12 19:06	1868-53-7	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		12/20/12 19:06	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		12/20/12 19:06	2037-26-5	

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ANALYTICAL RESULTS

Project: Alexander LF (SWS & UIC)
Pace Project No.: 92141878

Sample: MW-26 **Lab ID: 92141878002** Collected: 12/12/12 15:10 Received: 12/13/12 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**204000**	ug/L	5000	1000	1		12/22/12 01:53		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	**228J**	ug/L	1000	100	1		12/19/12 15:45	18496-25-8	
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	ND	ug/L	2000	2000	1	12/14/12 01:45	12/18/12 23:45		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**6190J**	ug/L	250000	2000	1		12/28/12 22:15	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	ug/L	10000	20.0	1		12/13/12 23:57		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**23700**	ug/L	1000	1000	1		12/28/12 12:01	16887-00-6	
5220D COD	Analytical Method: SM 5220D								
Chemical Oxygen Demand	**76000**	ug/L	25000	25000	1		12/29/12 13:50		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**17800**	ug/L	1000	1000	1		12/27/12 21:04	7440-44-0	

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ANALYTICAL RESULTS

Project: Alexander LF (SWS & UIC)
Pace Project No.: 92141878

Sample: MW-27 **Lab ID: 92141878003** Collected: 12/12/12 13:40 Received: 12/13/12 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010		Preparation Method: EPA 3010						
Antimony	ND	ug/L	6.0	5.0	1	12/15/12 12:00	12/19/12 21:00	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 21:00	7440-38-2	
Barium	**45.5J**	ug/L	100	5.0	1	12/15/12 12:00	12/19/12 21:00	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	12/15/12 12:00	12/19/12 21:00	7440-41-7	
Cadmium	**1.3**	ug/L	1.0	1.0	1	12/15/12 12:00	12/19/12 21:00	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 21:00	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 21:00	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 21:00	7440-50-8	
Iron	**271J**	ug/L	300	50.0	1	12/15/12 12:00	12/19/12 21:00	7439-89-6	
Lead	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 21:00	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	12/15/12 12:00	12/19/12 21:00	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	12/15/12 12:00	12/19/12 21:00	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 21:00	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	12/15/12 12:00	12/19/12 21:00	7440-28-0	
Tin	ND	ug/L	100	5.0	1	12/15/12 12:00	12/19/12 21:00	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	12/15/12 12:00	12/19/12 21:00	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	12/15/12 12:00	12/19/12 21:00	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470		Preparation Method: EPA 7470						
Mercury	ND	ug/L	0.20	0.10	1	12/18/12 17:00	12/26/12 15:54	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		12/20/12 19:24	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		12/20/12 19:24	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		12/20/12 19:24	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		12/20/12 19:24	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		12/20/12 19:24	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		12/20/12 19:24	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		12/20/12 19:24	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		12/20/12 19:24	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		12/20/12 19:24	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		12/20/12 19:24	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		12/20/12 19:24	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		12/20/12 19:24	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		12/20/12 19:24	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		12/20/12 19:24	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		12/20/12 19:24	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		12/20/12 19:24	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/20/12 19:24	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		12/20/12 19:24	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		12/20/12 19:24	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		12/20/12 19:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		12/20/12 19:24	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		12/20/12 19:24	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		12/20/12 19:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		12/20/12 19:24	541-73-1	

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ANALYTICAL RESULTS

Project: Alexander LF (SWS & UIC)
Pace Project No.: 92141878

Sample: MW-27 **Lab ID: 92141878003** Collected: 12/12/12 13:40 Received: 12/13/12 15:25 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		12/20/12 19:24	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		12/20/12 19:24	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		12/20/12 19:24	75-71-8	
1,1-Dichloroethane	**0.54J**	ug/L	5.0	0.32	1		12/20/12 19:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		12/20/12 19:24	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		12/20/12 19:24	75-35-4	
cis-1,2-Dichloroethene	**20.4**	ug/L	5.0	0.19	1		12/20/12 19:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		12/20/12 19:24	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		12/20/12 19:24	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		12/20/12 19:24	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		12/20/12 19:24	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		12/20/12 19:24	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		12/20/12 19:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		12/20/12 19:24	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/20/12 19:24	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		12/20/12 19:24	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		12/20/12 19:24	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		12/20/12 19:24	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		12/20/12 19:24	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		12/20/12 19:24	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		12/20/12 19:24	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		12/20/12 19:24	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		12/20/12 19:24	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		12/20/12 19:24	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		12/20/12 19:24	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		12/20/12 19:24	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		12/20/12 19:24	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		12/20/12 19:24	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		12/20/12 19:24	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		12/20/12 19:24	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		12/20/12 19:24	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		12/20/12 19:24	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		12/20/12 19:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		12/20/12 19:24	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		12/20/12 19:24	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		12/20/12 19:24	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		12/20/12 19:24	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		12/20/12 19:24	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		12/20/12 19:24	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		12/20/12 19:24	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	84	%	70-130		1		12/20/12 19:24	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		12/20/12 19:24	1868-53-7	
1,2-Dichloroethane-d4 (S)	110	%	70-130		1		12/20/12 19:24	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		12/20/12 19:24	2037-26-5	

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ANALYTICAL RESULTS

Project: Alexander LF (SWS & UIC)
Pace Project No.: 92141878

Sample: MW-27 **Lab ID: 92141878003** Collected: 12/12/12 13:40 Received: 12/13/12 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**73200**	ug/L	5000	1000	1		12/22/12 02:02		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		12/19/12 15:45	18496-25-8	
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	ND	ug/L	2000	2000	1	12/14/12 01:45	12/18/12 23:45		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**7240J**	ug/L	250000	2000	1		12/28/12 22:29	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**293J**	ug/L	10000	20.0	1		12/13/12 23:42		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**19500**	ug/L	1000	1000	1		12/28/12 12:02	16887-00-6	
5220D COD	Analytical Method: SM 5220D								
Chemical Oxygen Demand	ND	ug/L	25000	25000	1		12/29/12 13:50		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**6590**	ug/L	1000	1000	1		12/27/12 21:39	7440-44-0	

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ANALYTICAL RESULTS

Project: Alexander LF (SWS & UIC)
Pace Project No.: 92141878

Sample: MW-31 **Lab ID: 92141878004** Collected: 12/12/12 14:30 Received: 12/13/12 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010		Preparation Method: EPA 3010						
Antimony	ND	ug/L	6.0	5.0	1	12/15/12 12:00	12/19/12 21:04	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 21:04	7440-38-2	
Barium	**90.5J**	ug/L	100	5.0	1	12/15/12 12:00	12/19/12 21:04	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	12/15/12 12:00	12/19/12 21:04	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	12/15/12 12:00	12/19/12 21:04	7440-43-9	
Chromium	**5.9J**	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 21:04	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 21:04	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 21:04	7440-50-8	
Iron	**2610**	ug/L	300	50.0	1	12/15/12 12:00	12/19/12 21:04	7439-89-6	
Lead	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 21:04	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	12/15/12 12:00	12/19/12 21:04	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	12/15/12 12:00	12/19/12 21:04	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 21:04	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	12/15/12 12:00	12/19/12 21:04	7440-28-0	
Tin	ND	ug/L	100	5.0	1	12/15/12 12:00	12/19/12 21:04	7440-31-5	
Vanadium	**5.5J**	ug/L	25.0	5.0	1	12/15/12 12:00	12/19/12 21:04	7440-62-2	
Zinc	**10.5**	ug/L	10.0	10.0	1	12/15/12 12:00	12/19/12 21:04	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470		Preparation Method: EPA 7470						
Mercury	ND	ug/L	0.20	0.10	1	12/18/12 17:00	12/26/12 16:04	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		12/20/12 19:43	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		12/20/12 19:43	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		12/20/12 19:43	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		12/20/12 19:43	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		12/20/12 19:43	107-05-1	
Benzene	**0.27J**	ug/L	1.0	0.25	1		12/20/12 19:43	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		12/20/12 19:43	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		12/20/12 19:43	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		12/20/12 19:43	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		12/20/12 19:43	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		12/20/12 19:43	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		12/20/12 19:43	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		12/20/12 19:43	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		12/20/12 19:43	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		12/20/12 19:43	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		12/20/12 19:43	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/20/12 19:43	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		12/20/12 19:43	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		12/20/12 19:43	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		12/20/12 19:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		12/20/12 19:43	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		12/20/12 19:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		12/20/12 19:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		12/20/12 19:43	541-73-1	

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ANALYTICAL RESULTS

Project: Alexander LF (SWS & UIC)
Pace Project No.: 92141878

Sample: MW-31 **Lab ID: 92141878004** Collected: 12/12/12 14:30 Received: 12/13/12 15:25 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	**0.90J**	ug/L	1.0	0.33	1		12/20/12 19:43	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		12/20/12 19:43	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		12/20/12 19:43	75-71-8	
1,1-Dichloroethane	**0.43J**	ug/L	5.0	0.32	1		12/20/12 19:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		12/20/12 19:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		12/20/12 19:43	75-35-4	
cis-1,2-Dichloroethene	**2.2J**	ug/L	5.0	0.19	1		12/20/12 19:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		12/20/12 19:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		12/20/12 19:43	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		12/20/12 19:43	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		12/20/12 19:43	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		12/20/12 19:43	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		12/20/12 19:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		12/20/12 19:43	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/20/12 19:43	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		12/20/12 19:43	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		12/20/12 19:43	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		12/20/12 19:43	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		12/20/12 19:43	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		12/20/12 19:43	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		12/20/12 19:43	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		12/20/12 19:43	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		12/20/12 19:43	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		12/20/12 19:43	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		12/20/12 19:43	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		12/20/12 19:43	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		12/20/12 19:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		12/20/12 19:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		12/20/12 19:43	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		12/20/12 19:43	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		12/20/12 19:43	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		12/20/12 19:43	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		12/20/12 19:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		12/20/12 19:43	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		12/20/12 19:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		12/20/12 19:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		12/20/12 19:43	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		12/20/12 19:43	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		12/20/12 19:43	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		12/20/12 19:43	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	83	%	70-130		1		12/20/12 19:43	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		12/20/12 19:43	1868-53-7	
1,2-Dichloroethane-d4 (S)	110	%	70-130		1		12/20/12 19:43	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		12/20/12 19:43	2037-26-5	

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ANALYTICAL RESULTS

Project: Alexander LF (SWS & UIC)
Pace Project No.: 92141878

Sample: MW-31 **Lab ID: 92141878004** Collected: 12/12/12 14:30 Received: 12/13/12 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**37100**	ug/L	5000	1000	1		12/22/12 02:08		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		12/19/12 15:45	18496-25-8	
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	ND	ug/L	2000	2000	1	12/14/12 01:45	12/18/12 23:45		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	ND	ug/L	250000	2000	1		12/28/12 22:42	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**533J**	ug/L	10000	20.0	1		12/13/12 23:56		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**10400**	ug/L	1000	1000	1		12/28/12 12:03	16887-00-6	
5220D COD	Analytical Method: SM 5220D								
Chemical Oxygen Demand	ND	ug/L	25000	25000	1		12/29/12 13:50		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**7310**	ug/L	1000	1000	1		12/27/12 21:49	7440-44-0	

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ANALYTICAL RESULTS

Project: Alexander LF (SWS & UIC)
Pace Project No.: 92141878

Sample: MW-3 **Lab ID: 92141878005** Collected: 12/12/12 13:00 Received: 12/13/12 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	12/15/12 12:00	12/19/12 21:18	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 21:18	7440-38-2	
Barium	**38.5J**	ug/L	100	5.0	1	12/15/12 12:00	12/19/12 21:18	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	12/15/12 12:00	12/19/12 21:18	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	12/15/12 12:00	12/19/12 21:18	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 21:18	7440-47-3	
Cobalt	**15.0**	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 21:18	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 21:18	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 21:18	7439-92-1	
Nickel	**7.7J**	ug/L	50.0	5.0	1	12/15/12 12:00	12/19/12 21:18	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	12/15/12 12:00	12/19/12 21:18	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	12/15/12 12:00	12/19/12 21:18	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	12/15/12 12:00	12/19/12 21:18	7440-28-0	
Tin	ND	ug/L	100	5.0	1	12/15/12 12:00	12/19/12 21:18	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	12/15/12 12:00	12/19/12 21:18	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	12/15/12 12:00	12/19/12 21:18	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	12/18/12 17:00	12/26/12 16:07	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		12/20/12 20:01	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		12/20/12 20:01	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		12/20/12 20:01	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		12/20/12 20:01	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		12/20/12 20:01	107-05-1	
Benzene	**5.2**	ug/L	1.0	0.25	1		12/20/12 20:01	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		12/20/12 20:01	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		12/20/12 20:01	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		12/20/12 20:01	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		12/20/12 20:01	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		12/20/12 20:01	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		12/20/12 20:01	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		12/20/12 20:01	56-23-5	
Chlorobenzene	**0.78J**	ug/L	3.0	0.23	1		12/20/12 20:01	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		12/20/12 20:01	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		12/20/12 20:01	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/20/12 20:01	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		12/20/12 20:01	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		12/20/12 20:01	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		12/20/12 20:01	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		12/20/12 20:01	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		12/20/12 20:01	74-95-3	
1,2-Dichlorobenzene	**0.34J**	ug/L	5.0	0.30	1		12/20/12 20:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		12/20/12 20:01	541-73-1	
1,4-Dichlorobenzene	**4.3**	ug/L	1.0	0.33	1		12/20/12 20:01	106-46-7	

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ANALYTICAL RESULTS

Project: Alexander LF (SWS & UIC)
Pace Project No.: 92141878

Sample: MW-3 **Lab ID: 92141878005** Collected: 12/12/12 13:00 Received: 12/13/12 15:25 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		12/20/12 20:01	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		12/20/12 20:01	75-71-8	
1,1-Dichloroethane	**1.3J**	ug/L	5.0	0.32	1		12/20/12 20:01	75-34-3	
1,2-Dichloroethane	**0.29J**	ug/L	1.0	0.12	1		12/20/12 20:01	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		12/20/12 20:01	75-35-4	
cis-1,2-Dichloroethene	**6.9**	ug/L	5.0	0.19	1		12/20/12 20:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		12/20/12 20:01	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		12/20/12 20:01	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		12/20/12 20:01	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		12/20/12 20:01	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		12/20/12 20:01	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		12/20/12 20:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		12/20/12 20:01	10061-02-6	
Ethylbenzene	**0.82J**	ug/L	1.0	0.30	1		12/20/12 20:01	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		12/20/12 20:01	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		12/20/12 20:01	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		12/20/12 20:01	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		12/20/12 20:01	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		12/20/12 20:01	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		12/20/12 20:01	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		12/20/12 20:01	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		12/20/12 20:01	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		12/20/12 20:01	108-10-1	
Naphthalene	**2.1J**	ug/L	10.0	0.24	1		12/20/12 20:01	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		12/20/12 20:01	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		12/20/12 20:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		12/20/12 20:01	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		12/20/12 20:01	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		12/20/12 20:01	127-18-4	
Toluene	**0.50J**	ug/L	1.0	0.26	1		12/20/12 20:01	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		12/20/12 20:01	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		12/20/12 20:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		12/20/12 20:01	79-00-5	
Trichloroethene	**0.73J**	ug/L	1.0	0.47	1		12/20/12 20:01	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		12/20/12 20:01	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		12/20/12 20:01	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		12/20/12 20:01	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		12/20/12 20:01	75-01-4	
Xylene (Total)	**2.7J**	ug/L	5.0	0.66	1		12/20/12 20:01	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	85	%	70-130		1		12/20/12 20:01	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		12/20/12 20:01	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		12/20/12 20:01	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		12/20/12 20:01	2037-26-5	

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ANALYTICAL RESULTS

Project: Alexander LF (SWS & UIC)
Pace Project No.: 92141878

Sample: MW-3 **Lab ID: 92141878005** Collected: 12/12/12 13:00 Received: 12/13/12 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**127000**	ug/L	5000	1000	1		12/26/12 16:19		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		12/19/12 15:45	18496-25-8	
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	**5900**	ug/L	2000	2000	1	12/14/12 01:45	12/18/12 23:45		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	ND	ug/L	250000	2000	1		12/28/12 22:56	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**19000**	ug/L	1000	1000	1		12/28/12 12:03	16887-00-6	
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**14000**	ug/L	1000	1000	1		12/27/12 21:59	7440-44-0	

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QUALITY CONTROL DATA

Project: Alexander LF (SWS & UIC)
Pace Project No.: 92141878

QC Batch: MERP/4769
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Associated Lab Samples: 92141878001

METHOD BLANK: 891845
Matrix: Water
Associated Lab Samples: 92141878001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	12/20/12 12:32	

LABORATORY CONTROL SAMPLE: 891846

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.6	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 891847 891848

Parameter	Units	92141862001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	0.17J	2.5	2.5	1.2	1.2	40	40	75-125	2	25	M1

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QUALITY CONTROL DATA

Project: Alexander LF (SWS & UIC)
Pace Project No.: 92141878

QC Batch: MERP/4774 — Analysis Method: EPA 7470
QC Batch Method: EPA 7470 — Analysis Description: 7470 Mercury
Associated Lab Samples: 92141878002, 92141878003, 92141878004, 92141878005

METHOD BLANK: 892371 — Matrix: Water
Associated Lab Samples: 92141878002, 92141878003, 92141878004, 92141878005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	12/26/12 15:40	

LABORATORY CONTROL SAMPLE: 892372

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.2	88	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 892705 892706

Parameter	Units	92141878002 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	1.5	1.3	59	53	75-125	10	25	M1

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QUALITY CONTROL DATA

Project: Alexander LF (SWS & UIC)
Pace Project No.: 92141878

QC Batch: MPRP/12212 | Analysis Method: EPA 6010
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 92141878001, 92141878002, 92141878003, 92141878004, 92141878005

METHOD BLANK: 891434 | Matrix: Water
Associated Lab Samples: 92141878001, 92141878002, 92141878003, 92141878004, 92141878005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	6.0	12/19/12 20:32	
Arsenic	ug/L	ND	10.0	12/19/12 20:32	
Barium	ug/L	ND	100	12/19/12 20:32	
Beryllium	ug/L	ND	1.0	12/19/12 20:32	
Cadmium	ug/L	ND	1.0	12/19/12 20:32	
Chromium	ug/L	ND	10.0	12/19/12 20:32	
Cobalt	ug/L	ND	10.0	12/19/12 20:32	
Copper	ug/L	ND	10.0	12/19/12 20:32	
Iron	ug/L	ND	300	12/19/12 20:32	
Lead	ug/L	ND	10.0	12/19/12 20:32	
Nickel	ug/L	ND	50.0	12/19/12 20:32	
Selenium	ug/L	ND	10.0	12/19/12 20:32	
Silver	ug/L	ND	10.0	12/19/12 20:32	
Thallium	ug/L	ND	5.5	12/19/12 20:32	
Tin	ug/L	ND	100	12/19/12 20:32	
Vanadium	ug/L	ND	25.0	12/19/12 20:32	
Zinc	ug/L	ND	10.0	12/19/12 20:32	

LABORATORY CONTROL SAMPLE: 891435

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	482	96	80-120	
Arsenic	ug/L	500	478	96	80-120	
Barium	ug/L	500	480	96	80-120	
Beryllium	ug/L	500	485	97	80-120	
Cadmium	ug/L	500	490	98	80-120	
Chromium	ug/L	500	496	99	80-120	
Cobalt	ug/L	500	491	98	80-120	
Copper	ug/L	500	479	96	80-120	
Iron	ug/L	5000	4970	99	80-120	
Lead	ug/L	500	485	97	80-120	
Nickel	ug/L	500	489	98	80-120	
Selenium	ug/L	500	479	96	80-120	
Silver	ug/L	250	246	98	80-120	
Thallium	ug/L	500	464	93	80-120	
Tin	ug/L	500	488	98	80-120	
Vanadium	ug/L	500	497	99	80-120	
Zinc	ug/L	500	485	97	80-120	

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QUALITY CONTROL DATA

Project: Alexander LF (SWS & UIC)
Pace Project No.: 92141878

MATRIX SPIKE SAMPLE: 891436

Parameter	Units	92141862020 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	474	95	75-125	
Arsenic	ug/L	ND	500	469	94	75-125	
Barium	ug/L	32.1J	500	523	98	75-125	
Beryllium	ug/L	ND	500	484	97	75-125	
Cadmium	ug/L	ND	500	483	97	75-125	
Chromium	ug/L	12.0	500	511	100	75-125	
Cobalt	ug/L	20.3	500	509	98	75-125	
Copper	ug/L	23.2	500	505	96	75-125	
Iron	ug/L	18300	5000	23400	102	75-125	
Lead	ug/L	ND	500	472	94	75-125	
Nickel	ug/L	11.8J	500	498	97	75-125	
Selenium	ug/L	ND	500	474	95	75-125	
Silver	ug/L	ND	250	245	98	75-125	
Thallium	ug/L	ND	500	451	90	75-125	
Tin	ug/L	ND	500	481	96	75-125	
Vanadium	ug/L	19.0J	500	515	99	75-125	
Zinc	ug/L	14.5	500	499	97	75-125	

SAMPLE DUPLICATE: 891437

Parameter	Units	92141862021 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	ND	ND		25	
Arsenic	ug/L	ND	ND		25	
Barium	ug/L	69.7J	67.2J	4	25	
Beryllium	ug/L	ND	ND		25	
Cadmium	ug/L	ND	ND		25	
Chromium	ug/L	ND	ND		25	
Cobalt	ug/L	22.6	22.4	1	25	
Copper	ug/L	ND	ND		25	
Iron	ug/L	1710	1290	28	25	D6
Lead	ug/L	ND	ND		25	
Nickel	ug/L	ND	ND		25	
Selenium	ug/L	ND	ND		25	
Silver	ug/L	ND	ND		25	
Thallium	ug/L	ND	ND		25	
Tin	ug/L	ND	ND		25	
Vanadium	ug/L	ND	ND		25	
Zinc	ug/L	13.2	11.6	13	25	

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QUALITY CONTROL DATA

Project: Alexander LF (SWS & UIC)
Pace Project No.: 92141878

QC Batch: MSV/21492 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 92141878001, 92141878002, 92141878003, 92141878004, 92141878005

METHOD BLANK: 892631 Matrix: Water
Associated Lab Samples: 92141878001, 92141878002, 92141878003, 92141878004, 92141878005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	12/20/12 13:38	
1,1,1-Trichloroethane	ug/L	ND	1.0	12/20/12 13:38	
1,1,2,2-Tetrachloroethane	ug/L	ND	3.0	12/20/12 13:38	
1,1,2-Trichloroethane	ug/L	ND	1.0	12/20/12 13:38	
1,1-Dichloroethane	ug/L	ND	5.0	12/20/12 13:38	
1,1-Dichloroethene	ug/L	ND	5.0	12/20/12 13:38	
1,1-Dichloropropene	ug/L	ND	5.0	12/20/12 13:38	
1,2,3-Trichloropropane	ug/L	ND	1.0	12/20/12 13:38	
1,2,4-Trichlorobenzene	ug/L	ND	10.0	12/20/12 13:38	
1,2-Dibromo-3-chloropropane	ug/L	ND	13.0	12/20/12 13:38	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	12/20/12 13:38	
1,2-Dichlorobenzene	ug/L	ND	5.0	12/20/12 13:38	
1,2-Dichloroethane	ug/L	ND	1.0	12/20/12 13:38	
1,2-Dichloropropane	ug/L	ND	1.0	12/20/12 13:38	
1,3-Dichlorobenzene	ug/L	ND	5.0	12/20/12 13:38	
1,3-Dichloropropane	ug/L	ND	1.0	12/20/12 13:38	
1,4-Dichlorobenzene	ug/L	ND	1.0	12/20/12 13:38	
2,2-Dichloropropane	ug/L	ND	15.0	12/20/12 13:38	
2-Butanone (MEK)	ug/L	ND	100	12/20/12 13:38	
2-Hexanone	ug/L	ND	50.0	12/20/12 13:38	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	12/20/12 13:38	
Acetone	ug/L	ND	100	12/20/12 13:38	
Acetonitrile	ug/L	ND	55.0	12/20/12 13:38	
Acrolein	ug/L	ND	53.0	12/20/12 13:38	
Acrylonitrile	ug/L	ND	200	12/20/12 13:38	
Allyl chloride	ug/L	ND	10.0	12/20/12 13:38	
Benzene	ug/L	ND	1.0	12/20/12 13:38	
Bromochloromethane	ug/L	ND	3.0	12/20/12 13:38	
Bromodichloromethane	ug/L	ND	1.0	12/20/12 13:38	
Bromoform	ug/L	ND	3.0	12/20/12 13:38	
Bromomethane	ug/L	ND	10.0	12/20/12 13:38	
Carbon disulfide	ug/L	ND	100	12/20/12 13:38	
Carbon tetrachloride	ug/L	ND	1.0	12/20/12 13:38	
Chlorobenzene	ug/L	ND	3.0	12/20/12 13:38	
Chloroethane	ug/L	ND	10.0	12/20/12 13:38	
Chloroform	ug/L	ND	5.0	12/20/12 13:38	
Chloromethane	ug/L	ND	1.0	12/20/12 13:38	
Chloroprene	ug/L	ND	20.0	12/20/12 13:38	
cis-1,2-Dichloroethene	ug/L	ND	5.0	12/20/12 13:38	
cis-1,3-Dichloropropene	ug/L	ND	1.0	12/20/12 13:38	
Dibromochloromethane	ug/L	ND	3.0	12/20/12 13:38	
Dibromomethane	ug/L	ND	10.0	12/20/12 13:38	
Dichlorodifluoromethane	ug/L	ND	5.0	12/20/12 13:38	

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QUALITY CONTROL DATA

Project: Alexander LF (SWS & UIC)
Pace Project No.: 92141878

METHOD BLANK: 892631 Matrix: Water

Associated Lab Samples: 92141878001, 92141878002, 92141878003, 92141878004, 92141878005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethyl methacrylate	ug/L	ND	10.0	12/20/12 13:38	
Ethylbenzene	ug/L	ND	1.0	12/20/12 13:38	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	12/20/12 13:38	
Iodomethane	ug/L	ND	10.0	12/20/12 13:38	
Isobutanol	ug/L	ND	100	12/20/12 13:38	
Methacrylonitrile	ug/L	ND	100	12/20/12 13:38	
Methyl methacrylate	ug/L	ND	30.0	12/20/12 13:38	
Methylene Chloride	ug/L	ND	1.0	12/20/12 13:38	
Naphthalene	ug/L	ND	10.0	12/20/12 13:38	
Propionitrile	ug/L	ND	150	12/20/12 13:38	
Styrene	ug/L	ND	1.0	12/20/12 13:38	
Tetrachloroethene	ug/L	ND	1.0	12/20/12 13:38	
Toluene	ug/L	ND	1.0	12/20/12 13:38	
trans-1,2-Dichloroethene	ug/L	ND	5.0	12/20/12 13:38	
trans-1,3-Dichloropropene	ug/L	ND	1.0	12/20/12 13:38	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	12/20/12 13:38	
Trichloroethene	ug/L	ND	1.0	12/20/12 13:38	
Trichlorofluoromethane	ug/L	ND	1.0	12/20/12 13:38	
Vinyl acetate	ug/L	ND	50.0	12/20/12 13:38	
Vinyl chloride	ug/L	ND	1.0	12/20/12 13:38	
Xylene (Total)	ug/L	ND	5.0	12/20/12 13:38	
1,2-Dichloroethane-d4 (S)	%	107	70-130	12/20/12 13:38	
4-Bromofluorobenzene (S)	%	85	70-130	12/20/12 13:38	
Dibromofluoromethane (S)	%	103	70-130	12/20/12 13:38	
Toluene-d8 (S)	%	102	70-130	12/20/12 13:38	

LABORATORY CONTROL SAMPLE: 892632

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.4	103	70-130	
1,1,1-Trichloroethane	ug/L	50	51.8	104	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	49.9	100	70-130	
1,1,2-Trichloroethane	ug/L	50	52.5	105	70-130	
1,1-Dichloroethane	ug/L	50	51.5	103	70-130	
1,1-Dichloroethene	ug/L	50	49.4	99	70-132	
1,1-Dichloropropene	ug/L	50	51.4	103	70-130	
1,2,3-Trichloropropane	ug/L	50	49.2	98	70-130	
1,2,4-Trichlorobenzene	ug/L	50	53.8	108	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	50.2	100	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	53.9	108	70-130	
1,2-Dichlorobenzene	ug/L	50	51.9	104	70-130	
1,2-Dichloroethane	ug/L	50	48.9	98	70-130	
1,2-Dichloropropane	ug/L	50	53.4	107	70-130	
1,3-Dichlorobenzene	ug/L	50	52.4	105	70-130	
1,3-Dichloropropane	ug/L	50	51.8	104	70-130	

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QUALITY CONTROL DATA

Project: Alexander LF (SWS & UIC)
Pace Project No.: 92141878

LABORATORY CONTROL SAMPLE: 892632

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	51.5	103	70-130	
2,2-Dichloropropane	ug/L	50	39.3	79	58-145	
2-Butanone (MEK)	ug/L	100	112	112	70-145	
2-Hexanone	ug/L	100	108	108	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	100	113	113	70-140	
Acetone	ug/L	100	103	103	50-175	
Acetonitrile	ug/L	500	499	100	70-130	
Acrolein	ug/L	250	266	107	70-130	
Acrylonitrile	ug/L	250	261	104	70-143	
Allyl chloride	ug/L	50	49.2	98	70-130	
Benzene	ug/L	50	52.5	105	70-130	
Bromochloromethane	ug/L	50	52.8	106	70-130	
Bromodichloromethane	ug/L	50	53.9	108	70-130	
Bromoform	ug/L	50	46.7	93	70-130	
Bromomethane	ug/L	50	53.9	108	54-130	
Carbon disulfide	ug/L	50	58.0J	116	70-131	
Carbon tetrachloride	ug/L	50	53.1	106	70-132	
Chlorobenzene	ug/L	50	51.8	104	70-130	
Chloroethane	ug/L	50	61.8	124	64-134	
Chloroform	ug/L	50	50.8	102	70-130	
Chloromethane	ug/L	50	52.8	106	64-130	
Chloroprene	ug/L	50	50.6	101	70-130	
cis-1,2-Dichloroethene	ug/L	50	49.6	99	70-131	
cis-1,3-Dichloropropene	ug/L	50	53.4	107	70-130	
Dibromochloromethane	ug/L	50	55.5	111	70-130	
Dibromomethane	ug/L	50	51.9	104	70-131	
Dichlorodifluoromethane	ug/L	50	50.7	101	56-130	
Ethyl methacrylate	ug/L	50	56.5	113	70-130	
Ethylbenzene	ug/L	50	52.3	105	70-130	
Hexachloro-1,3-butadiene	ug/L	50	52.0	104	70-130	
Iodomethane	ug/L	100	106	106	49-180	
Isobutanol	ug/L	1000	1090	109	70-130	
Methacrylonitrile	ug/L	500	532	106	70-130	
Methyl methacrylate	ug/L	50	53.0	106	70-130	
Methylene Chloride	ug/L	50	52.6	105	63-130	
Naphthalene	ug/L	50	55.3	111	70-138	
Propionitrile	ug/L	500	516	103	70-130	
Styrene	ug/L	50	49.6	99	70-130	
Tetrachloroethene	ug/L	50	51.3	103	70-130	
Toluene	ug/L	50	52.1	104	70-130	
trans-1,2-Dichloroethene	ug/L	50	49.5	99	70-130	
trans-1,3-Dichloropropene	ug/L	50	53.2	106	70-132	
trans-1,4-Dichloro-2-butene	ug/L	50	46.8J	94	70-141	
Trichloroethene	ug/L	50	50.5	101	70-130	
Trichlorofluoromethane	ug/L	50	45.5	91	62-133	
Vinyl acetate	ug/L	100	117	117	66-157	
Vinyl chloride	ug/L	50	48.5	97	69-130	
Xylene (Total)	ug/L	150	161	107	70-130	

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QUALITY CONTROL DATA

Project: Alexander LF (SWS & UIC)
Pace Project No.: 92141878

LABORATORY CONTROL SAMPLE: 892632

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Dibromofluoromethane (S)	%			102	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 892633 892634

Parameter	Units	92141878003 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	49.7	47.9	99	96	70-166	4	30	
Benzene	ug/L	ND	50	50	46.9	46.1	94	92	70-148	2	30	
Chlorobenzene	ug/L	ND	50	50	55.3	55.1	111	110	70-146	1	30	
Toluene	ug/L	ND	50	50	55.2	54.1	110	108	70-155	2	30	
Trichloroethene	ug/L	ND	50	50	53.2	51.1	106	102	69-151	4	30	
1,2-Dichloroethane-d4 (S)	%						102	102	70-130			
4-Bromofluorobenzene (S)	%						85	84	70-130			
Dibromofluoromethane (S)	%						100	101	70-130			
Toluene-d8 (S)	%						97	96	70-130			

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QUALITY CONTROL DATA

Project: Alexander LF (SWS & UIC)
Pace Project No.: 92141878

QC Batch: WET/23585 — Analysis Method: SM 2320B
QC Batch Method: SM 2320B — Analysis Description: 2320B Alkalinity
Associated Lab Samples: 92141878001, 92141878002, 92141878003, 92141878004

METHOD BLANK: 895554 — Matrix: Water
Associated Lab Samples: 92141878001, 92141878002, 92141878003, 92141878004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	ug/L	ND	5000	12/21/12 17:40	

LABORATORY CONTROL SAMPLE: 895555

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	ug/L	50000	45300	91	90-110	

MATRIX SPIKE SAMPLE: 895557

Parameter	Units	92141713006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	ug/L	152000	50000	188000	73	75-125	M1

MATRIX SPIKE SAMPLE: 895559

Parameter	Units	92141862016 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	ug/L	ND	50000	44700	89	75-125	

SAMPLE DUPLICATE: 895556

Parameter	Units	92141713006 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	ug/L	152000	145000	4	20	

SAMPLE DUPLICATE: 895558

Parameter	Units	92141862016 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Alexander LF (SWS & UIC)
Pace Project No.: 92141878

QC Batch: WET/23624
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Associated Lab Samples: 92141878005

METHOD BLANK: 896580
Matrix: Water
Associated Lab Samples: 92141878005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	ug/L	ND	5000	12/26/12 16:08	

LABORATORY CONTROL SAMPLE: 896581

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	ug/L	50000	52000	104	90-110	

MATRIX SPIKE SAMPLE: 896583

Parameter	Units	92141878005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	ug/L	127000	50000	169000	83	75-125	

MATRIX SPIKE SAMPLE: 896585

Parameter	Units	92142548006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	ug/L	601 mg/L	50000	625000	48	75-125	M1

SAMPLE DUPLICATE: 896582

Parameter	Units	92141878005 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	ug/L	127000	130000	2	20	

SAMPLE DUPLICATE: 896584

Parameter	Units	92142548006 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	ug/L	601 mg/L	593000	1	20	

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QUALITY CONTROL DATA

Project: Alexander LF (SWS & UIC)
Pace Project No.: 92141878

QC Batch: WET/23527 Analysis Method: SM 4500-S2D
QC Batch Method: SM 4500-S2D Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 92141878001, 92141878002, 92141878003, 92141878004, 92141878005

METHOD BLANK: 893143 Matrix: Water
Associated Lab Samples: 92141878001, 92141878002, 92141878003, 92141878004, 92141878005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	ug/L	ND	1000	12/19/12 15:45	

LABORATORY CONTROL SAMPLE: 893144

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	ug/L	500	517J	103	90-110	

MATRIX SPIKE SAMPLE: 893145

Parameter	Units	92141741004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	ug/L	ND	500	578J	116	75-125	

SAMPLE DUPLICATE: 893146

Parameter	Units	92141741004 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Alexander LF (SWS & UIC)
Pace Project No.: 92141878

QC Batch: WET/23470 Analysis Method: SM 5210B
QC Batch Method: SM 5210B Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 92141878001, 92141878002, 92141878003, 92141878004, 92141878005

METHOD BLANK: 890442 Matrix: Water
Associated Lab Samples: 92141878001, 92141878002, 92141878003, 92141878004, 92141878005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	ug/L	ND	2000	12/18/12 23:45	

LABORATORY CONTROL SAMPLE: 890443

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	ug/L	198000	204000	103	84.5-115.4	

SAMPLE DUPLICATE: 890444

Parameter	Units	92141862020 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	ug/L	ND	ND		20	B2

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QUALITY CONTROL DATA

Project: Alexander LF (SWS & UIC)
Pace Project No.: 92141878

QC Batch: WETA/14116 — Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 — Analysis Description: 300.0 IC Anions
Associated Lab Samples: 92141878001, 92141878002, 92141878003, 92141878004, 92141878005

METHOD BLANK: 897464 — Matrix: Water
Associated Lab Samples: 92141878001, 92141878002, 92141878003, 92141878004, 92141878005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	ug/L	ND	250000	12/28/12 19:19	

LABORATORY CONTROL SAMPLE: 897465

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	20000	18700J	93	90-110	

MATRIX SPIKE SAMPLE: 897466

Parameter	Units	92141862016 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	11000J	20000	29600J	93	90-110	

MATRIX SPIKE SAMPLE: 897500

Parameter	Units	92141551021 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	ND	20000	18500J	92	90-110	

SAMPLE DUPLICATE: 897467

Parameter	Units	92141862016 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfate	ug/L	11000J	10900J	1	20	

SAMPLE DUPLICATE: 897501

Parameter	Units	92141551021 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfate	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Alexander LF (SWS & UIC)
Pace Project No.: 92141878

QC Batch: WETA/14008
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 92141878001, 92141878003

METHOD BLANK: 890426
Matrix: Water
Associated Lab Samples: 92141878001, 92141878003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	ug/L	ND	10000	12/13/12 23:02	

LABORATORY CONTROL SAMPLE: 890427

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	ug/L	2500	2450J	98	90-110	

MATRIX SPIKE SAMPLE: 890428

Parameter	Units	92141862020 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	ug/L	62.2J	2500	2280J	89	90-110	M1

MATRIX SPIKE SAMPLE: 890430

Parameter	Units	92141862016 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	ug/L	59.9J	2500	2380J	93	90-110	

SAMPLE DUPLICATE: 890429

Parameter	Units	92141862020 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	ug/L	62.2J	62.0J	0	20	

SAMPLE DUPLICATE: 890431

Parameter	Units	92141862016 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	ug/L	59.9J	59.7J	0	20	

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QUALITY CONTROL DATA

Project: Alexander LF (SWS & UIC)
Pace Project No.: 92141878

QC Batch: WETA/14009
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 92141878002, 92141878004

METHOD BLANK: 890432
Matrix: Water
Associated Lab Samples: 92141878002, 92141878004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	ug/L	ND	10000	12/13/12 23:43	

LABORATORY CONTROL SAMPLE: 890433

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	ug/L	2500	2400J	96	90-110	

MATRIX SPIKE SAMPLE: 890434

Parameter	Units	92141812003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	ug/L	ND	2500	2260J	90	90-110	

MATRIX SPIKE SAMPLE: 890436

Parameter	Units	92141699008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	ug/L	ND	2500	2230J	89	90-110	M1

SAMPLE DUPLICATE: 890435

Parameter	Units	92141812003 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	ug/L	ND	ND		20	

SAMPLE DUPLICATE: 890437

Parameter	Units	92141699008 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Alexander LF (SWS & UIC)
Pace Project No.: 92141878

QC Batch: WETA/14120 Analysis Method: SM 4500-Cl-E
QC Batch Method: SM 4500-Cl-E Analysis Description: 4500 Chloride
Associated Lab Samples: 92141878001, 92141878002, 92141878003, 92141878004, 92141878005

METHOD BLANK: 897726 Matrix: Water
Associated Lab Samples: 92141878001, 92141878002, 92141878003, 92141878004, 92141878005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	ug/L	ND	1000	12/28/12 10:52	

LABORATORY CONTROL SAMPLE: 897727

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	ug/L	20000	19300	96	90-110	

MATRIX SPIKE SAMPLE: 897728

Parameter	Units	92141862016 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	ug/L	4070	20000	23700	98	75-125	

SAMPLE DUPLICATE: 897729

Parameter	Units	92141862017 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	ug/L	1280	1820	35	20	D6

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QUALITY CONTROL DATA

Project: Alexander LF (SWS & UIC)
Pace Project No.: 92141878

QC Batch: WETA/14127 Analysis Method: SM 5220D
QC Batch Method: SM 5220D Analysis Description: 5220D COD
Associated Lab Samples: 92141878001, 92141878002, 92141878003, 92141878004

METHOD BLANK: 897964 Matrix: Water
Associated Lab Samples: 92141878001, 92141878002, 92141878003, 92141878004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	ug/L	ND	25000	12/29/12 13:50	

LABORATORY CONTROL SAMPLE: 897965

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	ug/L	750000	751000	100	90-110	

MATRIX SPIKE SAMPLE: 897966

Parameter	Units	92141749002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	ug/L	375 mg/L	750000	1050000	90	75-125	

MATRIX SPIKE SAMPLE: 897968

Parameter	Units	92141869001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	ug/L	ND	750000	701000	93	75-125	

SAMPLE DUPLICATE: 897967

Parameter	Units	92141749002 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	ug/L	375 mg/L	368000	2	20	

SAMPLE DUPLICATE: 897969

Parameter	Units	92141869001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Alexander LF (SWS & UIC)
Pace Project No.: 92141878

QC Batch: WETA/14114 — Analysis Method: SM 5310B
QC Batch Method: SM 5310B — Analysis Description: 5310B TOC
Associated Lab Samples: 92141878001, 92141878002, 92141878003, 92141878004, 92141878005

METHOD BLANK: 897258 — Matrix: Water
Associated Lab Samples: 92141878001, 92141878002, 92141878003, 92141878004, 92141878005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	ug/L	ND	1000	12/27/12 19:20	

LABORATORY CONTROL SAMPLE: 897259

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	ug/L	25000	24200	97	90-110	

MATRIX SPIKE SAMPLE: 897260

Parameter	Units	92141862019 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	ug/L	10100	25000	30900	83	75-125	

MATRIX SPIKE SAMPLE: 897262

Parameter	Units	92141883002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	ug/L	1.4 mg/L	25000	25200	95	75-125	

SAMPLE DUPLICATE: 897261

Parameter	Units	92141869001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	ug/L	1.4 mg/L	1390	1	20	

SAMPLE DUPLICATE: 897263

Parameter	Units	92141883003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	ug/L	2.7 mg/L	2590	5	20	

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QUALIFIERS

Project: Alexander LF (SWS & UIC)
Pace Project No.: 92141878

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

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TNI - The NELAC Institute.

LABORATORIES

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

ANALYTE QUALIFIERS

B2	Oxygen usage is less than 2.0 for all dilutions set. The reported value is an estimated less than value and is calculated for the dilution using the most amount of sample.
D6	The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Alexander LF (SWS & UIC)
Pace Project No.: 92141878

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92141878001	**MW-11**	EPA 3010	MPRP/12212	EPA 6010	ICP/11160
92141878002	**MW-26**	EPA 3010	MPRP/12212	EPA 6010	ICP/11160
92141878003	**MW-27**	EPA 3010	MPRP/12212	EPA 6010	ICP/11160
92141878004	**MW-31**	EPA 3010	MPRP/12212	EPA 6010	ICP/11160
92141878005	**MW-3**	EPA 3010	MPRP/12212	EPA 6010	ICP/11160
92141878001	**MW-11**	EPA 7470	MERP/4769	EPA 7470	MERC/4662
92141878002	**MW-26**	EPA 7470	MERP/4774	EPA 7470	MERC/4667
92141878003	**MW-27**	EPA 7470	MERP/4774	EPA 7470	MERC/4667
92141878004	**MW-31**	EPA 7470	MERP/4774	EPA 7470	MERC/4667
92141878005	**MW-3**	EPA 7470	MERP/4774	EPA 7470	MERC/4667
92141878001	**MW-11**	EPA 8260	MSV/21492		
92141878002	**MW-26**	EPA 8260	MSV/21492		
92141878003	**MW-27**	EPA 8260	MSV/21492		
92141878004	**MW-31**	EPA 8260	MSV/21492		
92141878005	**MW-3**	EPA 8260	MSV/21492		
92141878001	**MW-11**	SM 2320B	WET/23585		
92141878002	**MW-26**	SM 2320B	WET/23585		
92141878003	**MW-27**	SM 2320B	WET/23585		
92141878004	**MW-31**	SM 2320B	WET/23585		
92141878005	**MW-3**	SM 2320B	WET/23624		
92141878001	**MW-11**	SM 4500-S2D	WET/23527		
92141878002	**MW-26**	SM 4500-S2D	WET/23527		
92141878003	**MW-27**	SM 4500-S2D	WET/23527		
92141878004	**MW-31**	SM 4500-S2D	WET/23527		
92141878005	**MW-3**	SM 4500-S2D	WET/23527		
92141878001	**MW-11**	SM 5210B	WET/23470	SM 5210B	WET/23471
92141878002	**MW-26**	SM 5210B	WET/23470	SM 5210B	WET/23471
92141878003	**MW-27**	SM 5210B	WET/23470	SM 5210B	WET/23471
92141878004	**MW-31**	SM 5210B	WET/23470	SM 5210B	WET/23471
92141878005	**MW-3**	SM 5210B	WET/23470	SM 5210B	WET/23471
92141878001	**MW-11**	EPA 300.0	WETA/14116		
92141878002	**MW-26**	EPA 300.0	WETA/14116		
92141878003	**MW-27**	EPA 300.0	WETA/14116		
92141878004	**MW-31**	EPA 300.0	WETA/14116		
92141878005	**MW-3**	EPA 300.0	WETA/14116		
92141878001	**MW-11**	EPA 353.2	WETA/14008		
92141878002	**MW-26**	EPA 353.2	WETA/14009		
92141878003	**MW-27**	EPA 353.2	WETA/14008		
92141878004	**MW-31**	EPA 353.2	WETA/14009		
92141878001	**MW-11**	SM 4500-Cl-E	WETA/14120		
92141878002	**MW-26**	SM 4500-Cl-E	WETA/14120		
92141878003	**MW-27**	SM 4500-Cl-E	WETA/14120		

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205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Alexander LF (SWS & UIC)
Pace Project No.: 92141878

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92141878004	**MW-31**	SM 4500-Cl-E	WETA/14120		
92141878005	**MW-3**	SM 4500-Cl-E	WETA/14120		
92141878001	**MW-11**	SM 5220D	WETA/14127		
92141878002	**MW-26**	SM 5220D	WETA/14127		
92141878003	**MW-27**	SM 5220D	WETA/14127		
92141878004	**MW-31**	SM 5220D	WETA/14127		
92141878001	**MW-11**	SM 5310B	WETA/14114		
92141878002	**MW-26**	SM 5310B	WETA/14114		
92141878003	**MW-27**	SM 5310B	WETA/14114		
92141878004	**MW-31**	SM 5310B	WETA/14114		
92141878005	**MW-3**	SM 5310B	WETA/14114		

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Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
Required Client Information:

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

Section B
Required Project Information:

Report To:	Jonathan Pfohl
Copy To:	
Purchase Order No.	
Client Project ID:	Alexander LF (SWS & UIC)
Container Order Number:	

Section C
Invoice Information:

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

Regulatory Agency

State / Location: North Carolina

Requested Analysis Filtered (Y/N)

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	VOCs Appendix 2	~~Total Metals Appendix 2~~	Alkalinity	Chloride	Sulfate	Sulfide	TOC	COD	BOD	Iron	Nitrate		92141878
																			N	N	N	N	N	N	N	N	N	N	N		
1	MW-3	WT	G	12/12/12	1:00					2		1	5				2		X	X		X	X	X	X	X		X			005
2	MW-11	WT	G		12:00					3		2	5				2		X	X		X	X	X	X	X	X	X	X		001
3	MW-26	WT	G		3:10					3		2	5				2		X	X		X	X	X	X	X	X	X	X		002
4	MW-27	WT	G		1:40					3		2	5				2		X	X		X	X	X	X	X	X	X	X		003
5	MW-31	WT	G		2:30					3		2	5				2		X	X		X	X	X	X	X	X	X	X		004
6																															
7																															
8																															
9																															
10																															
11																															
12																															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	MESCO	12/13/12	7:30	Pace	12/13	730				
	Pace	12/13/12	1455	Pace	12/13/12	1525	2.7	Y	N	Y

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

Pace Analytical	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: October 31, 2012 Page 1 of 2
	Document Number: **F-CHR-CS-03-rev.08**	Issuing Authority: Pace Huntersville Quality Office

Client Name: Municipal **Project #** 92141878

Where Received: ☒ Huntersville ☐ Asheville ☐ Eden ☐ Raleigh

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 T1101 T1102 **Type of Ice:** Wet Blue None ☒ Samples on ice, cooling process has begun

Temp Correction Factor **T1101**: No Correction **T1102**: No Correction

Corrected Cooler Temp.: 2.9 C **Biological Tissue Is Frozen:** Yes No N/A

Date and Initials of person examining contents: JEB 12/13/12

Temp should be above freezing to 6°C

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

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: JG **Date:** 12/13/12 **SRF Review:** JG **Date:** 12/14/12

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)

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

December 27, 2012

Kevin Herring
Pace Analytical Services, Inc.
9800 Kincey Avenue
Suite 100
Huntersville, NC 28078

RE: **ALEXANDER / 92141862**
Microseeps Workorder: 7634

Dear Kevin Herring:

Enclosed are the analytical results for sample(s) received by the laboratory on Tuesday, December 18, 2012. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Robbin Robl 12-28-12

Robbin Robl 12/27/2012
rrobl@microseeps.com

Customer Service Representative

Enclosures

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

Total Number of Pages 13

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LABORATORY ACCREDITATIONS & CERTIFICATIONS

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

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SAMPLE SUMMARY

Workorder: 7634 ALEXANDER / 92141862

Lab ID	Sample ID	Matrix	Date Collected	Date Received
76340001	MW-33	Bubble Strip	12/12/2012 09:30	12/18/2012 11:00
76340002	MW-33	Water	12/12/2012 09:30	12/18/2012 11:00
76340003	MW-34	Bubble Strip	12/12/2012 10:10	12/18/2012 11:00
76340004	MW-34	Water	12/12/2012 10:10	12/18/2012 11:00

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ANALYTICAL RESULTS

Workorder: 7634 ALEXANDER / 92141862

Lab ID: **76340001** Date Received: 12/18/2012 11:00 Matrix: Bubble Strip

Sample ID: **MW-33** Date Collected: 12/12/2012 09:30

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	**4.8**	ug/l	0.015	0.0020	1			12/19/2012 12:26	GT	
Ethane	**0.0011J**	ug/l	0.010	0.0010	1			12/19/2012 12:26	GT	
Ethene	**0.0070U**	ug/l	0.010	0.0070	1			12/19/2012 12:26	GT	
Hydrogen	**0.93**	nM	0.60	0.074	1			12/19/2012 12:26	GT	

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ANALYTICAL RESULTS

Workorder: 7634 ALEXANDER / 92141862

Lab ID: **76340002** Date Received: 12/18/2012 11:00 Matrix: Water

Sample ID: **MW-33** Date Collected: 12/12/2012 09:30

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	**0.032U**	mg/l	0.10	0.032	1			12/21/2012 00:35	KB	
Acetic Acid	**0.57**	mg/l	0.070	0.021	1			12/21/2012 00:35	KB	
Propionic Acid	**0.15**	mg/l	0.050	0.0040	1			12/21/2012 00:35	KB	
Butyric Acid	**0.0070U**	mg/l	0.050	0.0070	1			12/21/2012 00:35	KB	
Pyruvic Acid	**0.0040U**	mg/l	0.15	0.0040	1			12/21/2012 00:35	KB	

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ANALYTICAL RESULTS

Workorder: 7634 ALEXANDER / 92141862

Lab ID: **76340003** Date Received: 12/18/2012 11:00 Matrix: Bubble Strip

Sample ID: **MW-34** Date Collected: 12/12/2012 10:10

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	**0.073**	ug/l	0.015	0.0020	1			12/19/2012 12:38	GT	
Ethane	**0.0010U**	ug/l	0.010	0.0010	1			12/19/2012 12:38	GT	
Ethene	**0.0070U**	ug/l	0.010	0.0070	1			12/19/2012 12:38	GT	
Hydrogen	**0.38J**	nM	0.60	0.074	1			12/19/2012 12:38	GT	

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ANALYTICAL RESULTS

Workorder: 7634 ALEXANDER / 92141862

Lab ID: **76340004** Date Received: 12/18/2012 11:00 Matrix: Water

Sample ID: **MW-34** Date Collected: 12/12/2012 10:10

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	**0.090J**	mg/l	0.10	0.032	1			12/21/2012 01:17	KB	
Acetic Acid	**0.096**	mg/l	0.070	0.021	1			12/21/2012 01:17	KB	
Propionic Acid	**0.0040U**	mg/l	0.050	0.0040	1			12/21/2012 01:17	KB	
Butyric Acid	**0.0070U**	mg/l	0.050	0.0070	1			12/21/2012 01:17	KB	
Pyruvic Acid	**0.0040U**	mg/l	0.15	0.0040	1			12/21/2012 01:17	KB	

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ANALYTICAL RESULTS QUALIFIERS

Workorder: 7634 ALEXANDER / 92141862

PARAMETER QUALIFIERS

MDL	Method Detection Limit. Can be used synonymously with LOD; Limit Of Detection.
PQL	Practical Quanitation Limit. Can be used synonymously with LOQ; Limit Of Quantitation.
ND	Not detected at or above reporting limit.
DF	Dilution Factor.
S	Surrogate.
RPD	Relative Percent Difference.
% Rec	Percent Recovery.
U	Indicates the compound was analyzed for, but not detected at or above the noted concentration.
J	Estimated concentration greater than the set method detection limit (MDL) and less than the set reporting limit (PQL).

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QUALITY CONTROL DATA

Workorder: 7634 ALEXANDER / 92141862

QC Batch: DISG/2666 Analysis Method: AM20GAX

QC Batch Method: AM20GAX

Associated Lab Samples: 76340001, 76340003

METHOD BLANK: 16795

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
RISK				
Methane	ug/l	0.0020U	0.0020	
Ethane	ug/l	0.0010U	0.0010	
Ethene	ug/l	0.0070U	0.0070	

METHOD BLANK: 16797

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
RISK				
Hydrogen	nM	0.074U	0.074	

LABORATORY CONTROL SAMPLE & LCSD: 16798 16801

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK										
Methane	ug/l	8.4	8.3	8.3	99	99	80-120	0	20	
Ethane	ug/l	6.4	6.4	6.4	100	100	80-120	0	20	
Ethene	ug/l	16	16	16	99	99	80-120	0	20	

LABORATORY CONTROL SAMPLE & LCSD: 16800 16803

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK										
Hydrogen	nM	24	22	22	90	90	80-120	0	20	

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QUALITY CONTROL DATA

Workorder: 7634 ALEXANDER / 92141862

QC Batch: EDON/1625 Analysis Method: AM23G

QC Batch Method: AM23G

Associated Lab Samples: 76340002, 76340004

METHOD BLANK: 16875

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
EDonors				
Lactic Acid	mg/l	0.032U	0.032	
Acetic Acid	mg/l	0.021U	0.021	
Propionic Acid	mg/l	0.0040U	0.0040	
Butyric Acid	mg/l	0.0070U	0.0070	
Pyruvic Acid	mg/l	0.0040U	0.0040	

LABORATORY CONTROL SAMPLE: 16876

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
EDonors						
Lactic Acid	mg/l	2	2.0	98	70-130	
Acetic Acid	mg/l	2	2.0	100	70-130	
Propionic Acid	mg/l	2	2.0	99	70-130	
Butyric Acid	mg/l	2	1.9	97	70-130	
Pyruvic Acid	mg/l	2	2.0	100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 16877 16878 Original: 76080001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
EDonors											
Lactic Acid	mg/l	0.081	2	2.0	2.0	96	95	70-130	1	30	
Acetic Acid	mg/l	0.25	2	2.3	2.2	101	100	70-130	1	30	
Propionic Acid	mg/l	0	2	2.0	1.9	98	97	70-130	1	30	
Butyric Acid	mg/l	0	2	1.9	1.9	96	95	70-130	1	30	
Pyruvic Acid	mg/l	0	2	2.0	2.0	99	99	70-130	0	30	

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 7634 ALEXANDER / 92141862

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
76340001	MW-33			AM20GAX	DISG/2666
76340003	MW-34			AM20GAX	DISG/2666
76340002	MW-33			AM23G	EDON/1625
76340004	MW-34			AM23G	EDON/1625

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Chain of Custody

7634

Pace Analytical®
www.pacelabs.com

Workorder: 92141862 **Workorder Name:** ALEXANDER LF-SWS **Results Requested** 12/28/2012

Report / Invoice To	Subcontract To
Kevin Godwin Pace Analytical Charlotte 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 Phone (704)875-9092 Email: kevin.godwin@pacelabs.com	P.O. CHS 12084 Microseeps 220 William Pitt Way Pittsburg, PA 15238 412-826-5245

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved						Requested Analysis: Hydrogen AM20 GAX	Methane Ethane Ethene AM20GAX	VFA AM23G *									LAB USE ONLY
1	MW-33	12/12/2012 09:30	92141862016	Water	5						X	X	X									
2	MW-34	12/12/2012 10:10	92141862017	Water	5						X	X	X									
3																						
4																						
5																						

Transfers	Released By	Date/Time	Received By	Date/Time
1	Yei Gd	12/14/12 17:40	[illegible]	12-18-12
2				
3				

Comments

* report in units of ug/L
1100

Cooler Temperature on Receipt 2 °C **Custody Seal** Y or N **Received on Ice** Y or N **Samples Intact** Y or N

* report only: Acetic Acid
propionic Acid
Butyric Acid
Pyruvic Acid
Lactic Acid

Cooler Receipt Form

Client Name: Pace - H Project: Alexander/ 92141862 Lab Work Order: 7634

A. Shipping/Container Information (circle appropriate response)

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

Tracking Number: 4352 1312 4733

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

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

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

Cooler Temperature: 2°C Radiation Screened: Yes (No) Chain of Custody Present: (Yes) No

Comments:_____

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

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

Comments:_____

Cooler contents examined/received by: HCY Date: 12-18-12

Project Manager Review: RR Date: 12/18/12

Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515
www.encolabs.com

Monday, December 31, 2012

Municipal Engineering Services (MU001)

Attn: Jonathan Pfohl

P.O. Box 97

Garner, NC 27529

RE: Laboratory Results for
Project Number: G10003.0, Project Name/Desc: Alexander MSWLF
ENCO Workorder(s): C214412,C215099

Dear Jonathan Pfohl,

Enclosed is a copy of your laboratory report for test samples received by our laboratory between Wednesday, December 12, 2012 and Friday, December 14, 2012.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Stephanie Franz For Chuck Smith

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 243.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: MW-4R | **Lab ID: C214412-01** | **Sampled: 12/11/12 11:50** | **Received: 12/12/12 08:20**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	12/18/12	01/23/13	12/14/12	12:11	12/19/2012 15:39
EPA 8082A	12/11/13	01/23/13	12/14/12	12:43	12/19/2012 15:39
EPA 8151A	12/18/12	01/23/13	12/14/12	10:00	12/17/2012 16:28
EPA 8270D	12/18/12	01/26/13	12/17/12	06:36	12/30/2012 04:46
EPA 9014	12/25/12		12/13/12	14:55	12/14/2012 12:27

Client ID: MW-6 | **Lab ID: C214412-02RE1** | **Sampled: 12/11/12 09:20** | **Received: 12/12/12 08:20**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
RSK-175	12/25/12		12/13/12	16:14	12/14/2012 11:45

Client ID: MW-9 | **Lab ID: C214412-03** | **Sampled: 12/11/12 14:50** | **Received: 12/12/12 08:20**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	12/18/12	01/23/13	12/14/12	12:11	12/19/2012 15:52
EPA 8082A	12/11/13	01/23/13	12/14/12	12:43	12/19/2012 15:52
EPA 8151A	12/18/12	01/23/13	12/14/12	10:00	12/17/2012 16:54
EPA 8270D	12/18/12	01/26/13	12/17/12	06:36	12/30/2012 05:17
EPA 9014	12/25/12		12/13/12	14:55	12/14/2012 12:34

Client ID: MW-10 | **Lab ID: C214412-04** | **Sampled: 12/11/12 13:05** | **Received: 12/12/12 08:20**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	12/18/12	01/23/13	12/14/12	12:11	12/20/2012 16:51
EPA 8082A	12/11/13	01/23/13	12/14/12	12:43	12/20/2012 16:51
EPA 8151A	12/18/12	01/23/13	12/14/12	10:00	12/17/2012 17:19
EPA 8270D	12/18/12	01/26/13	12/17/12	06:36	12/30/2012 05:48
EPA 9014	12/25/12		12/13/12	14:55	12/14/2012 12:36

Client ID: MW-13 | **Lab ID: C214412-05** | **Sampled: 12/11/12 08:40** | **Received: 12/12/12 08:20**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	12/18/12	01/23/13	12/14/12	12:11	12/19/2012 16:19
EPA 8082A	12/11/13	01/23/13	12/14/12	12:43	12/19/2012 16:19
EPA 8151A	12/18/12	01/23/13	12/14/12	10:00	12/18/2012 11:23
EPA 8270D	12/18/12	01/26/13	12/17/12	06:36	12/30/2012 06:18
EPA 9014	12/25/12		12/13/12	14:55	12/14/2012 12:42

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Client ID: MW-14	Lab ID: C214412-06	Sampled: 12/11/12 15:35	Received: 12/12/12 08:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 8081B	12/18/12	01/23/13	12/14/12	12:11	12/19/2012	16:32
EPA 8082A	12/11/13	01/23/13	12/14/12	12:43	12/19/2012	16:32
EPA 8151A	12/18/12	01/23/13	12/14/12	10:00	12/18/2012	11:48
EPA 8270D	12/18/12	01/26/13	12/17/12	06:36	12/30/2012	06:49
EPA 9014	12/25/12		12/13/12	14:55	12/14/2012	12:44

Client ID: MW-15	Lab ID: C214412-07	Sampled: 12/11/12 14:00	Received: 12/12/12 08:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 8081B	12/18/12	01/23/13	12/14/12	12:11	12/19/2012	16:45
EPA 8082A	12/11/13	01/23/13	12/14/12	12:43	12/19/2012	16:45
EPA 8151A	12/18/12	01/23/13	12/14/12	10:00	12/18/2012	12:13
EPA 8270D	12/18/12	01/26/13	12/17/12	06:36	12/30/2012	07:20
EPA 9014	12/25/12		12/13/12	14:55	12/14/2012	12:46

Client ID: MW-20	Lab ID: C214412-08	Sampled: 12/11/12 16:40	Received: 12/12/12 08:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 8081B	12/18/12	01/23/13	12/14/12	12:11	12/19/2012	16:58
EPA 8082A	12/11/13	01/23/13	12/14/12	12:43	12/19/2012	16:58
EPA 8151A	12/18/12	01/23/13	12/14/12	10:00	12/18/2012	12:39
EPA 8270D	12/18/12	01/26/13	12/17/12	06:36	12/30/2012	07:50
EPA 9014	12/25/12		12/13/12	14:55	12/14/2012	12:48

Client ID: MW-17	Lab ID: C214412-09	Sampled: 12/10/12 15:25	Received: 12/12/12 08:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 8081B	12/17/12	01/23/13	12/14/12	12:11	12/19/2012	17:12
EPA 8082A	12/10/13	01/23/13	12/14/12	12:43	12/19/2012	17:12
EPA 8151A	12/17/12	01/23/13	12/14/12	10:00	12/18/2012	13:05
EPA 8270D	12/17/12	01/26/13	12/17/12	06:36	12/30/2012	08:21
EPA 9014	12/24/12		12/13/12	14:55	12/14/2012	12:50

Client ID: MW-22	Lab ID: C214412-10	Sampled: 12/10/12 14:05	Received: 12/12/12 08:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 8081B	12/17/12	01/23/13	12/14/12	12:11	12/19/2012	17:38
EPA 8082A	12/10/13	01/23/13	12/14/12	12:43	12/19/2012	17:38
EPA 8151A	12/17/12	01/23/13	12/14/12	10:00	12/18/2012	13:30
EPA 8270D	12/17/12	01/26/13	12/17/12	06:36	12/30/2012	08:52
EPA 9014	12/24/12		12/13/12	11:25	12/14/2012	12:52

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Client ID: MW-21	Lab ID: C214412-11	Sampled: 12/10/12 14:45	Received: 12/12/12 08:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	12/17/12	01/23/13	12/14/12	12:11	12/19/2012 17:51
EPA 8082A	12/10/13	01/23/13	12/14/12	12:43	12/19/2012 17:51
EPA 8151A	12/17/12	01/23/13	12/14/12	10:00	12/18/2012 13:56
EPA 8270D	12/17/12	01/26/13	12/17/12	06:36	12/30/2012 09:22
EPA 9014	12/24/12		12/13/12	11:25	12/14/2012 12:53

Client ID: MW-23	Lab ID: C214412-12	Sampled: 12/10/12 13:00	Received: 12/12/12 08:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	12/17/12	01/23/13	12/14/12	12:11	12/19/2012 18:05
EPA 8082A	12/10/13	01/23/13	12/14/12	12:43	12/19/2012 18:05
EPA 8151A	12/17/12	01/23/13	12/14/12	10:00	12/18/2012 14:22
EPA 8270D	12/17/12	01/26/13	12/17/12	06:36	12/30/2012 09:53
EPA 9014	12/24/12		12/13/12	11:25	12/14/2012 12:55

Client ID: MW-32	Lab ID: C214412-13	Sampled: 12/11/12 10:05	Received: 12/12/12 08:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	12/18/12	01/27/13	12/18/12	10:18	12/27/2012 13:06
EPA 8082A	12/11/13	01/27/13	12/18/12	10:33	12/27/2012 13:06
EPA 8151A	12/18/12	01/27/13	12/18/12	05:30	12/19/2012 18:17
EPA 8270D	12/18/12	01/26/13	12/17/12	06:36	12/30/2012 10:23
EPA 9014	12/25/12		12/17/12	09:35	12/19/2012 10:48

Client ID: MW-19	Lab ID: C214412-14	Sampled: 12/11/12 16:05	Received: 12/12/12 08:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	12/18/12	01/27/13	12/18/12	10:18	12/27/2012 13:19
EPA 8082A	12/11/13	01/27/13	12/18/12	10:33	12/27/2012 13:19
EPA 8151A	12/18/12	01/27/13	12/18/12	05:30	12/19/2012 18:43
EPA 8270D	12/18/12	01/26/13	12/17/12	06:36	12/30/2012 10:54
EPA 9014	12/25/12		12/17/12	09:35	12/19/2012 10:51

Client ID: MW-3	Lab ID: C215099-01	Sampled: 12/12/12 13:00	Received: 12/14/12 08:45

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	12/19/12	01/27/13	12/18/12	10:18	12/27/2012 13:46
EPA 8082A	12/12/13	01/27/13	12/18/12	10:33	12/27/2012 13:46
EPA 8151A	12/19/12	01/27/13	12/18/12	18:00	12/22/2012 02:53
EPA 8270D	12/19/12	01/28/13	12/19/12	14:13	12/30/2012 15:48
EPA 9014	12/26/12		12/17/12	09:35	12/19/2012 10:53

Client ID: MW-5	Lab ID: C215099-02RE1	Sampled: 12/13/12 11:25	Received: 12/14/12 08:45

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
RSK-175	12/27/12		12/20/12	08:00	12/20/2012 15:22

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Client ID: MW-7	Lab ID: C215099-03	Sampled: 12/13/12 12:00	Received: 12/14/12 08:45

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	12/20/12	01/27/13	12/18/12	10:18	12/27/2012 13:59
EPA 8082A	12/13/13	01/27/13	12/18/12	10:33	12/27/2012 13:59
EPA 8151A	12/20/12	01/27/13	12/18/12	18:00	12/22/2012 03:18
EPA 8270D	12/20/12	01/28/13	12/19/12	14:13	12/30/2012 16:19
EPA 9014	12/27/12		12/17/12	09:35	12/19/2012 10:55

Client ID: MW-11	Lab ID: C215099-04	Sampled: 12/12/12 12:00	Received: 12/14/12 08:45

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	12/19/12	01/27/13	12/18/12	10:18	12/27/2012 14:12
EPA 8082A	12/12/13	01/27/13	12/18/12	10:33	12/27/2012 14:12
EPA 8151A	12/19/12	01/27/13	12/18/12	18:00	12/22/2012 03:44
EPA 8270D	12/19/12	01/28/13	12/19/12	14:13	12/30/2012 16:50
EPA 9014	12/26/12		12/17/12	13:05	12/19/2012 10:57

Client ID: MW-11	Lab ID: C215099-04RE1	Sampled: 12/12/12 12:00	Received: 12/14/12 08:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
RSK-175	12/26/12	12/20/12	08:00	12/20/2012 15:38

Client ID: MW-12 MS/MSD	Lab ID: C215099-05	Sampled: 12/12/12 16:40	Received: 12/14/12 08:45

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	12/19/12	01/27/13	12/18/12	10:18	12/27/2012 13:32
EPA 8082A	12/12/13	01/27/13	12/18/12	10:33	12/27/2012 13:32
EPA 8151A	12/19/12	01/27/13	12/18/12	18:00	12/22/2012 02:27
EPA 8270D	12/19/12	01/28/13	12/19/12	14:13	12/30/2012 17:21
EPA 9014	12/26/12		12/17/12	09:35	12/19/2012 10:42

Client ID: MW-12 MS/MSD	Lab ID: C215099-05RE1	Sampled: 12/12/12 16:40	Received: 12/14/12 08:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
RSK-175	12/26/12	12/20/12	08:00	12/20/2012 15:54

Client ID: MW-12D	Lab ID: C215099-06	Sampled: 12/12/12 16:05	Received: 12/14/12 08:45

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	12/19/12	01/27/13	12/18/12	10:18	12/27/2012 14:39
EPA 8082A	12/12/13	01/27/13	12/18/12	10:33	12/27/2012 14:39
EPA 8151A	12/19/12	01/27/13	12/18/12	18:00	12/22/2012 04:09
EPA 8270D	12/19/12	01/28/13	12/19/12	14:13	12/30/2012 17:52
EPA 9014	12/26/12		12/17/12	13:05	12/19/2012 10:59

Client ID: MW-12D	Lab ID: C215099-06RE1	Sampled: 12/12/12 16:05	Received: 12/14/12 08:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
RSK-175	12/26/12	12/20/12	08:00	12/20/2012 16:26

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Client ID: EB	Lab ID: C215099-07	Sampled: 12/13/12 08:30	Received: 12/14/12 08:45

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8270D	12/20/12	01/28/13	12/19/12	14:13	12/30/2012 18:23

Client ID: MW-16	Lab ID: C215099-08	Sampled: 12/13/12 13:30	Received: 12/14/12 08:45

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	12/20/12	01/28/13	12/19/12	08:20	12/27/2012 14:52
EPA 8082A	12/13/13	01/28/13	12/19/12	08:20	12/27/2012 14:52
EPA 8151A	12/20/12	01/27/13	12/18/12	18:00	12/22/2012 04:35
EPA 8270D	12/20/12	01/28/13	12/19/12	14:13	12/30/2012 18:53
EPA 9014	12/27/12		12/17/12	13:05	12/19/2012 11:20

Client ID: MW-16	Lab ID: C215099-08RE1	Sampled: 12/13/12 13:30	Received: 12/14/12 08:45

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
RSK-175	12/27/12		12/20/12	08:00	12/20/2012 16:42

Client ID: MW-18	Lab ID: C215099-09	Sampled: 12/12/12 09:00	Received: 12/14/12 08:45

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	12/19/12	01/28/13	12/19/12	08:20	12/27/2012 15:05
EPA 8082A	12/12/13	01/28/13	12/19/12	08:20	12/27/2012 15:05
EPA 8151A	12/19/12	01/27/13	12/18/12	18:00	12/22/2012 05:00
EPA 8270D	12/19/12	01/28/13	12/19/12	14:13	12/30/2012 19:24
EPA 9014	12/26/12		12/17/12	13:05	12/19/2012 11:22
RSK-175	12/26/12		12/20/12	08:00	12/20/2012 12:20

Client ID: MW-24	Lab ID: C215099-10	Sampled: 12/12/12 11:00	Received: 12/14/12 08:45

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	12/19/12	01/28/13	12/19/12	08:20	12/27/2012 15:18
EPA 8082A	12/12/13	01/28/13	12/19/12	08:20	12/27/2012 15:18
EPA 8151A	12/19/12	01/27/13	12/18/12	18:00	12/22/2012 05:26
EPA 8270D	12/19/12	01/28/13	12/19/12	14:13	12/30/2012 19:55
EPA 9014	12/26/12		12/17/12	13:05	12/19/2012 11:24
RSK-175	12/26/12		12/20/12	08:00	12/20/2012 12:36

Client ID: MW-25	Lab ID: C215099-11RE1	Sampled: 12/13/12 10:40	Received: 12/14/12 08:45

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
RSK-175	12/27/12		12/20/12	08:00	12/20/2012 16:59

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Client ID: MW-26	Lab ID: C215099-12	Sampled: 12/12/12 13:10	Received: 12/14/12 08:45

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	12/19/12	01/28/13	12/19/12	08:20	12/27/2012 15:31
EPA 8082A	12/12/13	01/28/13	12/19/12	08:20	12/27/2012 15:31
EPA 8151A	12/19/12	01/27/13	12/18/12	18:00	12/22/2012 05:51
EPA 8270D	12/19/12	01/28/13	12/19/12	14:13	12/30/2012 20:25
EPA 9014	12/26/12		12/17/12	13:05	12/19/2012 11:26

Client ID: MW-26	Lab ID: C215099-12RE1	Sampled: 12/12/12 13:10	Received: 12/14/12 08:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
RSK-175	12/26/12	12/20/12	08:00	12/20/2012 17:15

Client ID: MW-27	Lab ID: C215099-13	Sampled: 12/12/12 13:40	Received: 12/14/12 08:45

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	12/19/12	01/28/13	12/19/12	08:20	12/27/2012 15:45
EPA 8082A	12/12/13	01/28/13	12/19/12	08:20	12/27/2012 15:45
EPA 8151A	12/19/12	01/27/13	12/18/12	18:00	12/22/2012 06:16
EPA 8270D	12/19/12	01/28/13	12/19/12	14:13	12/30/2012 20:56
EPA 9014	12/26/12		12/17/12	13:05	12/19/2012 11:28
RSK-175	12/26/12		12/20/12	08:00	12/20/2012 13:24

Client ID: MW-31	Lab ID: C215099-14	Sampled: 12/12/12 14:30	Received: 12/14/12 08:45

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	12/19/12	01/28/13	12/19/12	08:20	12/27/2012 15:58
EPA 8082A	12/12/13	01/28/13	12/19/12	08:20	12/27/2012 15:58
EPA 8151A	12/19/12	01/27/13	12/18/12	18:00	12/22/2012 06:42
EPA 8270D	12/19/12	01/28/13	12/19/12	14:13	12/30/2012 21:27
EPA 9014	12/26/12		12/17/12	13:05	12/19/2012 11:30

Client ID: MW-31	Lab ID: C215099-14RE1	Sampled: 12/12/12 14:30	Received: 12/14/12 08:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
RSK-175	12/26/12	12/20/12	08:00	12/20/2012 17:31

Client ID: MW-34	Lab ID: C215099-15	Sampled: 12/12/12 10:10	Received: 12/14/12 08:45

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	12/19/12	01/28/13	12/19/12	08:20	12/27/2012 16:11
EPA 8082A	12/12/13	01/28/13	12/19/12	08:20	12/27/2012 16:11
EPA 8151A	12/19/12	01/27/13	12/18/12	18:00	12/22/2012 07:07
EPA 8270D	12/19/12	01/28/13	12/19/12	14:13	12/30/2012 21:57
EPA 9014	12/26/12		12/17/12	13:05	12/19/2012 11:31

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Client ID: MW-33	Lab ID: C215099-16	Sampled: 12/12/12 09:30	Received: 12/14/12 08:45

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	12/19/12	01/28/13	12/19/12	08:20	12/27/2012 16:24
EPA 8082A	12/12/13	01/28/13	12/19/12	08:20	12/27/2012 16:24
EPA 8151A	12/19/12	01/27/13	12/18/12	18:00	12/22/2012 07:33
EPA 8270D	12/19/12	01/28/13	12/19/12	14:13	12/30/2012 22:28
EPA 9014	12/26/12		12/17/12	13:05	12/19/2012 11:33

Client ID: MW-1	Lab ID: C215099-17	Sampled: 12/13/12 15:00	Received: 12/14/12 08:45

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	12/20/12	01/28/13	12/19/12	08:20	12/27/2012 16:38
EPA 8082A	12/13/13	01/28/13	12/19/12	08:20	12/27/2012 16:38
EPA 8151A	12/20/12	01/27/13	12/18/12	18:00	12/22/2012 07:58
EPA 8270D	12/20/12	01/28/13	12/19/12	14:13	12/30/2012 22:59
EPA 9014	12/27/12		12/19/12	13:30	12/19/2012 19:03

Client ID: MW-1B	Lab ID: C215099-18	Sampled: 12/13/12 14:20	Received: 12/14/12 08:45

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	12/20/12	01/28/13	12/19/12	08:20	12/27/2012 17:04
EPA 8082A	12/13/13	01/28/13	12/19/12	08:20	12/27/2012 17:04
EPA 8151A	12/20/12	01/27/13	12/18/12	18:00	12/22/2012 08:24
EPA 8270D	12/20/12	01/28/13	12/19/12	14:13	12/30/2012 23:29
EPA 9014	12/27/12		12/19/12	13:30	12/19/2012 19:04

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: MW-6 **Lab ID: C214412-02RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Methane	0.501	D	10	0.00430	0.0100	NE	mg/L	RSK-175	

Client ID: MW-5 **Lab ID: C215099-02RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Methane	2.28	D	100	0.0430	0.100	NE	mg/L	RSK-175	

Client ID: MW-11 **Lab ID: C215099-04RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Methane	4.58	D	100	0.0430	0.100	NE	mg/L	RSK-175	

Client ID: MW-12 MS/MSD **Lab ID: C215099-05RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Methane	7.40	D	100	0.0430	0.100	NE	mg/L	RSK-175	

Client ID: MW-12D **Lab ID: C215099-06**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Di-n-octylphthalate	3.1	J	1	3.1	10	10	ug/L	EPA 8270D	

Client ID: MW-12D **Lab ID: C215099-06RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Methane	4.08	D	100	0.0430	0.100	NE	mg/L	RSK-175	

Client ID: MW-16 **Lab ID: C215099-08RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Methane	7.91	D	100	0.0430	0.100	NE	mg/L	RSK-175	

Client ID: MW-18 **Lab ID: C215099-09**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Cyanide (total)	6.6	J	1	4.9	10	10	ug/L	EPA 9014	
Methane	0.000900	J	1	0.000430	0.00100	NE	mg/L	RSK-175	

Client ID: MW-24 **Lab ID: C215099-10**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Methane	0.000731	J	1	0.000430	0.00100	NE	mg/L	RSK-175	

Client ID: MW-25 **Lab ID: C215099-11RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Methane	3.45	D	100	0.0430	0.100	NE	mg/L	RSK-175	

Client ID: MW-26 **Lab ID: C215099-12RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Methane	0.524	D	10	0.00430	0.0100	NE	mg/L	RSK-175	

Client ID: MW-27 **Lab ID: C215099-13**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Methane	0.00153		1	0.000430	0.00100	NE	mg/L	RSK-175	

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Client ID:	MW-31				Lab ID:	C215099-14RE1			
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Methane	0.115	D	10	0.00430	0.0100	NE	mg/L	RSK-175	

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ANALYTICAL RESULTS

Description: MW-4R
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C214412-01
Sampled: 12/11/12 11:50
Sampled By:

Received: 12/12/12 08:20
Work Order: C214412

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 04:46	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 04:46	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	12/30/12 04:46	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 04:46	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	12/30/12 04:46	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 04:46	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 04:46	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 04:46	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 04:46	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 04:46	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 04:46	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	12/30/12 04:46	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 04:46	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 04:46	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 04:46	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	12/30/12 04:46	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 04:46	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 04:46	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	12/30/12 04:46	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 04:46	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 04:46	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 04:46	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	12/30/12 04:46	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 04:46	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 04:46	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	12/30/12 04:46	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 04:46	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 04:46	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	12/30/12 04:46	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	12/30/12 04:46	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 04:46	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	12/30/12 04:46	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 04:46	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 04:46	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	12/30/12 04:46	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	12/30/12 04:46	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	12/30/12 04:46	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 04:46	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 04:46	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 04:46	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 04:46	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 04:46	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 04:46	DFM	

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Description: MW-4R | **Lab Sample ID:** C214412-01 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/11/12 11:50 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:**

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 04:46	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 04:46	DFM	
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 04:46	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 04:46	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	12/30/12 04:46	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 04:46	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 04:46	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 04:46	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	12/30/12 04:46	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 04:46	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 04:46	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 04:46	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 04:46	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	12/30/12 04:46	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 04:46	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 04:46	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 04:46	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 04:46	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 04:46	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	12/30/12 04:46	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 04:46	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 04:46	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 04:46	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 04:46	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 04:46	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 04:46	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 04:46	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 04:46	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 04:46	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 04:46	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 04:46	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 04:46	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 04:46	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 04:46	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	12/30/12 04:46	DFM	QV-01
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	12/30/12 04:46	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 04:46	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 04:46	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 04:46	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	12/30/12 04:46	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 04:46	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 04:46	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 04:46	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 04:46	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 04:46	DFM	

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Description: MW-4R
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C214412-01
Sampled: 12/11/12 11:50
Sampled By:

Received: 12/12/12 08:20
Work Order: C214412

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	12/30/12 04:46	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 04:46	DFM	
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 04:46	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 04:46	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 04:46	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 04:46	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 04:46	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 04:46	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 04:46	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 04:46	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 04:46	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 04:46	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 04:46	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 04:46	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 04:46	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 04:46	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*110*	*1*	*100*	*108 %*	*10-179*	*2L17001*	*EPA 8270D*	*12/30/12 04:46*	*DFM*	
2-Fluorobiphenyl	*45*	*1*	*50.0*	*90 %*	*10-149*	*2L17001*	*EPA 8270D*	*12/30/12 04:46*	*DFM*	
2-Fluorophenol	*67*	*1*	*100*	*67 %*	*10-110*	*2L17001*	*EPA 8270D*	*12/30/12 04:46*	*DFM*	
Nitrobenzene-d5	*42*	*1*	*50.0*	*83 %*	*10-149*	*2L17001*	*EPA 8270D*	*12/30/12 04:46*	*DFM*	
Phenol-d5	*52*	*1*	*100*	*52 %*	*10-88*	*2L17001*	*EPA 8270D*	*12/30/12 04:46*	*DFM*	
Terphenyl-d14	*55*	*1*	*50.0*	*110 %*	*10-188*	*2L17001*	*EPA 8270D*	*12/30/12 04:46*	*DFM*	

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Description: MW-4R
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C214412-01
Sampled: 12/11/12 11:50
Sampled By:

Received: 12/12/12 08:20
Work Order: C214412

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	12/19/12 15:39	MSZ	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	12/19/12 15:39	MSZ	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	12/19/12 15:39	MSZ	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	12/19/12 15:39	MSZ	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	12/19/12 15:39	MSZ	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	12/19/12 15:39	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	12/19/12 15:39	MSZ	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	12/19/12 15:39	MSZ	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	12/19/12 15:39	MSZ	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	12/19/12 15:39	MSZ	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	12/19/12 15:39	MSZ	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	12/19/12 15:39	MSZ	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	12/19/12 15:39	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	12/19/12 15:39	MSZ	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	12/19/12 15:39	MSZ	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	12/19/12 15:39	MSZ	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	12/19/12 15:39	MSZ	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	12/19/12 15:39	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	12/19/12 15:39	MSZ	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	12/19/12 15:39	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	12/19/12 15:39	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.92*	*1*	*1.00*	*92 %*	*44-134*	*2L14018*	*EPA 8081B*	*12/19/12 15:39*	*MSZ*	
Decachlorobiphenyl	*0.94*	*1*	*1.00*	*94 %*	*37-149*	*2L14018*	*EPA 8081B*	*12/19/12 15:39*	*MSZ*	

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Description: MW-4R
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C214412-01
Sampled: 12/11/12 11:50
Sampled By:

Received: 12/12/12 08:20
Work Order: C214412

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.19	U	ug/L	1	0.19	0.50	2	EPA 8082A	12/19/12 15:39	MSZ	
PCB-1221 [11104-28-2] ^	0.046	U	ug/L	1	0.046	0.50	NE	EPA 8082A	12/19/12 15:39	MSZ	
PCB-1232 [11141-16-5] ^	0.028	U	ug/L	1	0.028	0.50	NE	EPA 8082A	12/19/12 15:39	MSZ	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	12/19/12 15:39	MSZ	
PCB-1254 [11097-69-1] ^	0.015	U	ug/L	1	0.015	0.50	NE	EPA 8082A	12/19/12 15:39	MSZ	
PCB-1260 [11096-82-5] ^	0.13	U	ug/L	1	0.13	0.50	NE	EPA 8082A	12/19/12 15:39	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.92*	*1*	*1.00*	*92 %*	*45-151*	*2L14021*	*EPA 8082A*	*12/19/12 15:39*	*MSZ*	
Decachlorobiphenyl	*0.94*	*1*	*1.00*	*94 %*	*42-159*	*2L14021*	*EPA 8082A*	*12/19/12 15:39*	*MSZ*	

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Description: MW-4R
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C214412-01
Sampled: 12/11/12 11:50
Sampled By:

Received: 12/12/12 08:20
Work Order: C214412

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	4.9	U	ug/L	1	4.9	10	10	EPA 9014	12/14/12 12:27	AJB	

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Description: MW-4R
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C214412-01
Sampled: 12/11/12 11:50
Sampled By:

Received: 12/12/12 08:20
Work Order: C214412

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.23	U	ug/L	1	0.23	0.50	2	EPA 8151A	12/17/12 16:28	RGG	QL-02
2,4,5-TP (Silvex) [93-72-1] ^	0.20	U	ug/L	1	0.20	0.50	2	EPA 8151A	12/17/12 16:28	RGG	QL-02
2,4-D [94-75-7] ^	0.16	U	ug/L	1	0.16	0.50	2	EPA 8151A	12/17/12 16:28	RGG	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	12/17/12 16:28	RGG	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	12/17/12 16:28	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*1.9*	*1*	*2.00*	*94 %*	*68-139*	*2L13009*	*EPA 8151A*	*12/17/12 16:28*	*RGG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: MW-6
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C214412-02
Sampled: 12/11/12 09:20
Sampled By: Jonathan Pfohl

Received: 12/12/12 08:20
Work Order: C214412

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Methane [74-82-8]	**0.501**	D	mg/L	10	0.00430	0.0100	NE	RSK-175	12/14/12 11:45	GMB	

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Description: MW-9 **Lab Sample ID:** C214412-03 **Received:** 12/12/12 08:20

Matrix: Ground Water **Sampled:** 12/11/12 14:50 **Work Order:** C214412

Project: Alexander MSWLF **Sampled By:**

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 05:17	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 05:17	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	12/30/12 05:17	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 05:17	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	12/30/12 05:17	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 05:17	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 05:17	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 05:17	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 05:17	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 05:17	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 05:17	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	12/30/12 05:17	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 05:17	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 05:17	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 05:17	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	12/30/12 05:17	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 05:17	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 05:17	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	12/30/12 05:17	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 05:17	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 05:17	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 05:17	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	12/30/12 05:17	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 05:17	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 05:17	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	12/30/12 05:17	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 05:17	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 05:17	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	12/30/12 05:17	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	12/30/12 05:17	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 05:17	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	12/30/12 05:17	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 05:17	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 05:17	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	12/30/12 05:17	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	12/30/12 05:17	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	12/30/12 05:17	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 05:17	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 05:17	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 05:17	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 05:17	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 05:17	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 05:17	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 05:17	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 05:17	DFM	

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Description: MW-9 | **Lab Sample ID:** C214412-03 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/11/12 14:50 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:**

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 05:17	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 05:17	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	12/30/12 05:17	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 05:17	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 05:17	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 05:17	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	12/30/12 05:17	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 05:17	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 05:17	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 05:17	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 05:17	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	12/30/12 05:17	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 05:17	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 05:17	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 05:17	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 05:17	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 05:17	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	12/30/12 05:17	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 05:17	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 05:17	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 05:17	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 05:17	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 05:17	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 05:17	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 05:17	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 05:17	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 05:17	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 05:17	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 05:17	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 05:17	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 05:17	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 05:17	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	12/30/12 05:17	DFM	QV-01
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	12/30/12 05:17	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 05:17	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 05:17	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 05:17	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	12/30/12 05:17	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 05:17	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 05:17	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 05:17	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 05:17	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 05:17	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	12/30/12 05:17	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 05:17	DFM	

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Description: MW-9 | **Lab Sample ID:** C214412-03 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/11/12 14:50 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:**

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 05:17	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 05:17	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 05:17	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 05:17	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 05:17	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 05:17	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 05:17	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 05:17	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 05:17	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 05:17	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 05:17	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 05:17	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 05:17	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 05:17	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*90*	*1*	*100*	*90 %*	*10-179*	*2L17001*	*EPA 8270D*	*12/30/12 05:17*	*DFM*	
2-Fluorobiphenyl	*42*	*1*	*50.0*	*84 %*	*10-149*	*2L17001*	*EPA 8270D*	*12/30/12 05:17*	*DFM*	
2-Fluorophenol	*56*	*1*	*100*	*56 %*	*10-110*	*2L17001*	*EPA 8270D*	*12/30/12 05:17*	*DFM*	
Nitrobenzene-d5	*39*	*1*	*50.0*	*78 %*	*10-149*	*2L17001*	*EPA 8270D*	*12/30/12 05:17*	*DFM*	
Phenol-d5	*41*	*1*	*100*	*41 %*	*10-88*	*2L17001*	*EPA 8270D*	*12/30/12 05:17*	*DFM*	
Terphenyl-d14	*48*	*1*	*50.0*	*95 %*	*10-188*	*2L17001*	*EPA 8270D*	*12/30/12 05:17*	*DFM*	

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Description: MW-9 | **Lab Sample ID:** C214412-03 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/11/12 14:50 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:**

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	12/19/12 15:52	MSZ	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	12/19/12 15:52	MSZ	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	12/19/12 15:52	MSZ	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	12/19/12 15:52	MSZ	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	12/19/12 15:52	MSZ	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	12/19/12 15:52	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	12/19/12 15:52	MSZ	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	12/19/12 15:52	MSZ	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	12/19/12 15:52	MSZ	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	12/19/12 15:52	MSZ	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	12/19/12 15:52	MSZ	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	12/19/12 15:52	MSZ	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	12/19/12 15:52	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	12/19/12 15:52	MSZ	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	12/19/12 15:52	MSZ	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	12/19/12 15:52	MSZ	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	12/19/12 15:52	MSZ	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	12/19/12 15:52	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	12/19/12 15:52	MSZ	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	12/19/12 15:52	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	12/19/12 15:52	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.1*	*1*	*1.00*	*109 %*	*44-134*	*2L14018*	*EPA 8081B*	*12/19/12 15:52*	*MSZ*	
Decachlorobiphenyl	*1.2*	*1*	*1.00*	*117 %*	*37-149*	*2L14018*	*EPA 8081B*	*12/19/12 15:52*	*MSZ*	

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Description: MW-9 | **Lab Sample ID:** C214412-03 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/11/12 14:50 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:**

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.19	U	ug/L	1	0.19	0.50	2	EPA 8082A	12/19/12 15:52	MSZ	
PCB-1221 [11104-28-2] ^	0.046	U	ug/L	1	0.046	0.50	NE	EPA 8082A	12/19/12 15:52	MSZ	
PCB-1232 [11141-16-5] ^	0.028	U	ug/L	1	0.028	0.50	NE	EPA 8082A	12/19/12 15:52	MSZ	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	12/19/12 15:52	MSZ	
PCB-1254 [11097-69-1] ^	0.015	U	ug/L	1	0.015	0.50	NE	EPA 8082A	12/19/12 15:52	MSZ	
PCB-1260 [11096-82-5] ^	0.13	U	ug/L	1	0.13	0.50	NE	EPA 8082A	12/19/12 15:52	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.1*	*1*	*1.00*	*109 %*	*45-151*	*2L14021*	*EPA 8082A*	*12/19/12 15:52*	*MSZ*	
Decachlorobiphenyl	*1.2*	*1*	*1.00*	*117 %*	*42-159*	*2L14021*	*EPA 8082A*	*12/19/12 15:52*	*MSZ*	

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Description: MW-9 | **Lab Sample ID:** C214412-03 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/11/12 14:50 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:**

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	4.9	U	ug/L	1	4.9	10	10	EPA 9014	12/14/12 12:34	AJB	

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Description: MW-9 | **Lab Sample ID:** C214412-03 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/11/12 14:50 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:**

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.23	U	ug/L	1	0.23	0.50	2	EPA 8151A	12/17/12 16:54	RGG	QL-02
2,4,5-TP (Silvex) [93-72-1] ^	0.20	U	ug/L	1	0.20	0.50	2	EPA 8151A	12/17/12 16:54	RGG	QL-02
2,4-D [94-75-7] ^	0.16	U	ug/L	1	0.16	0.50	2	EPA 8151A	12/17/12 16:54	RGG	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	12/17/12 16:54	RGG	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	12/17/12 16:54	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*1.9*	*1*	*2.00*	*96 %*	*68-139*	*2L13009*	*EPA 8151A*	*12/17/12 16:54*	*RGG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: MW-10 | **Lab Sample ID:** C214412-04 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/11/12 13:05 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 05:48	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 05:48	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	12/30/12 05:48	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 05:48	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	12/30/12 05:48	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 05:48	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 05:48	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 05:48	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 05:48	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 05:48	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 05:48	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	12/30/12 05:48	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 05:48	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 05:48	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 05:48	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	12/30/12 05:48	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 05:48	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 05:48	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	12/30/12 05:48	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 05:48	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 05:48	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 05:48	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	12/30/12 05:48	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 05:48	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 05:48	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	12/30/12 05:48	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 05:48	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 05:48	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	12/30/12 05:48	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	12/30/12 05:48	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 05:48	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	12/30/12 05:48	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 05:48	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 05:48	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	12/30/12 05:48	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	12/30/12 05:48	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	12/30/12 05:48	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 05:48	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 05:48	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 05:48	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 05:48	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 05:48	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 05:48	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 05:48	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 05:48	DFM	

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Description: MW-10 | **Lab Sample ID:** C214412-04 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/11/12 13:05 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 05:48	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 05:48	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	12/30/12 05:48	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 05:48	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 05:48	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 05:48	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	12/30/12 05:48	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 05:48	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 05:48	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 05:48	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 05:48	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	12/30/12 05:48	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 05:48	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 05:48	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 05:48	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 05:48	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 05:48	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	12/30/12 05:48	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 05:48	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 05:48	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 05:48	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 05:48	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 05:48	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 05:48	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 05:48	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 05:48	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 05:48	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 05:48	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 05:48	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 05:48	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 05:48	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 05:48	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	12/30/12 05:48	DFM	QV-01
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	12/30/12 05:48	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 05:48	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 05:48	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 05:48	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	12/30/12 05:48	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 05:48	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 05:48	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 05:48	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 05:48	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 05:48	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	12/30/12 05:48	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 05:48	DFM	

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Description: MW-10 | **Lab Sample ID:** C214412-04 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/11/12 13:05 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 05:48	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 05:48	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 05:48	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 05:48	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 05:48	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 05:48	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 05:48	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 05:48	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 05:48	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 05:48	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 05:48	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 05:48	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 05:48	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 05:48	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*93*	*1*	*100*	*93 %*	*10-179*	*2L17001*	*EPA 8270D*	*12/30/12 05:48*	*DFM*	
2-Fluorobiphenyl	*42*	*1*	*50.0*	*85 %*	*10-149*	*2L17001*	*EPA 8270D*	*12/30/12 05:48*	*DFM*	
2-Fluorophenol	*62*	*1*	*100*	*62 %*	*10-110*	*2L17001*	*EPA 8270D*	*12/30/12 05:48*	*DFM*	
Nitrobenzene-d5	*38*	*1*	*50.0*	*76 %*	*10-149*	*2L17001*	*EPA 8270D*	*12/30/12 05:48*	*DFM*	
Phenol-d5	*46*	*1*	*100*	*46 %*	*10-88*	*2L17001*	*EPA 8270D*	*12/30/12 05:48*	*DFM*	
Terphenyl-d14	*50*	*1*	*50.0*	*101 %*	*10-188*	*2L17001*	*EPA 8270D*	*12/30/12 05:48*	*DFM*	

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Description: MW-10 | **Lab Sample ID:** C214412-04 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/11/12 13:05 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	12/20/12 16:51	MSZ	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	12/20/12 16:51	MSZ	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	12/20/12 16:51	MSZ	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	12/20/12 16:51	MSZ	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	12/20/12 16:51	MSZ	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	12/20/12 16:51	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	12/20/12 16:51	MSZ	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	12/20/12 16:51	MSZ	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	12/20/12 16:51	MSZ	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	12/20/12 16:51	MSZ	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	12/20/12 16:51	MSZ	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	12/20/12 16:51	MSZ	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	12/20/12 16:51	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	12/20/12 16:51	MSZ	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	12/20/12 16:51	MSZ	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	12/20/12 16:51	MSZ	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	12/20/12 16:51	MSZ	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	12/20/12 16:51	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	12/20/12 16:51	MSZ	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	12/20/12 16:51	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	12/20/12 16:51	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.85*	*1*	*1.00*	*85 %*	*44-134*	*2L14018*	*EPA 8081B*	*12/20/12 16:51*	*MSZ*	
Decachlorobiphenyl	*0.91*	*1*	*1.00*	*91 %*	*37-149*	*2L14018*	*EPA 8081B*	*12/20/12 16:51*	*MSZ*	

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Description: MW-10 | **Lab Sample ID:** C214412-04 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/11/12 13:05 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.19	U	ug/L	1	0.19	0.50	2	EPA 8082A	12/20/12 16:51	MSZ	
PCB-1221 [11104-28-2] ^	0.046	U	ug/L	1	0.046	0.50	NE	EPA 8082A	12/20/12 16:51	MSZ	
PCB-1232 [11141-16-5] ^	0.028	U	ug/L	1	0.028	0.50	NE	EPA 8082A	12/20/12 16:51	MSZ	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	12/20/12 16:51	MSZ	
PCB-1254 [11097-69-1] ^	0.015	U	ug/L	1	0.015	0.50	NE	EPA 8082A	12/20/12 16:51	MSZ	
PCB-1260 [11096-82-5] ^	0.13	U	ug/L	1	0.13	0.50	NE	EPA 8082A	12/20/12 16:51	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.85*	*1*	*1.00*	*85 %*	*45-151*	*2L14021*	*EPA 8082A*	*12/20/12 16:51*	*MSZ*	
Decachlorobiphenyl	*0.91*	*1*	*1.00*	*91 %*	*42-159*	*2L14021*	*EPA 8082A*	*12/20/12 16:51*	*MSZ*	

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Description: MW-10 | **Lab Sample ID:** C214412-04 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/11/12 13:05 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	4.9	U	ug/L	1	4.9	10	10	EPA 9014	12/14/12 12:36	AJB	

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Description: MW-10 | **Lab Sample ID:** C214412-04 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/11/12 13:05 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.23	U	ug/L	1	0.23	0.50	2	EPA 8151A	12/17/12 17:19	RGG	QL-02
2,4,5-TP (Silvex) [93-72-1] ^	0.20	U	ug/L	1	0.20	0.50	2	EPA 8151A	12/17/12 17:19	RGG	QL-02
2,4-D [94-75-7] ^	0.16	U	ug/L	1	0.16	0.50	2	EPA 8151A	12/17/12 17:19	RGG	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	12/17/12 17:19	RGG	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	12/17/12 17:19	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*1.7*	*1*	*2.00*	*86 %*	*68-139*	*2L13009*	*EPA 8151A*	*12/17/12 17:19*	*RGG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: MW-13 | **Lab Sample ID:** C214412-05 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/11/12 08:40 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 06:18	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 06:18	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	12/30/12 06:18	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 06:18	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	12/30/12 06:18	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 06:18	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 06:18	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 06:18	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 06:18	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 06:18	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 06:18	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	12/30/12 06:18	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 06:18	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 06:18	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 06:18	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	12/30/12 06:18	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 06:18	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 06:18	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	12/30/12 06:18	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 06:18	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 06:18	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 06:18	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	12/30/12 06:18	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 06:18	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 06:18	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	12/30/12 06:18	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 06:18	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 06:18	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	12/30/12 06:18	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	12/30/12 06:18	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 06:18	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	12/30/12 06:18	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 06:18	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 06:18	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	12/30/12 06:18	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	12/30/12 06:18	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	12/30/12 06:18	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 06:18	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 06:18	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 06:18	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 06:18	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 06:18	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 06:18	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 06:18	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 06:18	DFM	

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Description: MW-13 | **Lab Sample ID:** C214412-05 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/11/12 08:40 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 06:18	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 06:18	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	12/30/12 06:18	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 06:18	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 06:18	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 06:18	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	12/30/12 06:18	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 06:18	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 06:18	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 06:18	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 06:18	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	12/30/12 06:18	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 06:18	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 06:18	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 06:18	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 06:18	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 06:18	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	12/30/12 06:18	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 06:18	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 06:18	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 06:18	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 06:18	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 06:18	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 06:18	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 06:18	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 06:18	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 06:18	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 06:18	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 06:18	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 06:18	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 06:18	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 06:18	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	12/30/12 06:18	DFM	QV-01
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	12/30/12 06:18	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 06:18	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 06:18	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 06:18	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	12/30/12 06:18	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 06:18	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 06:18	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 06:18	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 06:18	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 06:18	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	12/30/12 06:18	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 06:18	DFM	

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Description: MW-13 | **Lab Sample ID:** C214412-05 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/11/12 08:40 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 06:18	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 06:18	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 06:18	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 06:18	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 06:18	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 06:18	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 06:18	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 06:18	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 06:18	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 06:18	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 06:18	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 06:18	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 06:18	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 06:18	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*89*	*1*	*100*	*89 %*	*10-179*	*2L17001*	*EPA 8270D*	*12/30/12 06:18*	*DFM*	
2-Fluorobiphenyl	*44*	*1*	*50.0*	*87 %*	*10-149*	*2L17001*	*EPA 8270D*	*12/30/12 06:18*	*DFM*	
2-Fluorophenol	*63*	*1*	*100*	*63 %*	*10-110*	*2L17001*	*EPA 8270D*	*12/30/12 06:18*	*DFM*	
Nitrobenzene-d5	*39*	*1*	*50.0*	*78 %*	*10-149*	*2L17001*	*EPA 8270D*	*12/30/12 06:18*	*DFM*	
Phenol-d5	*47*	*1*	*100*	*47 %*	*10-88*	*2L17001*	*EPA 8270D*	*12/30/12 06:18*	*DFM*	
Terphenyl-d14	*49*	*1*	*50.0*	*98 %*	*10-188*	*2L17001*	*EPA 8270D*	*12/30/12 06:18*	*DFM*	

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Description: MW-13 | **Lab Sample ID:** C214412-05 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/11/12 08:40 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	12/19/12 16:19	MSZ	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	12/19/12 16:19	MSZ	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	12/19/12 16:19	MSZ	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	12/19/12 16:19	MSZ	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	12/19/12 16:19	MSZ	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	12/19/12 16:19	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	12/19/12 16:19	MSZ	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	12/19/12 16:19	MSZ	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	12/19/12 16:19	MSZ	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	12/19/12 16:19	MSZ	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	12/19/12 16:19	MSZ	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	12/19/12 16:19	MSZ	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	12/19/12 16:19	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	12/19/12 16:19	MSZ	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	12/19/12 16:19	MSZ	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	12/19/12 16:19	MSZ	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	12/19/12 16:19	MSZ	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	12/19/12 16:19	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	12/19/12 16:19	MSZ	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	12/19/12 16:19	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	12/19/12 16:19	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.1*	*1*	*1.00*	*107 %*	*44-134*	*2L14018*	*EPA 8081B*	*12/19/12 16:19*	*MSZ*	
Decachlorobiphenyl	*1.1*	*1*	*1.00*	*107 %*	*37-149*	*2L14018*	*EPA 8081B*	*12/19/12 16:19*	*MSZ*	

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Description: MW-13 | **Lab Sample ID:** C214412-05 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/11/12 08:40 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.19	U	ug/L	1	0.19	0.50	2	EPA 8082A	12/19/12 16:19	MSZ	
PCB-1221 [11104-28-2] ^	0.046	U	ug/L	1	0.046	0.50	NE	EPA 8082A	12/19/12 16:19	MSZ	
PCB-1232 [11141-16-5] ^	0.028	U	ug/L	1	0.028	0.50	NE	EPA 8082A	12/19/12 16:19	MSZ	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	12/19/12 16:19	MSZ	
PCB-1254 [11097-69-1] ^	0.015	U	ug/L	1	0.015	0.50	NE	EPA 8082A	12/19/12 16:19	MSZ	
PCB-1260 [11096-82-5] ^	0.13	U	ug/L	1	0.13	0.50	NE	EPA 8082A	12/19/12 16:19	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.1*	*1*	*1.00*	*107 %*	*45-151*	*2L14021*	*EPA 8082A*	*12/19/12 16:19*	*MSZ*	
Decachlorobiphenyl	*1.1*	*1*	*1.00*	*107 %*	*42-159*	*2L14021*	*EPA 8082A*	*12/19/12 16:19*	*MSZ*	

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Description: MW-13
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C214412-05
Sampled: 12/11/12 08:40
Sampled By: J. Pfohl

Received: 12/12/12 08:20
Work Order: C214412

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	4.9	U	ug/L	1	4.9	10	10	EPA 9014	12/14/12 12:42	AJB	

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Description: MW-13 | **Lab Sample ID:** C214412-05 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/11/12 08:40 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.23	U	ug/L	1	0.23	0.50	2	EPA 8151A	12/18/12 11:23	RGG	QL-02
2,4,5-TP (Silvex) [93-72-1] ^	0.20	U	ug/L	1	0.20	0.50	2	EPA 8151A	12/18/12 11:23	RGG	QL-02
2,4-D [94-75-7] ^	0.16	U	ug/L	1	0.16	0.50	2	EPA 8151A	12/18/12 11:23	RGG	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	12/18/12 11:23	RGG	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	12/18/12 11:23	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*2.0*	*1*	*2.00*	*102 %*	*68-139*	*2L13009*	*EPA 8151A*	*12/18/12 11:23*	*RGG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: MW-14 | **Lab Sample ID:** C214412-06 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/11/12 15:35 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 06:49	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 06:49	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	12/30/12 06:49	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 06:49	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	12/30/12 06:49	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 06:49	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 06:49	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 06:49	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 06:49	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 06:49	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 06:49	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	12/30/12 06:49	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 06:49	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 06:49	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 06:49	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	12/30/12 06:49	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 06:49	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 06:49	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	12/30/12 06:49	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 06:49	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 06:49	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 06:49	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	12/30/12 06:49	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 06:49	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 06:49	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	12/30/12 06:49	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 06:49	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 06:49	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	12/30/12 06:49	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	12/30/12 06:49	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 06:49	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	12/30/12 06:49	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 06:49	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 06:49	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	12/30/12 06:49	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	12/30/12 06:49	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	12/30/12 06:49	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 06:49	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 06:49	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 06:49	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 06:49	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 06:49	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 06:49	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 06:49	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 06:49	DFM	

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Description: MW-14 | **Lab Sample ID:** C214412-06 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/11/12 15:35 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 06:49	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 06:49	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	12/30/12 06:49	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 06:49	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 06:49	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 06:49	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	12/30/12 06:49	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 06:49	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 06:49	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 06:49	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 06:49	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	12/30/12 06:49	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 06:49	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 06:49	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 06:49	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 06:49	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 06:49	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	12/30/12 06:49	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 06:49	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 06:49	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 06:49	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 06:49	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 06:49	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 06:49	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 06:49	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 06:49	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 06:49	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 06:49	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 06:49	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 06:49	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 06:49	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 06:49	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	12/30/12 06:49	DFM	QV-01
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	12/30/12 06:49	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 06:49	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 06:49	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 06:49	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	12/30/12 06:49	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 06:49	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 06:49	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 06:49	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 06:49	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 06:49	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	12/30/12 06:49	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 06:49	DFM	

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Description: MW-14 | **Lab Sample ID:** C214412-06 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/11/12 15:35 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 06:49	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 06:49	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 06:49	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 06:49	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 06:49	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 06:49	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 06:49	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 06:49	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 06:49	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 06:49	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 06:49	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 06:49	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 06:49	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 06:49	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*99*	*1*	*100*	*99 %*	*10-179*	*2L17001*	*EPA 8270D*	*12/30/12 06:49*	*DFM*	
2-Fluorobiphenyl	*44*	*1*	*50.0*	*89 %*	*10-149*	*2L17001*	*EPA 8270D*	*12/30/12 06:49*	*DFM*	
2-Fluorophenol	*66*	*1*	*100*	*66 %*	*10-110*	*2L17001*	*EPA 8270D*	*12/30/12 06:49*	*DFM*	
Nitrobenzene-d5	*40*	*1*	*50.0*	*80 %*	*10-149*	*2L17001*	*EPA 8270D*	*12/30/12 06:49*	*DFM*	
Phenol-d5	*50*	*1*	*100*	*50 %*	*10-88*	*2L17001*	*EPA 8270D*	*12/30/12 06:49*	*DFM*	
Terphenyl-d14	*45*	*1*	*50.0*	*90 %*	*10-188*	*2L17001*	*EPA 8270D*	*12/30/12 06:49*	*DFM*	

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Description: MW-14 | **Lab Sample ID:** C214412-06 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/11/12 15:35 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	12/19/12 16:32	MSZ	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	12/19/12 16:32	MSZ	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	12/19/12 16:32	MSZ	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	12/19/12 16:32	MSZ	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	12/19/12 16:32	MSZ	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	12/19/12 16:32	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	12/19/12 16:32	MSZ	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	12/19/12 16:32	MSZ	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	12/19/12 16:32	MSZ	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	12/19/12 16:32	MSZ	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	12/19/12 16:32	MSZ	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	12/19/12 16:32	MSZ	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	12/19/12 16:32	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	12/19/12 16:32	MSZ	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	12/19/12 16:32	MSZ	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	12/19/12 16:32	MSZ	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	12/19/12 16:32	MSZ	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	12/19/12 16:32	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	12/19/12 16:32	MSZ	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	12/19/12 16:32	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	12/19/12 16:32	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.0*	*1*	*1.00*	*100 %*	*44-134*	*2L14018*	*EPA 8081B*	*12/19/12 16:32*	*MSZ*	
Decachlorobiphenyl	*1.1*	*1*	*1.00*	*112 %*	*37-149*	*2L14018*	*EPA 8081B*	*12/19/12 16:32*	*MSZ*	

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Description: MW-14 | **Lab Sample ID:** C214412-06 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/11/12 15:35 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.19	U	ug/L	1	0.19	0.50	2	EPA 8082A	12/19/12 16:32	MSZ	
PCB-1221 [11104-28-2] ^	0.046	U	ug/L	1	0.046	0.50	NE	EPA 8082A	12/19/12 16:32	MSZ	
PCB-1232 [11141-16-5] ^	0.028	U	ug/L	1	0.028	0.50	NE	EPA 8082A	12/19/12 16:32	MSZ	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	12/19/12 16:32	MSZ	
PCB-1254 [11097-69-1] ^	0.015	U	ug/L	1	0.015	0.50	NE	EPA 8082A	12/19/12 16:32	MSZ	
PCB-1260 [11096-82-5] ^	0.13	U	ug/L	1	0.13	0.50	NE	EPA 8082A	12/19/12 16:32	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.0*	*1*	*1.00*	*100 %*	*45-151*	*2L14021*	*EPA 8082A*	*12/19/12 16:32*	*MSZ*	
Decachlorobiphenyl	*1.1*	*1*	*1.00*	*112 %*	*42-159*	*2L14021*	*EPA 8082A*	*12/19/12 16:32*	*MSZ*	

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Description: MW-14
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C214412-06
Sampled: 12/11/12 15:35
Sampled By: J. Pfohl

Received: 12/12/12 08:20
Work Order: C214412

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	4.9	U	ug/L	1	4.9	10	10	EPA 9014	12/14/12 12:44	AJB	

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Description: MW-14 | **Lab Sample ID:** C214412-06 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/11/12 15:35 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.23	U	ug/L	1	0.23	0.50	2	EPA 8151A	12/18/12 11:48	RGG	QL-02
2,4,5-TP (Silvex) [93-72-1] ^	0.20	U	ug/L	1	0.20	0.50	2	EPA 8151A	12/18/12 11:48	RGG	QL-02
2,4-D [94-75-7] ^	0.16	U	ug/L	1	0.16	0.50	2	EPA 8151A	12/18/12 11:48	RGG	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	12/18/12 11:48	RGG	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	12/18/12 11:48	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*2.2*	*1*	*2.00*	*111 %*	*68-139*	*2L13009*	*EPA 8151A*	*12/18/12 11:48*	*RGG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: MW-15 | **Lab Sample ID:** C214412-07 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/11/12 14:00 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 07:20	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 07:20	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	12/30/12 07:20	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 07:20	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	12/30/12 07:20	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 07:20	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 07:20	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 07:20	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 07:20	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 07:20	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 07:20	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	12/30/12 07:20	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 07:20	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 07:20	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 07:20	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	12/30/12 07:20	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 07:20	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 07:20	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	12/30/12 07:20	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 07:20	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 07:20	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 07:20	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	12/30/12 07:20	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 07:20	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 07:20	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	12/30/12 07:20	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 07:20	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 07:20	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	12/30/12 07:20	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	12/30/12 07:20	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 07:20	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	12/30/12 07:20	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 07:20	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 07:20	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	12/30/12 07:20	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	12/30/12 07:20	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	12/30/12 07:20	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 07:20	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 07:20	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 07:20	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 07:20	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 07:20	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 07:20	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 07:20	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 07:20	DFM	

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Description: MW-15 | **Lab Sample ID:** C214412-07 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/11/12 14:00 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 07:20	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 07:20	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	12/30/12 07:20	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 07:20	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 07:20	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 07:20	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	12/30/12 07:20	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 07:20	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 07:20	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 07:20	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 07:20	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	12/30/12 07:20	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 07:20	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 07:20	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 07:20	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 07:20	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 07:20	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	12/30/12 07:20	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 07:20	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 07:20	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 07:20	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 07:20	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 07:20	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 07:20	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 07:20	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 07:20	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 07:20	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 07:20	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 07:20	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 07:20	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 07:20	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 07:20	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	12/30/12 07:20	DFM	QV-01
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	12/30/12 07:20	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 07:20	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 07:20	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 07:20	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	12/30/12 07:20	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 07:20	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 07:20	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 07:20	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 07:20	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 07:20	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	12/30/12 07:20	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 07:20	DFM	

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Description: MW-15 | **Lab Sample ID:** C214412-07 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/11/12 14:00 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 07:20	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 07:20	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 07:20	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 07:20	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 07:20	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 07:20	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 07:20	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 07:20	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 07:20	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 07:20	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 07:20	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 07:20	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 07:20	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 07:20	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*100*	*1*	*100*	*101 %*	*10-179*	*2L17001*	*EPA 8270D*	*12/30/12 07:20*	*DFM*	
2-Fluorobiphenyl	*46*	*1*	*50.0*	*93 %*	*10-149*	*2L17001*	*EPA 8270D*	*12/30/12 07:20*	*DFM*	
2-Fluorophenol	*66*	*1*	*100*	*66 %*	*10-110*	*2L17001*	*EPA 8270D*	*12/30/12 07:20*	*DFM*	
Nitrobenzene-d5	*42*	*1*	*50.0*	*84 %*	*10-149*	*2L17001*	*EPA 8270D*	*12/30/12 07:20*	*DFM*	
Phenol-d5	*49*	*1*	*100*	*49 %*	*10-88*	*2L17001*	*EPA 8270D*	*12/30/12 07:20*	*DFM*	
Terphenyl-d14	*51*	*1*	*50.0*	*102 %*	*10-188*	*2L17001*	*EPA 8270D*	*12/30/12 07:20*	*DFM*	

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Description: MW-15 | **Lab Sample ID:** C214412-07 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/11/12 14:00 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	12/19/12 16:45	MSZ	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	12/19/12 16:45	MSZ	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	12/19/12 16:45	MSZ	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	12/19/12 16:45	MSZ	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	12/19/12 16:45	MSZ	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	12/19/12 16:45	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	12/19/12 16:45	MSZ	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	12/19/12 16:45	MSZ	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	12/19/12 16:45	MSZ	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	12/19/12 16:45	MSZ	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	12/19/12 16:45	MSZ	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	12/19/12 16:45	MSZ	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	12/19/12 16:45	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	12/19/12 16:45	MSZ	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	12/19/12 16:45	MSZ	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	12/19/12 16:45	MSZ	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	12/19/12 16:45	MSZ	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	12/19/12 16:45	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	12/19/12 16:45	MSZ	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	12/19/12 16:45	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	12/19/12 16:45	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.0*	*1*	*1.00*	*100 %*	*44-134*	*2L14018*	*EPA 8081B*	*12/19/12 16:45*	*MSZ*	
Decachlorobiphenyl	*1.2*	*1*	*1.00*	*124 %*	*37-149*	*2L14018*	*EPA 8081B*	*12/19/12 16:45*	*MSZ*	

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Description: MW-15 | **Lab Sample ID:** C214412-07 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/11/12 14:00 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.19	U	ug/L	1	0.19	0.50	2	EPA 8082A	12/19/12 16:45	MSZ	
PCB-1221 [11104-28-2] ^	0.046	U	ug/L	1	0.046	0.50	NE	EPA 8082A	12/19/12 16:45	MSZ	
PCB-1232 [11141-16-5] ^	0.028	U	ug/L	1	0.028	0.50	NE	EPA 8082A	12/19/12 16:45	MSZ	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	12/19/12 16:45	MSZ	
PCB-1254 [11097-69-1] ^	0.015	U	ug/L	1	0.015	0.50	NE	EPA 8082A	12/19/12 16:45	MSZ	
PCB-1260 [11096-82-5] ^	0.13	U	ug/L	1	0.13	0.50	NE	EPA 8082A	12/19/12 16:45	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.0*	*1*	*1.00*	*100 %*	*45-151*	*2L14021*	*EPA 8082A*	*12/19/12 16:45*	*MSZ*	
Decachlorobiphenyl	*1.2*	*1*	*1.00*	*124 %*	*42-159*	*2L14021*	*EPA 8082A*	*12/19/12 16:45*	*MSZ*	

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Description: MW-15
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C214412-07
Sampled: 12/11/12 14:00
Sampled By: J. Pfohl

Received: 12/12/12 08:20
Work Order: C214412

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	4.9	U	ug/L	1	4.9	10	10	EPA 9014	12/14/12 12:46	AJB	

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Description: MW-15 | **Lab Sample ID:** C214412-07 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/11/12 14:00 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.23	U	ug/L	1	0.23	0.50	2	EPA 8151A	12/18/12 12:13	RGG	QL-02
2,4,5-TP (Silvex) [93-72-1] ^	0.20	U	ug/L	1	0.20	0.50	2	EPA 8151A	12/18/12 12:13	RGG	QL-02
2,4-D [94-75-7] ^	0.16	U	ug/L	1	0.16	0.50	2	EPA 8151A	12/18/12 12:13	RGG	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	12/18/12 12:13	RGG	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	12/18/12 12:13	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*1.6*	*1*	*2.00*	*78 %*	*68-139*	*2L13009*	*EPA 8151A*	*12/18/12 12:13*	*RGG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: MW-20 | **Lab Sample ID:** C214412-08 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/11/12 16:40 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 07:50	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 07:50	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	12/30/12 07:50	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 07:50	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	12/30/12 07:50	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 07:50	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 07:50	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 07:50	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 07:50	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 07:50	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 07:50	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	12/30/12 07:50	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 07:50	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 07:50	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 07:50	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	12/30/12 07:50	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 07:50	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 07:50	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	12/30/12 07:50	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 07:50	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 07:50	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 07:50	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	12/30/12 07:50	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 07:50	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 07:50	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	12/30/12 07:50	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 07:50	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 07:50	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	12/30/12 07:50	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	12/30/12 07:50	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 07:50	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	12/30/12 07:50	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 07:50	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 07:50	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	12/30/12 07:50	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	12/30/12 07:50	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	12/30/12 07:50	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 07:50	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 07:50	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 07:50	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 07:50	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 07:50	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 07:50	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 07:50	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 07:50	DFM	

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Description: MW-20 | **Lab Sample ID:** C214412-08 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/11/12 16:40 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 07:50	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 07:50	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	12/30/12 07:50	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 07:50	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 07:50	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 07:50	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	12/30/12 07:50	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 07:50	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 07:50	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 07:50	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 07:50	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	12/30/12 07:50	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 07:50	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 07:50	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 07:50	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 07:50	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 07:50	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	12/30/12 07:50	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 07:50	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 07:50	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 07:50	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 07:50	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 07:50	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 07:50	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 07:50	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 07:50	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 07:50	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 07:50	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 07:50	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 07:50	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 07:50	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 07:50	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	12/30/12 07:50	DFM	QV-01
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	12/30/12 07:50	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 07:50	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 07:50	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 07:50	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	12/30/12 07:50	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 07:50	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 07:50	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 07:50	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 07:50	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 07:50	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	12/30/12 07:50	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 07:50	DFM	

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Description: MW-20 | **Lab Sample ID:** C214412-08 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/11/12 16:40 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 07:50	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 07:50	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 07:50	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 07:50	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 07:50	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 07:50	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 07:50	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 07:50	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 07:50	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 07:50	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 07:50	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 07:50	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 07:50	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 07:50	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*92*	*1*	*100*	*92 %*	*10-179*	*2L17001*	*EPA 8270D*	*12/30/12 07:50*	*DFM*	
2-Fluorobiphenyl	*43*	*1*	*50.0*	*86 %*	*10-149*	*2L17001*	*EPA 8270D*	*12/30/12 07:50*	*DFM*	
2-Fluorophenol	*60*	*1*	*100*	*60 %*	*10-110*	*2L17001*	*EPA 8270D*	*12/30/12 07:50*	*DFM*	
Nitrobenzene-d5	*37*	*1*	*50.0*	*74 %*	*10-149*	*2L17001*	*EPA 8270D*	*12/30/12 07:50*	*DFM*	
Phenol-d5	*47*	*1*	*100*	*47 %*	*10-88*	*2L17001*	*EPA 8270D*	*12/30/12 07:50*	*DFM*	
Terphenyl-d14	*48*	*1*	*50.0*	*96 %*	*10-188*	*2L17001*	*EPA 8270D*	*12/30/12 07:50*	*DFM*	

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Description: MW-20 | **Lab Sample ID:** C214412-08 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/11/12 16:40 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	12/19/12 16:58	MSZ	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	12/19/12 16:58	MSZ	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	12/19/12 16:58	MSZ	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	12/19/12 16:58	MSZ	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	12/19/12 16:58	MSZ	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	12/19/12 16:58	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	12/19/12 16:58	MSZ	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	12/19/12 16:58	MSZ	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	12/19/12 16:58	MSZ	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	12/19/12 16:58	MSZ	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	12/19/12 16:58	MSZ	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	12/19/12 16:58	MSZ	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	12/19/12 16:58	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	12/19/12 16:58	MSZ	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	12/19/12 16:58	MSZ	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	12/19/12 16:58	MSZ	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	12/19/12 16:58	MSZ	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	12/19/12 16:58	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	12/19/12 16:58	MSZ	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	12/19/12 16:58	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	12/19/12 16:58	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.1*	*1*	*1.00*	*106 %*	*44-134*	*2L14018*	*EPA 8081B*	*12/19/12 16:58*	*MSZ*	
Decachlorobiphenyl	*1.1*	*1*	*1.00*	*111 %*	*37-149*	*2L14018*	*EPA 8081B*	*12/19/12 16:58*	*MSZ*	

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Description: MW-20 | **Lab Sample ID:** C214412-08 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/11/12 16:40 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.19	U	ug/L	1	0.19	0.50	2	EPA 8082A	12/19/12 16:58	MSZ	
PCB-1221 [11104-28-2] ^	0.046	U	ug/L	1	0.046	0.50	NE	EPA 8082A	12/19/12 16:58	MSZ	
PCB-1232 [11141-16-5] ^	0.028	U	ug/L	1	0.028	0.50	NE	EPA 8082A	12/19/12 16:58	MSZ	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	12/19/12 16:58	MSZ	
PCB-1254 [11097-69-1] ^	0.015	U	ug/L	1	0.015	0.50	NE	EPA 8082A	12/19/12 16:58	MSZ	
PCB-1260 [11096-82-5] ^	0.13	U	ug/L	1	0.13	0.50	NE	EPA 8082A	12/19/12 16:58	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.1*	*1*	*1.00*	*106 %*	*45-151*	*2L14021*	*EPA 8082A*	*12/19/12 16:58*	*MSZ*	
Decachlorobiphenyl	*1.1*	*1*	*1.00*	*111 %*	*42-159*	*2L14021*	*EPA 8082A*	*12/19/12 16:58*	*MSZ*	

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Description: MW-20
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C214412-08
Sampled: 12/11/12 16:40
Sampled By: J. Pfohl

Received: 12/12/12 08:20
Work Order: C214412

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	4.9	U	ug/L	1	4.9	10	10	EPA 9014	12/14/12 12:48	AJB	

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Description: MW-20 | **Lab Sample ID:** C214412-08 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/11/12 16:40 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.23	U	ug/L	1	0.23	0.50	2	EPA 8151A	12/18/12 12:39	RGG	QL-02
2,4,5-TP (Silvex) [93-72-1] ^	0.20	U	ug/L	1	0.20	0.50	2	EPA 8151A	12/18/12 12:39	RGG	QL-02
2,4-D [94-75-7] ^	0.16	U	ug/L	1	0.16	0.50	2	EPA 8151A	12/18/12 12:39	RGG	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	12/18/12 12:39	RGG	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	12/18/12 12:39	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*1.9*	*1*	*2.00*	*95 %*	*68-139*	*2L13009*	*EPA 8151A*	*12/18/12 12:39*	*RGG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: MW-17 | **Lab Sample ID:** C214412-09 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/10/12 15:25 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 08:21	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 08:21	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	12/30/12 08:21	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 08:21	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	12/30/12 08:21	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 08:21	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 08:21	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 08:21	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 08:21	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 08:21	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 08:21	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	12/30/12 08:21	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 08:21	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 08:21	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 08:21	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	12/30/12 08:21	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 08:21	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 08:21	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	12/30/12 08:21	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 08:21	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 08:21	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 08:21	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	12/30/12 08:21	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 08:21	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 08:21	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	12/30/12 08:21	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 08:21	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 08:21	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	12/30/12 08:21	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	12/30/12 08:21	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 08:21	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	12/30/12 08:21	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 08:21	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 08:21	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	12/30/12 08:21	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	12/30/12 08:21	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	12/30/12 08:21	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 08:21	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 08:21	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 08:21	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 08:21	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 08:21	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 08:21	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 08:21	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 08:21	DFM	

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Description: MW-17 | **Lab Sample ID:** C214412-09 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/10/12 15:25 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 08:21	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 08:21	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	12/30/12 08:21	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 08:21	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 08:21	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 08:21	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	12/30/12 08:21	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 08:21	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 08:21	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 08:21	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 08:21	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	12/30/12 08:21	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 08:21	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 08:21	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 08:21	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 08:21	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 08:21	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	12/30/12 08:21	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 08:21	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 08:21	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 08:21	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 08:21	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 08:21	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 08:21	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 08:21	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 08:21	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 08:21	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 08:21	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 08:21	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 08:21	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 08:21	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 08:21	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	12/30/12 08:21	DFM	QV-01
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	12/30/12 08:21	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 08:21	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 08:21	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 08:21	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	12/30/12 08:21	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 08:21	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 08:21	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 08:21	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 08:21	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 08:21	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	12/30/12 08:21	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 08:21	DFM	

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Description: MW-17 | **Lab Sample ID:** C214412-09 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/10/12 15:25 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 08:21	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 08:21	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 08:21	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 08:21	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 08:21	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 08:21	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 08:21	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 08:21	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 08:21	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 08:21	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 08:21	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 08:21	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 08:21	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 08:21	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*95*	*1*	*100*	*95 %*	*10-179*	*2L17001*	*EPA 8270D*	*12/30/12 08:21*	*DFM*	
2-Fluorobiphenyl	*44*	*1*	*50.0*	*88 %*	*10-149*	*2L17001*	*EPA 8270D*	*12/30/12 08:21*	*DFM*	
2-Fluorophenol	*62*	*1*	*100*	*62 %*	*10-110*	*2L17001*	*EPA 8270D*	*12/30/12 08:21*	*DFM*	
Nitrobenzene-d5	*39*	*1*	*50.0*	*77 %*	*10-149*	*2L17001*	*EPA 8270D*	*12/30/12 08:21*	*DFM*	
Phenol-d5	*46*	*1*	*100*	*46 %*	*10-88*	*2L17001*	*EPA 8270D*	*12/30/12 08:21*	*DFM*	
Terphenyl-d14	*52*	*1*	*50.0*	*104 %*	*10-188*	*2L17001*	*EPA 8270D*	*12/30/12 08:21*	*DFM*	

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Description: MW-17 | **Lab Sample ID:** C214412-09 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/10/12 15:25 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	12/19/12 17:12	MSZ	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	12/19/12 17:12	MSZ	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	12/19/12 17:12	MSZ	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	12/19/12 17:12	MSZ	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	12/19/12 17:12	MSZ	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	12/19/12 17:12	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	12/19/12 17:12	MSZ	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	12/19/12 17:12	MSZ	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	12/19/12 17:12	MSZ	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	12/19/12 17:12	MSZ	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	12/19/12 17:12	MSZ	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	12/19/12 17:12	MSZ	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	12/19/12 17:12	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	12/19/12 17:12	MSZ	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	12/19/12 17:12	MSZ	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	12/19/12 17:12	MSZ	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	12/19/12 17:12	MSZ	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	12/19/12 17:12	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	12/19/12 17:12	MSZ	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	12/19/12 17:12	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	12/19/12 17:12	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.0*	*1*	*1.00*	*104 %*	*44-134*	*2L14018*	*EPA 8081B*	*12/19/12 17:12*	*MSZ*	
Decachlorobiphenyl	*1.1*	*1*	*1.00*	*109 %*	*37-149*	*2L14018*	*EPA 8081B*	*12/19/12 17:12*	*MSZ*	

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Description: MW-17 | **Lab Sample ID:** C214412-09 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/10/12 15:25 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.19	U	ug/L	1	0.19	0.50	2	EPA 8082A	12/19/12 17:12	MSZ	
PCB-1221 [11104-28-2] ^	0.046	U	ug/L	1	0.046	0.50	NE	EPA 8082A	12/19/12 17:12	MSZ	
PCB-1232 [11141-16-5] ^	0.028	U	ug/L	1	0.028	0.50	NE	EPA 8082A	12/19/12 17:12	MSZ	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	12/19/12 17:12	MSZ	
PCB-1254 [11097-69-1] ^	0.015	U	ug/L	1	0.015	0.50	NE	EPA 8082A	12/19/12 17:12	MSZ	
PCB-1260 [11096-82-5] ^	0.13	U	ug/L	1	0.13	0.50	NE	EPA 8082A	12/19/12 17:12	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.0*	*1*	*1.00*	*104 %*	*45-151*	*2L14021*	*EPA 8082A*	*12/19/12 17:12*	*MSZ*	
Decachlorobiphenyl	*1.1*	*1*	*1.00*	*109 %*	*42-159*	*2L14021*	*EPA 8082A*	*12/19/12 17:12*	*MSZ*	

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Description: MW-17
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C214412-09
Sampled: 12/10/12 15:25
Sampled By: J. Pfohl

Received: 12/12/12 08:20
Work Order: C214412

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	4.9	U	ug/L	1	4.9	10	10	EPA 9014	12/14/12 12:50	AJB	

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Description: MW-17 | **Lab Sample ID:** C214412-09 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/10/12 15:25 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.23	U	ug/L	1	0.23	0.50	2	EPA 8151A	12/18/12 13:05	RGG	QL-02
2,4,5-TP (Silvex) [93-72-1] ^	0.20	U	ug/L	1	0.20	0.50	2	EPA 8151A	12/18/12 13:05	RGG	QL-02
2,4-D [94-75-7] ^	0.16	U	ug/L	1	0.16	0.50	2	EPA 8151A	12/18/12 13:05	RGG	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	12/18/12 13:05	RGG	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	12/18/12 13:05	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*2.4*	*1*	*2.00*	*122 %*	*68-139*	*2L13009*	*EPA 8151A*	*12/18/12 13:05*	*RGG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: MW-22 | **Lab Sample ID:** C214412-10 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/10/12 14:05 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 08:52	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 08:52	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	12/30/12 08:52	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 08:52	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	12/30/12 08:52	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 08:52	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 08:52	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 08:52	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 08:52	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 08:52	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 08:52	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	12/30/12 08:52	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 08:52	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 08:52	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 08:52	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	12/30/12 08:52	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 08:52	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 08:52	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	12/30/12 08:52	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 08:52	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 08:52	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 08:52	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	12/30/12 08:52	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 08:52	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 08:52	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	12/30/12 08:52	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 08:52	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 08:52	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	12/30/12 08:52	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	12/30/12 08:52	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 08:52	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	12/30/12 08:52	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 08:52	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 08:52	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	12/30/12 08:52	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	12/30/12 08:52	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	12/30/12 08:52	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 08:52	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 08:52	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 08:52	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 08:52	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 08:52	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 08:52	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 08:52	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 08:52	DFM	

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Description: MW-22 | **Lab Sample ID:** C214412-10 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/10/12 14:05 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 08:52	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 08:52	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	12/30/12 08:52	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 08:52	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 08:52	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 08:52	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	12/30/12 08:52	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 08:52	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 08:52	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 08:52	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 08:52	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	12/30/12 08:52	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 08:52	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 08:52	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 08:52	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 08:52	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 08:52	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	12/30/12 08:52	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 08:52	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 08:52	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 08:52	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 08:52	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 08:52	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 08:52	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 08:52	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 08:52	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 08:52	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 08:52	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 08:52	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 08:52	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 08:52	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 08:52	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	12/30/12 08:52	DFM	QV-01
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	12/30/12 08:52	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 08:52	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 08:52	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 08:52	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	12/30/12 08:52	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 08:52	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 08:52	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 08:52	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 08:52	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 08:52	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	12/30/12 08:52	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 08:52	DFM	

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Description: MW-22 | **Lab Sample ID:** C214412-10 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/10/12 14:05 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 08:52	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 08:52	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 08:52	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 08:52	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 08:52	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 08:52	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 08:52	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 08:52	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 08:52	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 08:52	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 08:52	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 08:52	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 08:52	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 08:52	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*91*	*1*	*100*	*91 %*	*10-179*	*2L17001*	*EPA 8270D*	*12/30/12 08:52*	*DFM*	
2-Fluorobiphenyl	*46*	*1*	*50.0*	*93 %*	*10-149*	*2L17001*	*EPA 8270D*	*12/30/12 08:52*	*DFM*	
2-Fluorophenol	*78*	*1*	*100*	*78 %*	*10-110*	*2L17001*	*EPA 8270D*	*12/30/12 08:52*	*DFM*	
Nitrobenzene-d5	*41*	*1*	*50.0*	*82 %*	*10-149*	*2L17001*	*EPA 8270D*	*12/30/12 08:52*	*DFM*	
Phenol-d5	*65*	*1*	*100*	*65 %*	*10-88*	*2L17001*	*EPA 8270D*	*12/30/12 08:52*	*DFM*	
Terphenyl-d14	*50*	*1*	*50.0*	*100 %*	*10-188*	*2L17001*	*EPA 8270D*	*12/30/12 08:52*	*DFM*	

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Description: MW-22 | **Lab Sample ID:** C214412-10 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/10/12 14:05 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	12/19/12 17:38	MSZ	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	12/19/12 17:38	MSZ	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	12/19/12 17:38	MSZ	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	12/19/12 17:38	MSZ	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	12/19/12 17:38	MSZ	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	12/19/12 17:38	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	12/19/12 17:38	MSZ	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	12/19/12 17:38	MSZ	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	12/19/12 17:38	MSZ	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	12/19/12 17:38	MSZ	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	12/19/12 17:38	MSZ	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	12/19/12 17:38	MSZ	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	12/19/12 17:38	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	12/19/12 17:38	MSZ	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	12/19/12 17:38	MSZ	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	12/19/12 17:38	MSZ	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	12/19/12 17:38	MSZ	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	12/19/12 17:38	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	12/19/12 17:38	MSZ	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	12/19/12 17:38	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	12/19/12 17:38	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.1*	*1*	*1.00*	*106 %*	*44-134*	*2L14018*	*EPA 8081B*	*12/19/12 17:38*	*MSZ*	
Decachlorobiphenyl	*1.1*	*1*	*1.00*	*110 %*	*37-149*	*2L14018*	*EPA 8081B*	*12/19/12 17:38*	*MSZ*	

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Description: MW-22 | **Lab Sample ID:** C214412-10 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/10/12 14:05 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.19	U	ug/L	1	0.19	0.50	2	EPA 8082A	12/19/12 17:38	MSZ	
PCB-1221 [11104-28-2] ^	0.046	U	ug/L	1	0.046	0.50	NE	EPA 8082A	12/19/12 17:38	MSZ	
PCB-1232 [11141-16-5] ^	0.028	U	ug/L	1	0.028	0.50	NE	EPA 8082A	12/19/12 17:38	MSZ	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	12/19/12 17:38	MSZ	
PCB-1254 [11097-69-1] ^	0.015	U	ug/L	1	0.015	0.50	NE	EPA 8082A	12/19/12 17:38	MSZ	
PCB-1260 [11096-82-5] ^	0.13	U	ug/L	1	0.13	0.50	NE	EPA 8082A	12/19/12 17:38	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.1*	*1*	*1.00*	*106 %*	*45-151*	*2L14021*	*EPA 8082A*	*12/19/12 17:38*	*MSZ*	
Decachlorobiphenyl	*1.1*	*1*	*1.00*	*110 %*	*42-159*	*2L14021*	*EPA 8082A*	*12/19/12 17:38*	*MSZ*	

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Description: MW-22
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C214412-10
Sampled: 12/10/12 14:05
Sampled By: J. Pfohl

Received: 12/12/12 08:20
Work Order: C214412

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	4.9	U	ug/L	1	4.9	10	10	EPA 9014	12/14/12 12:52	AJB	

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Description: MW-22 | **Lab Sample ID:** C214412-10 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/10/12 14:05 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.23	U	ug/L	1	0.23	0.50	2	EPA 8151A	12/18/12 13:30	RGG	QL-02
2,4,5-TP (Silvex) [93-72-1] ^	0.20	U	ug/L	1	0.20	0.50	2	EPA 8151A	12/18/12 13:30	RGG	QL-02
2,4-D [94-75-7] ^	0.16	U	ug/L	1	0.16	0.50	2	EPA 8151A	12/18/12 13:30	RGG	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	12/18/12 13:30	RGG	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	12/18/12 13:30	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*1.8*	*1*	*2.00*	*88 %*	*68-139*	*2L13009*	*EPA 8151A*	*12/18/12 13:30*	*RGG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: MW-21 | **Lab Sample ID:** C214412-11 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/10/12 14:45 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 09:22	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 09:22	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	12/30/12 09:22	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 09:22	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	12/30/12 09:22	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 09:22	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 09:22	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 09:22	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 09:22	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 09:22	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 09:22	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	12/30/12 09:22	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 09:22	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 09:22	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 09:22	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	12/30/12 09:22	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 09:22	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 09:22	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	12/30/12 09:22	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 09:22	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 09:22	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 09:22	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	12/30/12 09:22	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 09:22	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 09:22	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	12/30/12 09:22	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 09:22	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 09:22	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	12/30/12 09:22	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	12/30/12 09:22	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 09:22	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	12/30/12 09:22	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 09:22	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 09:22	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	12/30/12 09:22	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	12/30/12 09:22	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	12/30/12 09:22	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 09:22	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 09:22	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 09:22	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 09:22	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 09:22	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 09:22	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 09:22	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 09:22	DFM	

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Description: MW-21 | **Lab Sample ID:** C214412-11 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/10/12 14:45 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 09:22	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 09:22	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	12/30/12 09:22	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 09:22	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 09:22	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 09:22	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	12/30/12 09:22	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 09:22	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 09:22	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 09:22	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 09:22	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	12/30/12 09:22	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 09:22	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 09:22	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 09:22	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 09:22	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 09:22	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	12/30/12 09:22	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 09:22	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 09:22	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 09:22	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 09:22	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 09:22	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 09:22	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 09:22	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 09:22	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 09:22	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 09:22	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 09:22	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 09:22	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 09:22	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 09:22	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	12/30/12 09:22	DFM	QV-01
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	12/30/12 09:22	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 09:22	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 09:22	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 09:22	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	12/30/12 09:22	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 09:22	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 09:22	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 09:22	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 09:22	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 09:22	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	12/30/12 09:22	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 09:22	DFM	

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Description: MW-21 | **Lab Sample ID:** C214412-11 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/10/12 14:45 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 09:22	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 09:22	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 09:22	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 09:22	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 09:22	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 09:22	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 09:22	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 09:22	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 09:22	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 09:22	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 09:22	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 09:22	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 09:22	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 09:22	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*79*	*1*	*100*	*79 %*	*10-179*	*2L17001*	*EPA 8270D*	*12/30/12 09:22*	*DFM*	
2-Fluorobiphenyl	*39*	*1*	*50.0*	*78 %*	*10-149*	*2L17001*	*EPA 8270D*	*12/30/12 09:22*	*DFM*	
2-Fluorophenol	*56*	*1*	*100*	*56 %*	*10-110*	*2L17001*	*EPA 8270D*	*12/30/12 09:22*	*DFM*	
Nitrobenzene-d5	*35*	*1*	*50.0*	*69 %*	*10-149*	*2L17001*	*EPA 8270D*	*12/30/12 09:22*	*DFM*	
Phenol-d5	*42*	*1*	*100*	*42 %*	*10-88*	*2L17001*	*EPA 8270D*	*12/30/12 09:22*	*DFM*	
Terphenyl-d14	*42*	*1*	*50.0*	*83 %*	*10-188*	*2L17001*	*EPA 8270D*	*12/30/12 09:22*	*DFM*	

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Description: MW-21 | **Lab Sample ID:** C214412-11 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/10/12 14:45 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	12/19/12 17:51	MSZ	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	12/19/12 17:51	MSZ	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	12/19/12 17:51	MSZ	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	12/19/12 17:51	MSZ	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	12/19/12 17:51	MSZ	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	12/19/12 17:51	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	12/19/12 17:51	MSZ	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	12/19/12 17:51	MSZ	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	12/19/12 17:51	MSZ	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	12/19/12 17:51	MSZ	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	12/19/12 17:51	MSZ	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	12/19/12 17:51	MSZ	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	12/19/12 17:51	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	12/19/12 17:51	MSZ	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	12/19/12 17:51	MSZ	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	12/19/12 17:51	MSZ	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	12/19/12 17:51	MSZ	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	12/19/12 17:51	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	12/19/12 17:51	MSZ	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	12/19/12 17:51	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	12/19/12 17:51	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.1*	*1*	*1.00*	*111 %*	*44-134*	*2L14018*	*EPA 8081B*	*12/19/12 17:51*	*MSZ*	
Decachlorobiphenyl	*1.0*	*1*	*1.00*	*100 %*	*37-149*	*2L14018*	*EPA 8081B*	*12/19/12 17:51*	*MSZ*	

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Description: MW-21 | **Lab Sample ID:** C214412-11 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/10/12 14:45 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.19	U	ug/L	1	0.19	0.50	2	EPA 8082A	12/19/12 17:51	MSZ	
PCB-1221 [11104-28-2] ^	0.046	U	ug/L	1	0.046	0.50	NE	EPA 8082A	12/19/12 17:51	MSZ	
PCB-1232 [11141-16-5] ^	0.028	U	ug/L	1	0.028	0.50	NE	EPA 8082A	12/19/12 17:51	MSZ	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	12/19/12 17:51	MSZ	
PCB-1254 [11097-69-1] ^	0.015	U	ug/L	1	0.015	0.50	NE	EPA 8082A	12/19/12 17:51	MSZ	
PCB-1260 [11096-82-5] ^	0.13	U	ug/L	1	0.13	0.50	NE	EPA 8082A	12/19/12 17:51	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.1*	*1*	*1.00*	*111 %*	*45-151*	*2L14021*	*EPA 8082A*	*12/19/12 17:51*	*MSZ*	
Decachlorobiphenyl	*1.0*	*1*	*1.00*	*100 %*	*42-159*	*2L14021*	*EPA 8082A*	*12/19/12 17:51*	*MSZ*	

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Description: MW-21
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C214412-11
Sampled: 12/10/12 14:45
Sampled By: J. Pfohl

Received: 12/12/12 08:20
Work Order: C214412

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	4.9	U	ug/L	1	4.9	10	10	EPA 9014	12/14/12 12:53	AJB	

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Description: MW-21 | **Lab Sample ID:** C214412-11 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/10/12 14:45 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.23	U	ug/L	1	0.23	0.50	2	EPA 8151A	12/18/12 13:56	RGG	QL-02
2,4,5-TP (Silvex) [93-72-1] ^	0.20	U	ug/L	1	0.20	0.50	2	EPA 8151A	12/18/12 13:56	RGG	QL-02
2,4-D [94-75-7] ^	0.16	U	ug/L	1	0.16	0.50	2	EPA 8151A	12/18/12 13:56	RGG	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	12/18/12 13:56	RGG	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	12/18/12 13:56	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*1.6*	*1*	*2.00*	*79 %*	*68-139*	*2L13009*	*EPA 8151A*	*12/18/12 13:56*	*RGG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: MW-23 | **Lab Sample ID:** C214412-12 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/10/12 13:00 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 09:53	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 09:53	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	12/30/12 09:53	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 09:53	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	12/30/12 09:53	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 09:53	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 09:53	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 09:53	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 09:53	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 09:53	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 09:53	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	12/30/12 09:53	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 09:53	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 09:53	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 09:53	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	12/30/12 09:53	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 09:53	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 09:53	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	12/30/12 09:53	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 09:53	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 09:53	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 09:53	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	12/30/12 09:53	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 09:53	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 09:53	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	12/30/12 09:53	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 09:53	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 09:53	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	12/30/12 09:53	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	12/30/12 09:53	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 09:53	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	12/30/12 09:53	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 09:53	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 09:53	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	12/30/12 09:53	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	12/30/12 09:53	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	12/30/12 09:53	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 09:53	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 09:53	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 09:53	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 09:53	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 09:53	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 09:53	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 09:53	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 09:53	DFM	

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Description: MW-23 | **Lab Sample ID:** C214412-12 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/10/12 13:00 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 09:53	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 09:53	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	12/30/12 09:53	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 09:53	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 09:53	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 09:53	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	12/30/12 09:53	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 09:53	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 09:53	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 09:53	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 09:53	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	12/30/12 09:53	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 09:53	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 09:53	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 09:53	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 09:53	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 09:53	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	12/30/12 09:53	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 09:53	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 09:53	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 09:53	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 09:53	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 09:53	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 09:53	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 09:53	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 09:53	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 09:53	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 09:53	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 09:53	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 09:53	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 09:53	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 09:53	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	12/30/12 09:53	DFM	QV-01
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	12/30/12 09:53	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 09:53	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 09:53	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 09:53	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	12/30/12 09:53	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 09:53	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 09:53	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 09:53	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 09:53	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 09:53	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	12/30/12 09:53	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 09:53	DFM	

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Description: MW-23 | **Lab Sample ID:** C214412-12 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/10/12 13:00 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 09:53	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 09:53	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 09:53	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 09:53	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 09:53	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 09:53	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 09:53	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 09:53	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 09:53	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 09:53	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 09:53	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 09:53	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 09:53	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 09:53	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*95*	*1*	*100*	*95 %*	*10-179*	*2L17001*	*EPA 8270D*	*12/30/12 09:53*	*DFM*	
2-Fluorobiphenyl	*45*	*1*	*50.0*	*90 %*	*10-149*	*2L17001*	*EPA 8270D*	*12/30/12 09:53*	*DFM*	
2-Fluorophenol	*58*	*1*	*100*	*58 %*	*10-110*	*2L17001*	*EPA 8270D*	*12/30/12 09:53*	*DFM*	
Nitrobenzene-d5	*42*	*1*	*50.0*	*83 %*	*10-149*	*2L17001*	*EPA 8270D*	*12/30/12 09:53*	*DFM*	
Phenol-d5	*40*	*1*	*100*	*40 %*	*10-88*	*2L17001*	*EPA 8270D*	*12/30/12 09:53*	*DFM*	
Terphenyl-d14	*51*	*1*	*50.0*	*102 %*	*10-188*	*2L17001*	*EPA 8270D*	*12/30/12 09:53*	*DFM*	

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Description: MW-23 | **Lab Sample ID:** C214412-12 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/10/12 13:00 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	12/19/12 18:05	MSZ	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	12/19/12 18:05	MSZ	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	12/19/12 18:05	MSZ	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	12/19/12 18:05	MSZ	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	12/19/12 18:05	MSZ	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	12/19/12 18:05	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	12/19/12 18:05	MSZ	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	12/19/12 18:05	MSZ	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	12/19/12 18:05	MSZ	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	12/19/12 18:05	MSZ	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	12/19/12 18:05	MSZ	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	12/19/12 18:05	MSZ	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	12/19/12 18:05	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	12/19/12 18:05	MSZ	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	12/19/12 18:05	MSZ	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	12/19/12 18:05	MSZ	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	12/19/12 18:05	MSZ	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	12/19/12 18:05	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	12/19/12 18:05	MSZ	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	12/19/12 18:05	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	12/19/12 18:05	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.91*	*1*	*1.00*	*91 %*	*44-134*	*2L14018*	*EPA 8081B*	*12/19/12 18:05*	*MSZ*	
Decachlorobiphenyl	*1.0*	*1*	*1.00*	*104 %*	*37-149*	*2L14018*	*EPA 8081B*	*12/19/12 18:05*	*MSZ*	

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Description: MW-23 | **Lab Sample ID:** C214412-12 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/10/12 13:00 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.19	U	ug/L	1	0.19	0.50	2	EPA 8082A	12/19/12 18:05	MSZ	
PCB-1221 [11104-28-2] ^	0.046	U	ug/L	1	0.046	0.50	NE	EPA 8082A	12/19/12 18:05	MSZ	
PCB-1232 [11141-16-5] ^	0.028	U	ug/L	1	0.028	0.50	NE	EPA 8082A	12/19/12 18:05	MSZ	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	12/19/12 18:05	MSZ	
PCB-1254 [11097-69-1] ^	0.015	U	ug/L	1	0.015	0.50	NE	EPA 8082A	12/19/12 18:05	MSZ	
PCB-1260 [11096-82-5] ^	0.13	U	ug/L	1	0.13	0.50	NE	EPA 8082A	12/19/12 18:05	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.91*	*1*	*1.00*	*91 %*	*45-151*	*2L14021*	*EPA 8082A*	*12/19/12 18:05*	*MSZ*	
Decachlorobiphenyl	*1.0*	*1*	*1.00*	*104 %*	*42-159*	*2L14021*	*EPA 8082A*	*12/19/12 18:05*	*MSZ*	

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Description: MW-23 | **Lab Sample ID:** C214412-12 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/10/12 13:00 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	4.9	U	ug/L	1	4.9	10	10	EPA 9014	12/14/12 12:55	AJB	

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Description: MW-23 | **Lab Sample ID:** C214412-12 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/10/12 13:00 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.23	U	ug/L	1	0.23	0.50	2	EPA 8151A	12/18/12 14:22	RGG	QL-02
2,4,5-TP (Silvex) [93-72-1] ^	0.20	U	ug/L	1	0.20	0.50	2	EPA 8151A	12/18/12 14:22	RGG	QL-02
2,4-D [94-75-7] ^	0.16	U	ug/L	1	0.16	0.50	2	EPA 8151A	12/18/12 14:22	RGG	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	12/18/12 14:22	RGG	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	12/18/12 14:22	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*2.0*	*1*	*2.00*	*102 %*	*68-139*	*2L13009*	*EPA 8151A*	*12/18/12 14:22*	*RGG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: MW-32 | **Lab Sample ID:** C214412-13 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/11/12 10:05 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 10:23	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 10:23	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	12/30/12 10:23	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 10:23	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	12/30/12 10:23	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 10:23	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 10:23	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 10:23	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 10:23	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 10:23	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 10:23	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	12/30/12 10:23	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 10:23	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 10:23	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 10:23	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	12/30/12 10:23	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 10:23	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 10:23	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	12/30/12 10:23	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 10:23	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 10:23	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 10:23	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	12/30/12 10:23	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 10:23	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 10:23	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	12/30/12 10:23	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 10:23	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 10:23	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	12/30/12 10:23	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	12/30/12 10:23	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 10:23	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	12/30/12 10:23	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 10:23	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 10:23	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	12/30/12 10:23	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	12/30/12 10:23	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	12/30/12 10:23	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 10:23	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 10:23	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 10:23	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 10:23	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 10:23	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 10:23	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 10:23	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 10:23	DFM	

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Description: MW-32 | **Lab Sample ID:** C214412-13 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/11/12 10:05 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 10:23	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 10:23	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	12/30/12 10:23	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 10:23	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 10:23	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 10:23	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	12/30/12 10:23	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 10:23	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 10:23	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 10:23	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 10:23	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	12/30/12 10:23	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 10:23	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 10:23	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 10:23	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 10:23	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 10:23	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	12/30/12 10:23	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 10:23	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 10:23	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 10:23	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 10:23	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 10:23	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 10:23	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 10:23	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 10:23	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 10:23	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 10:23	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 10:23	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 10:23	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 10:23	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 10:23	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	12/30/12 10:23	DFM	QV-01
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	12/30/12 10:23	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 10:23	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 10:23	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 10:23	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	12/30/12 10:23	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 10:23	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 10:23	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 10:23	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 10:23	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 10:23	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	12/30/12 10:23	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 10:23	DFM	

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Description: MW-32 | **Lab Sample ID:** C214412-13 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/11/12 10:05 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 10:23	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 10:23	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 10:23	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 10:23	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 10:23	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 10:23	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 10:23	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 10:23	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 10:23	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 10:23	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 10:23	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 10:23	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 10:23	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 10:23	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*88*	*1*	*100*	*88 %*	*10-179*	*2L17001*	*EPA 8270D*	*12/30/12 10:23*	*DFM*	
2-Fluorobiphenyl	*43*	*1*	*50.0*	*86 %*	*10-149*	*2L17001*	*EPA 8270D*	*12/30/12 10:23*	*DFM*	
2-Fluorophenol	*55*	*1*	*100*	*55 %*	*10-110*	*2L17001*	*EPA 8270D*	*12/30/12 10:23*	*DFM*	
Nitrobenzene-d5	*41*	*1*	*50.0*	*82 %*	*10-149*	*2L17001*	*EPA 8270D*	*12/30/12 10:23*	*DFM*	
Phenol-d5	*39*	*1*	*100*	*39 %*	*10-88*	*2L17001*	*EPA 8270D*	*12/30/12 10:23*	*DFM*	
Terphenyl-d14	*48*	*1*	*50.0*	*97 %*	*10-188*	*2L17001*	*EPA 8270D*	*12/30/12 10:23*	*DFM*	

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Description: MW-32 | **Lab Sample ID:** C214412-13 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/11/12 10:05 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	12/27/12 13:06	MSZ	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	12/27/12 13:06	MSZ	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	12/27/12 13:06	MSZ	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	12/27/12 13:06	MSZ	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	12/27/12 13:06	MSZ	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	12/27/12 13:06	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	12/27/12 13:06	MSZ	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	12/27/12 13:06	MSZ	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	12/27/12 13:06	MSZ	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	12/27/12 13:06	MSZ	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	12/27/12 13:06	MSZ	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	12/27/12 13:06	MSZ	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	12/27/12 13:06	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	12/27/12 13:06	MSZ	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	12/27/12 13:06	MSZ	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	12/27/12 13:06	MSZ	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	12/27/12 13:06	MSZ	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	12/27/12 13:06	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	12/27/12 13:06	MSZ	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	12/27/12 13:06	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	12/27/12 13:06	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.1*	*1*	*1.00*	*107 %*	*44-134*	*2L18024*	*EPA 8081B*	*12/27/12 13:06*	*MSZ*	
Decachlorobiphenyl	*0.92*	*1*	*1.00*	*92 %*	*37-149*	*2L18024*	*EPA 8081B*	*12/27/12 13:06*	*MSZ*	

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Description: MW-32 | **Lab Sample ID:** C214412-13 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/11/12 10:05 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.19	U	ug/L	1	0.19	0.50	2	EPA 8082A	12/27/12 13:06	MSZ	
PCB-1221 [11104-28-2] ^	0.046	U	ug/L	1	0.046	0.50	NE	EPA 8082A	12/27/12 13:06	MSZ	
PCB-1232 [11141-16-5] ^	0.028	U	ug/L	1	0.028	0.50	NE	EPA 8082A	12/27/12 13:06	MSZ	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	12/27/12 13:06	MSZ	
PCB-1254 [11097-69-1] ^	0.015	U	ug/L	1	0.015	0.50	NE	EPA 8082A	12/27/12 13:06	MSZ	
PCB-1260 [11096-82-5] ^	0.13	U	ug/L	1	0.13	0.50	NE	EPA 8082A	12/27/12 13:06	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.1*	*1*	*1.00*	*107 %*	*45-151*	*2L18025*	*EPA 8082A*	*12/27/12 13:06*	*MSZ*	
Decachlorobiphenyl	*0.92*	*1*	*1.00*	*92 %*	*42-159*	*2L18025*	*EPA 8082A*	*12/27/12 13:06*	*MSZ*	

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Description: MW-32
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C214412-13
Sampled: 12/11/12 10:05
Sampled By: J. Pfohl

Received: 12/12/12 08:20
Work Order: C214412

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	4.9	U	ug/L	1	4.9	10	10	EPA 9014	12/19/12 10:48	JCS	

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Description: MW-32 | **Lab Sample ID:** C214412-13 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/11/12 10:05 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.23	U	ug/L	1	0.23	0.50	2	EPA 8151A	12/19/12 18:17	RGG	QL-02
2,4,5-TP (Silvex) [93-72-1] ^	0.20	U	ug/L	1	0.20	0.50	2	EPA 8151A	12/19/12 18:17	RGG	QL-02
2,4-D [94-75-7] ^	0.16	U	ug/L	1	0.16	0.50	2	EPA 8151A	12/19/12 18:17	RGG	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	12/19/12 18:17	RGG	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	12/19/12 18:17	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*2.0*	*1*	*2.00*	*98 %*	*68-139*	*2L18004*	*EPA 8151A*	*12/19/12 18:17*	*RGG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: MW-19 | **Lab Sample ID:** C214412-14 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/11/12 16:05 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 10:54	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 10:54	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	12/30/12 10:54	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 10:54	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	12/30/12 10:54	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 10:54	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 10:54	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 10:54	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 10:54	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 10:54	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 10:54	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	12/30/12 10:54	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 10:54	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 10:54	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 10:54	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	12/30/12 10:54	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 10:54	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 10:54	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	12/30/12 10:54	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 10:54	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 10:54	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 10:54	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	12/30/12 10:54	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 10:54	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 10:54	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	12/30/12 10:54	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 10:54	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 10:54	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	12/30/12 10:54	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	12/30/12 10:54	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 10:54	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	12/30/12 10:54	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 10:54	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 10:54	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	12/30/12 10:54	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	12/30/12 10:54	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	12/30/12 10:54	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 10:54	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 10:54	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 10:54	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 10:54	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 10:54	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 10:54	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 10:54	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 10:54	DFM	

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Description: MW-19 | **Lab Sample ID:** C214412-14 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/11/12 16:05 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 10:54	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 10:54	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	12/30/12 10:54	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 10:54	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 10:54	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 10:54	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	12/30/12 10:54	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 10:54	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 10:54	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 10:54	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 10:54	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	12/30/12 10:54	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 10:54	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 10:54	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 10:54	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 10:54	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 10:54	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	12/30/12 10:54	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 10:54	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 10:54	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 10:54	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 10:54	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 10:54	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 10:54	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 10:54	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 10:54	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 10:54	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 10:54	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 10:54	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 10:54	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 10:54	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 10:54	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	12/30/12 10:54	DFM	QV-01
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	12/30/12 10:54	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 10:54	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 10:54	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 10:54	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	12/30/12 10:54	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 10:54	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 10:54	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 10:54	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 10:54	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 10:54	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	12/30/12 10:54	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 10:54	DFM	

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Description: MW-19 | **Lab Sample ID:** C214412-14 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/11/12 16:05 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 10:54	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 10:54	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 10:54	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 10:54	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 10:54	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 10:54	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 10:54	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 10:54	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 10:54	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 10:54	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 10:54	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 10:54	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 10:54	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 10:54	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*91*	*1*	*100*	*91 %*	*10-179*	*2L17001*	*EPA 8270D*	*12/30/12 10:54*	*DFM*	
2-Fluorobiphenyl	*43*	*1*	*50.0*	*87 %*	*10-149*	*2L17001*	*EPA 8270D*	*12/30/12 10:54*	*DFM*	
2-Fluorophenol	*74*	*1*	*100*	*74 %*	*10-110*	*2L17001*	*EPA 8270D*	*12/30/12 10:54*	*DFM*	
Nitrobenzene-d5	*40*	*1*	*50.0*	*79 %*	*10-149*	*2L17001*	*EPA 8270D*	*12/30/12 10:54*	*DFM*	
Phenol-d5	*62*	*1*	*100*	*62 %*	*10-88*	*2L17001*	*EPA 8270D*	*12/30/12 10:54*	*DFM*	
Terphenyl-d14	*48*	*1*	*50.0*	*96 %*	*10-188*	*2L17001*	*EPA 8270D*	*12/30/12 10:54*	*DFM*	

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Description: MW-19 | **Lab Sample ID:** C214412-14 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/11/12 16:05 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	12/27/12 13:19	MSZ	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	12/27/12 13:19	MSZ	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	12/27/12 13:19	MSZ	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	12/27/12 13:19	MSZ	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	12/27/12 13:19	MSZ	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	12/27/12 13:19	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	12/27/12 13:19	MSZ	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	12/27/12 13:19	MSZ	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	12/27/12 13:19	MSZ	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	12/27/12 13:19	MSZ	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	12/27/12 13:19	MSZ	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	12/27/12 13:19	MSZ	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	12/27/12 13:19	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	12/27/12 13:19	MSZ	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	12/27/12 13:19	MSZ	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	12/27/12 13:19	MSZ	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	12/27/12 13:19	MSZ	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	12/27/12 13:19	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	12/27/12 13:19	MSZ	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	12/27/12 13:19	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	12/27/12 13:19	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.1*	*1*	*1.00*	*109 %*	*44-134*	*2L18024*	*EPA 8081B*	*12/27/12 13:19*	*MSZ*	
Decachlorobiphenyl	*0.96*	*1*	*1.00*	*96 %*	*37-149*	*2L18024*	*EPA 8081B*	*12/27/12 13:19*	*MSZ*	

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Description: MW-19 | **Lab Sample ID:** C214412-14 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/11/12 16:05 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.19	U	ug/L	1	0.19	0.50	2	EPA 8082A	12/27/12 13:19	MSZ	
PCB-1221 [11104-28-2] ^	0.046	U	ug/L	1	0.046	0.50	NE	EPA 8082A	12/27/12 13:19	MSZ	
PCB-1232 [11141-16-5] ^	0.028	U	ug/L	1	0.028	0.50	NE	EPA 8082A	12/27/12 13:19	MSZ	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	12/27/12 13:19	MSZ	
PCB-1254 [11097-69-1] ^	0.015	U	ug/L	1	0.015	0.50	NE	EPA 8082A	12/27/12 13:19	MSZ	
PCB-1260 [11096-82-5] ^	0.13	U	ug/L	1	0.13	0.50	NE	EPA 8082A	12/27/12 13:19	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.1*	*1*	*1.00*	*109 %*	*45-151*	*2L18025*	*EPA 8082A*	*12/27/12 13:19*	*MSZ*	
Decachlorobiphenyl	*0.96*	*1*	*1.00*	*96 %*	*42-159*	*2L18025*	*EPA 8082A*	*12/27/12 13:19*	*MSZ*	

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Description: MW-19
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C214412-14
Sampled: 12/11/12 16:05
Sampled By: J. Pfohl

Received: 12/12/12 08:20
Work Order: C214412

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	4.9	U	ug/L	1	4.9	10	10	EPA 9014	12/19/12 10:51	JCS	

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Description: MW-19 | **Lab Sample ID:** C214412-14 | **Received:** 12/12/12 08:20

Matrix: Ground Water | **Sampled:** 12/11/12 16:05 | **Work Order:** C214412

Project: Alexander MSWLF | **Sampled By:** J. Pfohl

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.23	U	ug/L	1	0.23	0.50	2	EPA 8151A	12/19/12 18:43	RGG	QL-02
2,4,5-TP (Silvex) [93-72-1] ^	0.20	U	ug/L	1	0.20	0.50	2	EPA 8151A	12/19/12 18:43	RGG	QL-02
2,4-D [94-75-7] ^	0.16	U	ug/L	1	0.16	0.50	2	EPA 8151A	12/19/12 18:43	RGG	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	12/19/12 18:43	RGG	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	12/19/12 18:43	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*2.0*	*1*	*2.00*	*99 %*	*68-139*	*2L18004*	*EPA 8151A*	*12/19/12 18:43*	*RGG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: MW-3 | **Lab Sample ID:** C215099-01 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/12/12 13:00 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 15:48	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 15:48	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	12/30/12 15:48	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 15:48	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	12/30/12 15:48	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 15:48	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 15:48	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 15:48	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 15:48	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 15:48	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 15:48	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	12/30/12 15:48	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 15:48	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 15:48	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 15:48	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	12/30/12 15:48	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 15:48	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 15:48	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	12/30/12 15:48	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 15:48	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 15:48	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 15:48	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	12/30/12 15:48	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 15:48	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 15:48	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	12/30/12 15:48	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 15:48	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 15:48	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	12/30/12 15:48	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	12/30/12 15:48	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 15:48	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	12/30/12 15:48	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 15:48	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 15:48	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	12/30/12 15:48	DFM	QV-01
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	12/30/12 15:48	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	12/30/12 15:48	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 15:48	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 15:48	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 15:48	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 15:48	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 15:48	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 15:48	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 15:48	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 15:48	DFM	

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Description: MW-3 | **Lab Sample ID:** C215099-01 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/12/12 13:00 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 15:48	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 15:48	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	12/30/12 15:48	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 15:48	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 15:48	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 15:48	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	12/30/12 15:48	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 15:48	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 15:48	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 15:48	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 15:48	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	12/30/12 15:48	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 15:48	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 15:48	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 15:48	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 15:48	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 15:48	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	12/30/12 15:48	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 15:48	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 15:48	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 15:48	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 15:48	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 15:48	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 15:48	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 15:48	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 15:48	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 15:48	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 15:48	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 15:48	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 15:48	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 15:48	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 15:48	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	12/30/12 15:48	DFM	QV-01
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	12/30/12 15:48	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 15:48	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 15:48	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 15:48	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	12/30/12 15:48	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 15:48	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 15:48	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 15:48	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 15:48	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 15:48	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	12/30/12 15:48	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 15:48	DFM	

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Description: MW-3 | **Lab Sample ID:** C215099-01 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/12/12 13:00 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 15:48	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 15:48	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 15:48	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 15:48	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 15:48	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 15:48	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 15:48	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 15:48	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 15:48	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 15:48	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 15:48	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 15:48	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 15:48	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 15:48	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*95*	*1*	*100*	*95 %*	*10-179*	*2L19027*	*EPA 8270D*	*12/30/12 15:48*	*DFM*	
2-Fluorobiphenyl	*37*	*1*	*50.0*	*74 %*	*10-149*	*2L19027*	*EPA 8270D*	*12/30/12 15:48*	*DFM*	
2-Fluorophenol	*56*	*1*	*100*	*56 %*	*10-110*	*2L19027*	*EPA 8270D*	*12/30/12 15:48*	*DFM*	
Nitrobenzene-d5	*34*	*1*	*50.0*	*67 %*	*10-149*	*2L19027*	*EPA 8270D*	*12/30/12 15:48*	*DFM*	
Phenol-d5	*43*	*1*	*100*	*43 %*	*10-88*	*2L19027*	*EPA 8270D*	*12/30/12 15:48*	*DFM*	
Terphenyl-d14	*45*	*1*	*50.0*	*90 %*	*10-188*	*2L19027*	*EPA 8270D*	*12/30/12 15:48*	*DFM*	

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Description: MW-3 | **Lab Sample ID:** C215099-01 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/12/12 13:00 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	12/27/12 13:46	MSZ	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	12/27/12 13:46	MSZ	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	12/27/12 13:46	MSZ	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	12/27/12 13:46	MSZ	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	12/27/12 13:46	MSZ	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	12/27/12 13:46	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	12/27/12 13:46	MSZ	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	12/27/12 13:46	MSZ	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	12/27/12 13:46	MSZ	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	12/27/12 13:46	MSZ	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	12/27/12 13:46	MSZ	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	12/27/12 13:46	MSZ	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	12/27/12 13:46	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	12/27/12 13:46	MSZ	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	12/27/12 13:46	MSZ	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	12/27/12 13:46	MSZ	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	12/27/12 13:46	MSZ	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	12/27/12 13:46	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	12/27/12 13:46	MSZ	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	12/27/12 13:46	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	12/27/12 13:46	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*2.0*	*1*	*1.00*	*198 %*	*44-134*	*2L18024*	*EPA 8081B*	*12/27/12 13:46*	*MSZ*	*QS-06*
Decachlorobiphenyl	*0.86*	*1*	*1.00*	*86 %*	*37-149*	*2L18024*	*EPA 8081B*	*12/27/12 13:46*	*MSZ*	

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Description: MW-3
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C215099-01
Sampled: 12/12/12 13:00
Sampled By: Jonathan Pfohl

Received: 12/14/12 08:45
Work Order: C215099

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.19	U	ug/L	1	0.19	0.50	2	EPA 8082A	12/27/12 13:46	MSZ	
PCB-1221 [11104-28-2] ^	0.046	U	ug/L	1	0.046	0.50	NE	EPA 8082A	12/27/12 13:46	MSZ	
PCB-1232 [11141-16-5] ^	0.028	U	ug/L	1	0.028	0.50	NE	EPA 8082A	12/27/12 13:46	MSZ	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	12/27/12 13:46	MSZ	
PCB-1254 [11097-69-1] ^	0.015	U	ug/L	1	0.015	0.50	NE	EPA 8082A	12/27/12 13:46	MSZ	
PCB-1260 [11096-82-5] ^	0.13	U	ug/L	1	0.13	0.50	NE	EPA 8082A	12/27/12 13:46	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*2.0*	*1*	*1.00*	*198 %*	*45-151*	*2L18025*	*EPA 8082A*	*12/27/12 13:46*	*MSZ*	*QS-06*
Decachlorobiphenyl	*0.86*	*1*	*1.00*	*86 %*	*42-159*	*2L18025*	*EPA 8082A*	*12/27/12 13:46*	*MSZ*	

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Description: MW-3
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C215099-01
Sampled: 12/12/12 13:00
Sampled By: Jonathan Pfohl

Received: 12/14/12 08:45
Work Order: C215099

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	4.9	U	ug/L	1	4.9	10	10	EPA 9014	12/19/12 10:53	JCS	

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Description: MW-3
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C215099-01
Sampled: 12/12/12 13:00
Sampled By: Jonathan Pfohl

Received: 12/14/12 08:45
Work Order: C215099

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.23	U	ug/L	1	0.23	0.50	2	EPA 8151A	12/22/12 02:53	RGG	
2,4,5-TP (Silvex) [93-72-1] ^	0.20	U	ug/L	1	0.20	0.50	2	EPA 8151A	12/22/12 02:53	RGG	
2,4-D [94-75-7] ^	0.16	U	ug/L	1	0.16	0.50	2	EPA 8151A	12/22/12 02:53	RGG	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	12/22/12 02:53	RGG	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	12/22/12 02:53	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*2.4*	*1*	*2.00*	*122 %*	*68-139*	*2L18057*	*EPA 8151A*	*12/22/12 02:53*	*RGG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: MW-5
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C215099-02
Sampled: 12/13/12 11:25
Sampled By: Jonathan Pfohl

Received: 12/14/12 08:45
Work Order: C215099

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Methane [74-82-8]	**2.28**	D	mg/L	100	0.0430	0.100	NE	RSK-175	12/20/12 15:22	GMB	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: MW-7 | **Lab Sample ID:** C215099-03 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/13/12 12:00 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 16:19	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 16:19	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	12/30/12 16:19	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 16:19	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	12/30/12 16:19	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 16:19	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 16:19	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 16:19	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 16:19	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 16:19	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 16:19	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	12/30/12 16:19	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 16:19	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 16:19	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 16:19	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	12/30/12 16:19	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 16:19	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 16:19	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	12/30/12 16:19	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 16:19	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 16:19	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 16:19	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	12/30/12 16:19	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 16:19	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 16:19	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	12/30/12 16:19	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 16:19	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 16:19	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	12/30/12 16:19	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	12/30/12 16:19	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 16:19	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	12/30/12 16:19	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 16:19	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 16:19	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	12/30/12 16:19	DFM	QV-01
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	12/30/12 16:19	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	12/30/12 16:19	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 16:19	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 16:19	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 16:19	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 16:19	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 16:19	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 16:19	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 16:19	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 16:19	DFM	

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Description: MW-7 | **Lab Sample ID:** C215099-03 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/13/12 12:00 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 16:19	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 16:19	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	12/30/12 16:19	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 16:19	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 16:19	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 16:19	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	12/30/12 16:19	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 16:19	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 16:19	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 16:19	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 16:19	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	12/30/12 16:19	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 16:19	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 16:19	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 16:19	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 16:19	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 16:19	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	12/30/12 16:19	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 16:19	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 16:19	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 16:19	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 16:19	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 16:19	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 16:19	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 16:19	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 16:19	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 16:19	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 16:19	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 16:19	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 16:19	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 16:19	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 16:19	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	12/30/12 16:19	DFM	QV-01
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	12/30/12 16:19	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 16:19	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 16:19	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 16:19	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	12/30/12 16:19	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 16:19	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 16:19	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 16:19	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 16:19	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 16:19	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	12/30/12 16:19	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 16:19	DFM	

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Description: MW-7 | **Lab Sample ID:** C215099-03 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/13/12 12:00 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 16:19	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 16:19	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 16:19	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 16:19	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 16:19	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 16:19	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 16:19	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 16:19	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 16:19	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 16:19	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 16:19	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 16:19	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 16:19	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 16:19	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*83*	*1*	*100*	*83 %*	*10-179*	*2L19027*	*EPA 8270D*	*12/30/12 16:19*	*DFM*	
2-Fluorobiphenyl	*36*	*1*	*50.0*	*71 %*	*10-149*	*2L19027*	*EPA 8270D*	*12/30/12 16:19*	*DFM*	
2-Fluorophenol	*52*	*1*	*100*	*52 %*	*10-110*	*2L19027*	*EPA 8270D*	*12/30/12 16:19*	*DFM*	
Nitrobenzene-d5	*31*	*1*	*50.0*	*62 %*	*10-149*	*2L19027*	*EPA 8270D*	*12/30/12 16:19*	*DFM*	
Phenol-d5	*39*	*1*	*100*	*39 %*	*10-88*	*2L19027*	*EPA 8270D*	*12/30/12 16:19*	*DFM*	
Terphenyl-d14	*42*	*1*	*50.0*	*83 %*	*10-188*	*2L19027*	*EPA 8270D*	*12/30/12 16:19*	*DFM*	

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Description: MW-7 | **Lab Sample ID:** C215099-03 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/13/12 12:00 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	12/27/12 13:59	MSZ	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	12/27/12 13:59	MSZ	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	12/27/12 13:59	MSZ	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	12/27/12 13:59	MSZ	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	12/27/12 13:59	MSZ	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	12/27/12 13:59	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	12/27/12 13:59	MSZ	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	12/27/12 13:59	MSZ	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	12/27/12 13:59	MSZ	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	12/27/12 13:59	MSZ	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	12/27/12 13:59	MSZ	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	12/27/12 13:59	MSZ	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	12/27/12 13:59	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	12/27/12 13:59	MSZ	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	12/27/12 13:59	MSZ	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	12/27/12 13:59	MSZ	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	12/27/12 13:59	MSZ	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	12/27/12 13:59	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	12/27/12 13:59	MSZ	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	12/27/12 13:59	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	12/27/12 13:59	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.1*	*1*	*1.00*	*108 %*	*44-134*	*2L18024*	*EPA 8081B*	*12/27/12 13:59*	*MSZ*	
Decachlorobiphenyl	*0.29*	*1*	*1.00*	*29 %*	*37-149*	*2L18024*	*EPA 8081B*	*12/27/12 13:59*	*MSZ*	*QS-03*

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Description: MW-7
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C215099-03
Sampled: 12/13/12 12:00
Sampled By: Jonathan Pfohl

Received: 12/14/12 08:45
Work Order: C215099

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.19	U	ug/L	1	0.19	0.50	2	EPA 8082A	12/27/12 13:59	MSZ	
PCB-1221 [11104-28-2] ^	0.046	U	ug/L	1	0.046	0.50	NE	EPA 8082A	12/27/12 13:59	MSZ	
PCB-1232 [11141-16-5] ^	0.028	U	ug/L	1	0.028	0.50	NE	EPA 8082A	12/27/12 13:59	MSZ	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	12/27/12 13:59	MSZ	
PCB-1254 [11097-69-1] ^	0.015	U	ug/L	1	0.015	0.50	NE	EPA 8082A	12/27/12 13:59	MSZ	
PCB-1260 [11096-82-5] ^	0.13	U	ug/L	1	0.13	0.50	NE	EPA 8082A	12/27/12 13:59	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.1*	*1*	*1.00*	*108 %*	*45-151*	*2L18025*	*EPA 8082A*	*12/27/12 13:59*	*MSZ*	
Decachlorobiphenyl	*0.29*	*1*	*1.00*	*29 %*	*42-159*	*2L18025*	*EPA 8082A*	*12/27/12 13:59*	*MSZ*	*QS-03*

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Description: MW-7
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C215099-03
Sampled: 12/13/12 12:00
Sampled By: Jonathan Pfohl

Received: 12/14/12 08:45
Work Order: C215099

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	4.9	U	ug/L	1	4.9	10	10	EPA 9014	12/19/12 10:55	JCS	

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Description: MW-7
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C215099-03
Sampled: 12/13/12 12:00
Sampled By: Jonathan Pfohl

Received: 12/14/12 08:45
Work Order: C215099

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.23	U	ug/L	1	0.23	0.50	2	EPA 8151A	12/22/12 03:18	RGG	
2,4,5-TP (Silvex) [93-72-1] ^	0.20	U	ug/L	1	0.20	0.50	2	EPA 8151A	12/22/12 03:18	RGG	
2,4-D [94-75-7] ^	0.16	U	ug/L	1	0.16	0.50	2	EPA 8151A	12/22/12 03:18	RGG	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	12/22/12 03:18	RGG	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	12/22/12 03:18	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*2.3*	*1*	*2.00*	*117 %*	*68-139*	*2L18057*	*EPA 8151A*	*12/22/12 03:18*	*RGG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: MW-11 | **Lab Sample ID:** C215099-04 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/12/12 12:00 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 16:50	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 16:50	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	12/30/12 16:50	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 16:50	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	12/30/12 16:50	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 16:50	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 16:50	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 16:50	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 16:50	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 16:50	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 16:50	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	12/30/12 16:50	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 16:50	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 16:50	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 16:50	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	12/30/12 16:50	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 16:50	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 16:50	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	12/30/12 16:50	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 16:50	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 16:50	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 16:50	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	12/30/12 16:50	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 16:50	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 16:50	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	12/30/12 16:50	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 16:50	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 16:50	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	12/30/12 16:50	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	12/30/12 16:50	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 16:50	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	12/30/12 16:50	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 16:50	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 16:50	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	12/30/12 16:50	DFM	QV-01
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	12/30/12 16:50	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	12/30/12 16:50	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 16:50	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 16:50	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 16:50	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 16:50	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 16:50	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 16:50	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 16:50	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 16:50	DFM	

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Description: MW-11 | **Lab Sample ID:** C215099-04 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/12/12 12:00 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 16:50	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 16:50	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	12/30/12 16:50	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 16:50	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 16:50	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 16:50	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	12/30/12 16:50	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 16:50	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 16:50	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 16:50	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 16:50	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	12/30/12 16:50	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 16:50	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 16:50	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 16:50	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 16:50	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 16:50	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	12/30/12 16:50	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 16:50	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 16:50	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 16:50	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 16:50	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 16:50	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 16:50	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 16:50	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 16:50	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 16:50	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 16:50	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 16:50	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 16:50	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 16:50	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 16:50	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	12/30/12 16:50	DFM	QV-01
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	12/30/12 16:50	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 16:50	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 16:50	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 16:50	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	12/30/12 16:50	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 16:50	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 16:50	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 16:50	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 16:50	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 16:50	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	12/30/12 16:50	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 16:50	DFM	

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Description: MW-11 | **Lab Sample ID:** C215099-04 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/12/12 12:00 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 16:50	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 16:50	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 16:50	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 16:50	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 16:50	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 16:50	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 16:50	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 16:50	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 16:50	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 16:50	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 16:50	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 16:50	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 16:50	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 16:50	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*100*	*1*	*100*	*100 %*	*10-179*	*2L19027*	*EPA 8270D*	*12/30/12 16:50*	*DFM*	
2-Fluorobiphenyl	*39*	*1*	*50.0*	*79 %*	*10-149*	*2L19027*	*EPA 8270D*	*12/30/12 16:50*	*DFM*	
2-Fluorophenol	*61*	*1*	*100*	*61 %*	*10-110*	*2L19027*	*EPA 8270D*	*12/30/12 16:50*	*DFM*	
Nitrobenzene-d5	*38*	*1*	*50.0*	*76 %*	*10-149*	*2L19027*	*EPA 8270D*	*12/30/12 16:50*	*DFM*	
Phenol-d5	*46*	*1*	*100*	*46 %*	*10-88*	*2L19027*	*EPA 8270D*	*12/30/12 16:50*	*DFM*	
Terphenyl-d14	*48*	*1*	*50.0*	*96 %*	*10-188*	*2L19027*	*EPA 8270D*	*12/30/12 16:50*	*DFM*	

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Description: MW-11 | **Lab Sample ID:** C215099-04 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/12/12 12:00 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	12/27/12 14:12	MSZ	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	12/27/12 14:12	MSZ	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	12/27/12 14:12	MSZ	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	12/27/12 14:12	MSZ	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	12/27/12 14:12	MSZ	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	12/27/12 14:12	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	12/27/12 14:12	MSZ	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	12/27/12 14:12	MSZ	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	12/27/12 14:12	MSZ	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	12/27/12 14:12	MSZ	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	12/27/12 14:12	MSZ	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	12/27/12 14:12	MSZ	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	12/27/12 14:12	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	12/27/12 14:12	MSZ	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	12/27/12 14:12	MSZ	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	12/27/12 14:12	MSZ	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	12/27/12 14:12	MSZ	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	12/27/12 14:12	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	12/27/12 14:12	MSZ	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	12/27/12 14:12	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	12/27/12 14:12	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.90*	*1*	*1.00*	*90 %*	*44-134*	*2L18024*	*EPA 8081B*	*12/27/12 14:12*	*MSZ*	
Decachlorobiphenyl	*0.68*	*1*	*1.00*	*68 %*	*37-149*	*2L18024*	*EPA 8081B*	*12/27/12 14:12*	*MSZ*	

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Description: MW-11 | **Lab Sample ID:** C215099-04 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/12/12 12:00 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.19	U	ug/L	1	0.19	0.50	2	EPA 8082A	12/27/12 14:12	MSZ	
PCB-1221 [11104-28-2] ^	0.046	U	ug/L	1	0.046	0.50	NE	EPA 8082A	12/27/12 14:12	MSZ	
PCB-1232 [11141-16-5] ^	0.028	U	ug/L	1	0.028	0.50	NE	EPA 8082A	12/27/12 14:12	MSZ	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	12/27/12 14:12	MSZ	
PCB-1254 [11097-69-1] ^	0.015	U	ug/L	1	0.015	0.50	NE	EPA 8082A	12/27/12 14:12	MSZ	
PCB-1260 [11096-82-5] ^	0.13	U	ug/L	1	0.13	0.50	NE	EPA 8082A	12/27/12 14:12	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.90*	*1*	*1.00*	*90 %*	*45-151*	*2L18025*	*EPA 8082A*	*12/27/12 14:12*	*MSZ*	
Decachlorobiphenyl	*0.68*	*1*	*1.00*	*68 %*	*42-159*	*2L18025*	*EPA 8082A*	*12/27/12 14:12*	*MSZ*	

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Description: MW-11
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C215099-04
Sampled: 12/12/12 12:00
Sampled By: Jonathan Pfohl

Received: 12/14/12 08:45
Work Order: C215099

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	4.9	U	ug/L	1	4.9	10	10	EPA 9014	12/19/12 10:57	JCS	

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Description: MW-11 | **Lab Sample ID:** C215099-04 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/12/12 12:00 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.23	U	ug/L	1	0.23	0.50	2	EPA 8151A	12/22/12 03:44	RGG	
2,4,5-TP (Silvex) [93-72-1] ^	0.20	U	ug/L	1	0.20	0.50	2	EPA 8151A	12/22/12 03:44	RGG	
2,4-D [94-75-7] ^	0.16	U	ug/L	1	0.16	0.50	2	EPA 8151A	12/22/12 03:44	RGG	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	12/22/12 03:44	RGG	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	12/22/12 03:44	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*2.1*	*1*	*2.00*	*104 %*	*68-139*	*2L18057*	*EPA 8151A*	*12/22/12 03:44*	*RGG*	

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Description: MW-11
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C215099-04
Sampled: 12/12/12 12:00
Sampled By: Jonathan Pfohl

Received: 12/14/12 08:45
Work Order: C215099

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Methane [74-82-8]	**4.58**	D	mg/L	100	0.0430	0.100	NE	RSK-175	12/20/12 15:38	GMB	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: MW-12 MS/MSD
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C215099-05
Sampled: 12/12/12 16:40
Sampled By: Jonathan Pfohl

Received: 12/14/12 08:45
Work Order: C215099

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 17:21	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 17:21	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	12/30/12 17:21	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 17:21	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	12/30/12 17:21	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 17:21	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 17:21	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 17:21	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 17:21	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 17:21	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 17:21	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	12/30/12 17:21	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 17:21	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 17:21	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 17:21	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	12/30/12 17:21	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 17:21	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 17:21	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	12/30/12 17:21	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 17:21	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 17:21	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 17:21	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	12/30/12 17:21	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 17:21	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 17:21	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	12/30/12 17:21	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 17:21	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 17:21	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	12/30/12 17:21	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	12/30/12 17:21	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 17:21	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	12/30/12 17:21	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 17:21	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 17:21	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	12/30/12 17:21	DFM	QV-01
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	12/30/12 17:21	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	12/30/12 17:21	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 17:21	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 17:21	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 17:21	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 17:21	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 17:21	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 17:21	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 17:21	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 17:21	DFM	

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Description: MW-12 MS/MSD
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C215099-05
Sampled: 12/12/12 16:40
Sampled By: Jonathan Pfohl

Received: 12/14/12 08:45
Work Order: C215099

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 17:21	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 17:21	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	12/30/12 17:21	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 17:21	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 17:21	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 17:21	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	12/30/12 17:21	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 17:21	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 17:21	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 17:21	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 17:21	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	12/30/12 17:21	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 17:21	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 17:21	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 17:21	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 17:21	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 17:21	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	12/30/12 17:21	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 17:21	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 17:21	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 17:21	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 17:21	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 17:21	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 17:21	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 17:21	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 17:21	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 17:21	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 17:21	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 17:21	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 17:21	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 17:21	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 17:21	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	12/30/12 17:21	DFM	QV-01
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	12/30/12 17:21	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 17:21	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 17:21	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 17:21	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	12/30/12 17:21	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 17:21	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 17:21	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 17:21	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 17:21	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 17:21	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	12/30/12 17:21	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 17:21	DFM	

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Description: MW-12 MS/MSD
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C215099-05
Sampled: 12/12/12 16:40
Sampled By: Jonathan Pfohl

Received: 12/14/12 08:45
Work Order: C215099

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 17:21	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 17:21	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 17:21	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 17:21	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 17:21	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 17:21	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 17:21	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 17:21	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 17:21	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 17:21	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 17:21	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 17:21	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 17:21	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 17:21	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*92*	*1*	*100*	*92 %*	*10-179*	*2L19027*	*EPA 8270D*	*12/30/12 17:21*	*DFM*	
2-Fluorobiphenyl	*37*	*1*	*50.0*	*73 %*	*10-149*	*2L19027*	*EPA 8270D*	*12/30/12 17:21*	*DFM*	
2-Fluorophenol	*56*	*1*	*100*	*56 %*	*10-110*	*2L19027*	*EPA 8270D*	*12/30/12 17:21*	*DFM*	
Nitrobenzene-d5	*33*	*1*	*50.0*	*66 %*	*10-149*	*2L19027*	*EPA 8270D*	*12/30/12 17:21*	*DFM*	
Phenol-d5	*41*	*1*	*100*	*41 %*	*10-88*	*2L19027*	*EPA 8270D*	*12/30/12 17:21*	*DFM*	
Terphenyl-d14	*47*	*1*	*50.0*	*94 %*	*10-188*	*2L19027*	*EPA 8270D*	*12/30/12 17:21*	*DFM*	

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Description: MW-12 MS/MSD
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Project: Alexander MSWLF

Lab Sample ID: C215099-05
Sampled: 12/12/12 16:40
Sampled By: Jonathan Pfohl

Received: 12/14/12 08:45
Work Order: C215099

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	12/27/12 13:32	MSZ	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	12/27/12 13:32	MSZ	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	12/27/12 13:32	MSZ	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	12/27/12 13:32	MSZ	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	12/27/12 13:32	MSZ	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	12/27/12 13:32	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	12/27/12 13:32	MSZ	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	12/27/12 13:32	MSZ	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	12/27/12 13:32	MSZ	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	12/27/12 13:32	MSZ	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	12/27/12 13:32	MSZ	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	12/27/12 13:32	MSZ	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	12/27/12 13:32	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	12/27/12 13:32	MSZ	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	12/27/12 13:32	MSZ	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	12/27/12 13:32	MSZ	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	12/27/12 13:32	MSZ	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	12/27/12 13:32	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	12/27/12 13:32	MSZ	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	12/27/12 13:32	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	12/27/12 13:32	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.1*	*1*	*1.00*	*107 %*	*44-134*	*2L18024*	*EPA 8081B*	*12/27/12 13:32*	*MSZ*	
Decachlorobiphenyl	*0.86*	*1*	*1.00*	*86 %*	*37-149*	*2L18024*	*EPA 8081B*	*12/27/12 13:32*	*MSZ*	

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Description: MW-12 MS/MSD
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Project: Alexander MSWLF

Lab Sample ID: C215099-05
Sampled: 12/12/12 16:40
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Received: 12/14/12 08:45
Work Order: C215099

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.19	U	ug/L	1	0.19	0.50	2	EPA 8082A	12/27/12 13:32	MSZ	
PCB-1221 [11104-28-2] ^	0.046	U	ug/L	1	0.046	0.50	NE	EPA 8082A	12/27/12 13:32	MSZ	
PCB-1232 [11141-16-5] ^	0.028	U	ug/L	1	0.028	0.50	NE	EPA 8082A	12/27/12 13:32	MSZ	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	12/27/12 13:32	MSZ	
PCB-1254 [11097-69-1] ^	0.015	U	ug/L	1	0.015	0.50	NE	EPA 8082A	12/27/12 13:32	MSZ	
PCB-1260 [11096-82-5] ^	0.13	U	ug/L	1	0.13	0.50	NE	EPA 8082A	12/27/12 13:32	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.1*	*1*	*1.00*	*107 %*	*45-151*	*2L18025*	*EPA 8082A*	*12/27/12 13:32*	*MSZ*	
Decachlorobiphenyl	*0.86*	*1*	*1.00*	*86 %*	*42-159*	*2L18025*	*EPA 8082A*	*12/27/12 13:32*	*MSZ*	

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Description: MW-12 MS/MSD
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C215099-05
Sampled: 12/12/12 16:40
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Received: 12/14/12 08:45
Work Order: C215099

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	4.9	U	ug/L	1	4.9	10	10	EPA 9014	12/19/12 10:42	JCS	

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Lab Sample ID: C215099-05
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Received: 12/14/12 08:45
Work Order: C215099

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.23	U	ug/L	1	0.23	0.50	2	EPA 8151A	12/22/12 02:27	RGG	
2,4,5-TP (Silvex) [93-72-1] ^	0.20	U	ug/L	1	0.20	0.50	2	EPA 8151A	12/22/12 02:27	RGG	
2,4-D [94-75-7] ^	0.16	U	ug/L	1	0.16	0.50	2	EPA 8151A	12/22/12 02:27	RGG	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	12/22/12 02:27	RGG	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	12/22/12 02:27	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*2.0*	*1*	*2.00*	*101 %*	*68-139*	*2L18057*	*EPA 8151A*	*12/22/12 02:27*	*RGG*	

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Description: MW-12 MS/MSD
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C215099-05
Sampled: 12/12/12 16:40
Sampled By: Jonathan Pfohl

Received: 12/14/12 08:45
Work Order: C215099

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Methane [74-82-8]	**7.40**	D	mg/L	100	0.0430	0.100	NE	RSK-175	12/20/12 15:54	GMB	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: MW-12D | **Lab Sample ID:** C215099-06 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/12/12 16:05 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 17:52	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 17:52	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	12/30/12 17:52	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 17:52	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	12/30/12 17:52	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 17:52	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 17:52	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 17:52	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 17:52	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 17:52	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 17:52	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	12/30/12 17:52	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 17:52	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 17:52	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 17:52	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	12/30/12 17:52	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 17:52	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 17:52	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	12/30/12 17:52	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 17:52	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 17:52	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 17:52	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	12/30/12 17:52	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 17:52	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 17:52	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	12/30/12 17:52	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 17:52	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 17:52	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	12/30/12 17:52	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	12/30/12 17:52	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 17:52	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	12/30/12 17:52	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 17:52	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 17:52	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	12/30/12 17:52	DFM	QV-01
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	12/30/12 17:52	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	12/30/12 17:52	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 17:52	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 17:52	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 17:52	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 17:52	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 17:52	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 17:52	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 17:52	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 17:52	DFM	

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Description: MW-12D | **Lab Sample ID:** C215099-06 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/12/12 16:05 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 17:52	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 17:52	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	12/30/12 17:52	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 17:52	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 17:52	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 17:52	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	12/30/12 17:52	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 17:52	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 17:52	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 17:52	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 17:52	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	12/30/12 17:52	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 17:52	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 17:52	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 17:52	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 17:52	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 17:52	DFM	
Di-n-octylphthalate [117-84-0] ^	**3.1**	J	ug/L	1	3.1	10	10	EPA 8270D	12/30/12 17:52	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 17:52	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 17:52	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 17:52	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 17:52	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 17:52	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 17:52	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 17:52	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 17:52	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 17:52	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 17:52	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 17:52	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 17:52	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 17:52	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 17:52	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	12/30/12 17:52	DFM	QV-01
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	12/30/12 17:52	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 17:52	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 17:52	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 17:52	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	12/30/12 17:52	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 17:52	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 17:52	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 17:52	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 17:52	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 17:52	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	12/30/12 17:52	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 17:52	DFM	

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Description: MW-12D
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C215099-06
Sampled: 12/12/12 16:05
Sampled By: Jonathan Pfohl

Received: 12/14/12 08:45
Work Order: C215099

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 17:52	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 17:52	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 17:52	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 17:52	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 17:52	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 17:52	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 17:52	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 17:52	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 17:52	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 17:52	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 17:52	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 17:52	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 17:52	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 17:52	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*91*	*1*	*100*	*91 %*	*10-179*	*2L19027*	*EPA 8270D*	*12/30/12 17:52*	*DFM*	
2-Fluorobiphenyl	*36*	*1*	*50.0*	*73 %*	*10-149*	*2L19027*	*EPA 8270D*	*12/30/12 17:52*	*DFM*	
2-Fluorophenol	*58*	*1*	*100*	*58 %*	*10-110*	*2L19027*	*EPA 8270D*	*12/30/12 17:52*	*DFM*	
Nitrobenzene-d5	*34*	*1*	*50.0*	*69 %*	*10-149*	*2L19027*	*EPA 8270D*	*12/30/12 17:52*	*DFM*	
Phenol-d5	*43*	*1*	*100*	*43 %*	*10-88*	*2L19027*	*EPA 8270D*	*12/30/12 17:52*	*DFM*	
Terphenyl-d14	*45*	*1*	*50.0*	*89 %*	*10-188*	*2L19027*	*EPA 8270D*	*12/30/12 17:52*	*DFM*	

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Description: MW-12D
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C215099-06
Sampled: 12/12/12 16:05
Sampled By: Jonathan Pfohl

Received: 12/14/12 08:45
Work Order: C215099

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	12/27/12 14:39	MSZ	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	12/27/12 14:39	MSZ	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	12/27/12 14:39	MSZ	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	12/27/12 14:39	MSZ	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	12/27/12 14:39	MSZ	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	12/27/12 14:39	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	12/27/12 14:39	MSZ	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	12/27/12 14:39	MSZ	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	12/27/12 14:39	MSZ	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	12/27/12 14:39	MSZ	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	12/27/12 14:39	MSZ	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	12/27/12 14:39	MSZ	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	12/27/12 14:39	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	12/27/12 14:39	MSZ	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	12/27/12 14:39	MSZ	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	12/27/12 14:39	MSZ	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	12/27/12 14:39	MSZ	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	12/27/12 14:39	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	12/27/12 14:39	MSZ	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	12/27/12 14:39	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	12/27/12 14:39	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.72*	*1*	*1.00*	*72 %*	*44-134*	*2L18024*	*EPA 8081B*	*12/27/12 14:39*	*MSZ*	
Decachlorobiphenyl	*0.76*	*1*	*1.00*	*76 %*	*37-149*	*2L18024*	*EPA 8081B*	*12/27/12 14:39*	*MSZ*	

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Description: MW-12D
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C215099-06
Sampled: 12/12/12 16:05
Sampled By: Jonathan Pfohl

Received: 12/14/12 08:45
Work Order: C215099

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.19	U	ug/L	1	0.19	0.50	2	EPA 8082A	12/27/12 14:39	MSZ	
PCB-1221 [11104-28-2] ^	0.046	U	ug/L	1	0.046	0.50	NE	EPA 8082A	12/27/12 14:39	MSZ	
PCB-1232 [11141-16-5] ^	0.028	U	ug/L	1	0.028	0.50	NE	EPA 8082A	12/27/12 14:39	MSZ	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	12/27/12 14:39	MSZ	
PCB-1254 [11097-69-1] ^	0.015	U	ug/L	1	0.015	0.50	NE	EPA 8082A	12/27/12 14:39	MSZ	
PCB-1260 [11096-82-5] ^	0.13	U	ug/L	1	0.13	0.50	NE	EPA 8082A	12/27/12 14:39	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.72*	*1*	*1.00*	*72 %*	*45-151*	*2L18025*	*EPA 8082A*	*12/27/12 14:39*	*MSZ*	
Decachlorobiphenyl	*0.76*	*1*	*1.00*	*76 %*	*42-159*	*2L18025*	*EPA 8082A*	*12/27/12 14:39*	*MSZ*	

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Description: MW-12D
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C215099-06
Sampled: 12/12/12 16:05
Sampled By: Jonathan Pfohl

Received: 12/14/12 08:45
Work Order: C215099

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	4.9	U	ug/L	1	4.9	10	10	EPA 9014	12/19/12 10:59	JCS	

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Description: MW-12D
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C215099-06
Sampled: 12/12/12 16:05
Sampled By: Jonathan Pfohl

Received: 12/14/12 08:45
Work Order: C215099

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.23	U	ug/L	1	0.23	0.50	2	EPA 8151A	12/22/12 04:09	RGG	
2,4,5-TP (Silvex) [93-72-1] ^	0.20	U	ug/L	1	0.20	0.50	2	EPA 8151A	12/22/12 04:09	RGG	
2,4-D [94-75-7] ^	0.16	U	ug/L	1	0.16	0.50	2	EPA 8151A	12/22/12 04:09	RGG	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	12/22/12 04:09	RGG	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	12/22/12 04:09	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*2.6*	*1*	*2.00*	*130 %*	*68-139*	*2L18057*	*EPA 8151A*	*12/22/12 04:09*	*RGG*	

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Description: MW-12D
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C215099-06
Sampled: 12/12/12 16:05
Sampled By: Jonathan Pfohl

Received: 12/14/12 08:45
Work Order: C215099

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Methane [74-82-8]	**4.08**	D	mg/L	100	0.0430	0.100	NE	RSK-175	12/20/12 16:26	GMB	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: EB | **Lab Sample ID:** C215099-07 | **Received:** 12/14/12 08:45
Matrix: Ground Water | **Sampled:** 12/13/12 08:30 | **Work Order:** C215099
Project: Alexander MSWLF | **Sampled By:** J.P. Fohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 18:23	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 18:23	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	12/30/12 18:23	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 18:23	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	12/30/12 18:23	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 18:23	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 18:23	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 18:23	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 18:23	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 18:23	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 18:23	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	12/30/12 18:23	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 18:23	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 18:23	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 18:23	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	12/30/12 18:23	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 18:23	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 18:23	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	12/30/12 18:23	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 18:23	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 18:23	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 18:23	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	12/30/12 18:23	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 18:23	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 18:23	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	12/30/12 18:23	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 18:23	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 18:23	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	12/30/12 18:23	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	12/30/12 18:23	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 18:23	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	12/30/12 18:23	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 18:23	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 18:23	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	12/30/12 18:23	DFM	QV-01
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	12/30/12 18:23	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	12/30/12 18:23	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 18:23	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 18:23	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 18:23	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 18:23	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 18:23	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 18:23	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 18:23	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 18:23	DFM	

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Description: EB | **Lab Sample ID:** C215099-07 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/13/12 08:30 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** J.P. Fohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 18:23	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 18:23	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	12/30/12 18:23	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 18:23	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 18:23	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 18:23	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	12/30/12 18:23	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 18:23	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 18:23	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 18:23	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 18:23	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	12/30/12 18:23	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 18:23	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 18:23	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 18:23	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 18:23	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 18:23	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	12/30/12 18:23	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 18:23	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 18:23	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 18:23	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 18:23	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 18:23	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 18:23	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 18:23	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 18:23	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 18:23	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 18:23	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 18:23	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 18:23	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 18:23	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 18:23	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	12/30/12 18:23	DFM	QV-01
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	12/30/12 18:23	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 18:23	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 18:23	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 18:23	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	12/30/12 18:23	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 18:23	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 18:23	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 18:23	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 18:23	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 18:23	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	12/30/12 18:23	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 18:23	DFM	

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Description: EB
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C215099-07
Sampled: 12/13/12 08:30
Sampled By: J.P. Fohl

Received: 12/14/12 08:45
Work Order: C215099

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 18:23	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 18:23	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 18:23	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 18:23	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 18:23	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 18:23	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 18:23	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 18:23	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 18:23	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 18:23	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 18:23	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 18:23	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 18:23	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 18:23	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*65*	*1*	*100*	*65 %*	*10-179*	*2L19027*	*EPA 8270D*	*12/30/12 18:23*	*DFM*	
2-Fluorobiphenyl	*38*	*1*	*50.0*	*76 %*	*10-149*	*2L19027*	*EPA 8270D*	*12/30/12 18:23*	*DFM*	
2-Fluorophenol	*52*	*1*	*100*	*52 %*	*10-110*	*2L19027*	*EPA 8270D*	*12/30/12 18:23*	*DFM*	
Nitrobenzene-d5	*33*	*1*	*50.0*	*67 %*	*10-149*	*2L19027*	*EPA 8270D*	*12/30/12 18:23*	*DFM*	
Phenol-d5	*37*	*1*	*100*	*37 %*	*10-88*	*2L19027*	*EPA 8270D*	*12/30/12 18:23*	*DFM*	
Terphenyl-d14	*42*	*1*	*50.0*	*84 %*	*10-188*	*2L19027*	*EPA 8270D*	*12/30/12 18:23*	*DFM*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: MW-16 | **Lab Sample ID:** C215099-08 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/13/12 13:30 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 18:53	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 18:53	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	12/30/12 18:53	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 18:53	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	12/30/12 18:53	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 18:53	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 18:53	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 18:53	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 18:53	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 18:53	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 18:53	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	12/30/12 18:53	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 18:53	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 18:53	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 18:53	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	12/30/12 18:53	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 18:53	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 18:53	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	12/30/12 18:53	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 18:53	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 18:53	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 18:53	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	12/30/12 18:53	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 18:53	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 18:53	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	12/30/12 18:53	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 18:53	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 18:53	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	12/30/12 18:53	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	12/30/12 18:53	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 18:53	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	12/30/12 18:53	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 18:53	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 18:53	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	12/30/12 18:53	DFM	QV-01
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	12/30/12 18:53	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	12/30/12 18:53	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 18:53	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 18:53	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 18:53	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 18:53	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 18:53	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 18:53	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 18:53	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 18:53	DFM	

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Description: MW-16 | **Lab Sample ID:** C215099-08 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/13/12 13:30 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 18:53	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 18:53	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	12/30/12 18:53	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 18:53	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 18:53	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 18:53	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	12/30/12 18:53	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 18:53	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 18:53	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 18:53	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 18:53	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	12/30/12 18:53	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 18:53	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 18:53	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 18:53	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 18:53	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 18:53	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	12/30/12 18:53	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 18:53	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 18:53	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 18:53	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 18:53	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 18:53	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 18:53	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 18:53	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 18:53	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 18:53	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 18:53	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 18:53	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 18:53	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 18:53	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 18:53	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	12/30/12 18:53	DFM	QV-01
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	12/30/12 18:53	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 18:53	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 18:53	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 18:53	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	12/30/12 18:53	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 18:53	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 18:53	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 18:53	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 18:53	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 18:53	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	12/30/12 18:53	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 18:53	DFM	

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Description: MW-16 | **Lab Sample ID:** C215099-08 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/13/12 13:30 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 18:53	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 18:53	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 18:53	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 18:53	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 18:53	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 18:53	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 18:53	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 18:53	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 18:53	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 18:53	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 18:53	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 18:53	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 18:53	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 18:53	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*87*	*1*	*100*	*87 %*	*10-179*	*2L19027*	*EPA 8270D*	*12/30/12 18:53*	*DFM*	
2-Fluorobiphenyl	*38*	*1*	*50.0*	*77 %*	*10-149*	*2L19027*	*EPA 8270D*	*12/30/12 18:53*	*DFM*	
2-Fluorophenol	*60*	*1*	*100*	*60 %*	*10-110*	*2L19027*	*EPA 8270D*	*12/30/12 18:53*	*DFM*	
Nitrobenzene-d5	*37*	*1*	*50.0*	*74 %*	*10-149*	*2L19027*	*EPA 8270D*	*12/30/12 18:53*	*DFM*	
Phenol-d5	*43*	*1*	*100*	*43 %*	*10-88*	*2L19027*	*EPA 8270D*	*12/30/12 18:53*	*DFM*	
Terphenyl-d14	*48*	*1*	*50.0*	*96 %*	*10-188*	*2L19027*	*EPA 8270D*	*12/30/12 18:53*	*DFM*	

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Description: MW-16 | **Lab Sample ID:** C215099-08 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/13/12 13:30 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	12/27/12 14:52	MSZ	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	12/27/12 14:52	MSZ	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	12/27/12 14:52	MSZ	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	12/27/12 14:52	MSZ	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	12/27/12 14:52	MSZ	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	12/27/12 14:52	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	12/27/12 14:52	MSZ	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	12/27/12 14:52	MSZ	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	12/27/12 14:52	MSZ	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	12/27/12 14:52	MSZ	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	12/27/12 14:52	MSZ	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	12/27/12 14:52	MSZ	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	12/27/12 14:52	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	12/27/12 14:52	MSZ	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	12/27/12 14:52	MSZ	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	12/27/12 14:52	MSZ	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	12/27/12 14:52	MSZ	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	12/27/12 14:52	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	12/27/12 14:52	MSZ	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	12/27/12 14:52	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	12/27/12 14:52	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.92*	*1*	*1.00*	*92 %*	*44-134*	*2L18024*	*EPA 8081B*	*12/27/12 14:52*	*MSZ*	
Decachlorobiphenyl	*1.1*	*1*	*1.00*	*106 %*	*37-149*	*2L18024*	*EPA 8081B*	*12/27/12 14:52*	*MSZ*	

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Description: MW-16 | **Lab Sample ID:** C215099-08 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/13/12 13:30 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.19	U	ug/L	1	0.19	0.50	2	EPA 8082A	12/27/12 14:52	MSZ	
PCB-1221 [11104-28-2] ^	0.046	U	ug/L	1	0.046	0.50	NE	EPA 8082A	12/27/12 14:52	MSZ	
PCB-1232 [11141-16-5] ^	0.028	U	ug/L	1	0.028	0.50	NE	EPA 8082A	12/27/12 14:52	MSZ	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	12/27/12 14:52	MSZ	
PCB-1254 [11097-69-1] ^	0.015	U	ug/L	1	0.015	0.50	NE	EPA 8082A	12/27/12 14:52	MSZ	
PCB-1260 [11096-82-5] ^	0.13	U	ug/L	1	0.13	0.50	NE	EPA 8082A	12/27/12 14:52	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.4*	*1*	*1.00*	*138 %*	*45-151*	*2L18025*	*EPA 8082A*	*12/27/12 14:52*	*MSZ*	
Decachlorobiphenyl	*1.1*	*1*	*1.00*	*106 %*	*42-159*	*2L18025*	*EPA 8082A*	*12/27/12 14:52*	*MSZ*	

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Description: MW-16
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C215099-08
Sampled: 12/13/12 13:30
Sampled By: Jonathan Pfohl

Received: 12/14/12 08:45
Work Order: C215099

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	4.9	U	ug/L	1	4.9	10	10	EPA 9014	12/19/12 11:20	JCS	

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Description: MW-16
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C215099-08
Sampled: 12/13/12 13:30
Sampled By: Jonathan Pfohl

Received: 12/14/12 08:45
Work Order: C215099

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.23	U	ug/L	1	0.23	0.50	2	EPA 8151A	12/22/12 04:35	RGG	
2,4,5-TP (Silvex) [93-72-1] ^	0.20	U	ug/L	1	0.20	0.50	2	EPA 8151A	12/22/12 04:35	RGG	
2,4-D [94-75-7] ^	0.16	U	ug/L	1	0.16	0.50	2	EPA 8151A	12/22/12 04:35	RGG	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	12/22/12 04:35	RGG	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	12/22/12 04:35	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*1.8*	*1*	*2.00*	*92 %*	*68-139*	*2L18057*	*EPA 8151A*	*12/22/12 04:35*	*RGG*	

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Description: MW-16
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C215099-08
Sampled: 12/13/12 13:30
Sampled By: Jonathan Pfohl

Received: 12/14/12 08:45
Work Order: C215099

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Methane [74-82-8]	**7.91**	D	mg/L	100	0.0430	0.100	NE	RSK-175	12/20/12 16:42	GMB	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: MW-18 | **Lab Sample ID:** C215099-09 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/12/12 09:00 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 19:24	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 19:24	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	12/30/12 19:24	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 19:24	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	12/30/12 19:24	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 19:24	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 19:24	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 19:24	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 19:24	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 19:24	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 19:24	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	12/30/12 19:24	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 19:24	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 19:24	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 19:24	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	12/30/12 19:24	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 19:24	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 19:24	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	12/30/12 19:24	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 19:24	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 19:24	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 19:24	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	12/30/12 19:24	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 19:24	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 19:24	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	12/30/12 19:24	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 19:24	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 19:24	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	12/30/12 19:24	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	12/30/12 19:24	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 19:24	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	12/30/12 19:24	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 19:24	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 19:24	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	12/30/12 19:24	DFM	QV-01
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	12/30/12 19:24	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	12/30/12 19:24	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 19:24	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 19:24	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 19:24	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 19:24	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 19:24	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 19:24	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 19:24	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 19:24	DFM	

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Description: MW-18 | **Lab Sample ID:** C215099-09 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/12/12 09:00 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 19:24	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 19:24	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	12/30/12 19:24	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 19:24	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 19:24	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 19:24	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	12/30/12 19:24	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 19:24	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 19:24	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 19:24	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 19:24	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	12/30/12 19:24	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 19:24	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 19:24	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 19:24	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 19:24	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 19:24	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	12/30/12 19:24	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 19:24	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 19:24	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 19:24	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 19:24	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 19:24	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 19:24	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 19:24	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 19:24	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 19:24	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 19:24	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 19:24	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 19:24	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 19:24	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 19:24	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	12/30/12 19:24	DFM	QV-01
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	12/30/12 19:24	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 19:24	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 19:24	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 19:24	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	12/30/12 19:24	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 19:24	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 19:24	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 19:24	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 19:24	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 19:24	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	12/30/12 19:24	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 19:24	DFM	

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Description: MW-18 | **Lab Sample ID:** C215099-09 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/12/12 09:00 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 19:24	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 19:24	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 19:24	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 19:24	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 19:24	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 19:24	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 19:24	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 19:24	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 19:24	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 19:24	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 19:24	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 19:24	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 19:24	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 19:24	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*76*	*1*	*100*	*76 %*	*10-179*	*2L19027*	*EPA 8270D*	*12/30/12 19:24*	*DFM*	
2-Fluorobiphenyl	*36*	*1*	*50.0*	*71 %*	*10-149*	*2L19027*	*EPA 8270D*	*12/30/12 19:24*	*DFM*	
2-Fluorophenol	*50*	*1*	*100*	*50 %*	*10-110*	*2L19027*	*EPA 8270D*	*12/30/12 19:24*	*DFM*	
Nitrobenzene-d5	*30*	*1*	*50.0*	*61 %*	*10-149*	*2L19027*	*EPA 8270D*	*12/30/12 19:24*	*DFM*	
Phenol-d5	*37*	*1*	*100*	*37 %*	*10-88*	*2L19027*	*EPA 8270D*	*12/30/12 19:24*	*DFM*	
Terphenyl-d14	*43*	*1*	*50.0*	*86 %*	*10-188*	*2L19027*	*EPA 8270D*	*12/30/12 19:24*	*DFM*	

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Description: MW-18 | **Lab Sample ID:** C215099-09 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/12/12 09:00 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	12/27/12 15:05	MSZ	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	12/27/12 15:05	MSZ	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	12/27/12 15:05	MSZ	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	12/27/12 15:05	MSZ	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	12/27/12 15:05	MSZ	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	12/27/12 15:05	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	12/27/12 15:05	MSZ	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	12/27/12 15:05	MSZ	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	12/27/12 15:05	MSZ	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	12/27/12 15:05	MSZ	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	12/27/12 15:05	MSZ	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	12/27/12 15:05	MSZ	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	12/27/12 15:05	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	12/27/12 15:05	MSZ	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	12/27/12 15:05	MSZ	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	12/27/12 15:05	MSZ	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	12/27/12 15:05	MSZ	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	12/27/12 15:05	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	12/27/12 15:05	MSZ	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	12/27/12 15:05	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	12/27/12 15:05	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.0*	*1*	*1.00*	*101 %*	*44-134*	*2L18024*	*EPA 8081B*	*12/27/12 15:05*	*MSZ*	
Decachlorobiphenyl	*0.91*	*1*	*1.00*	*91 %*	*37-149*	*2L18024*	*EPA 8081B*	*12/27/12 15:05*	*MSZ*	

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Description: MW-18 | **Lab Sample ID:** C215099-09 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/12/12 09:00 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.19	U	ug/L	1	0.19	0.50	2	EPA 8082A	12/27/12 15:05	MSZ	
PCB-1221 [11104-28-2] ^	0.046	U	ug/L	1	0.046	0.50	NE	EPA 8082A	12/27/12 15:05	MSZ	
PCB-1232 [11141-16-5] ^	0.028	U	ug/L	1	0.028	0.50	NE	EPA 8082A	12/27/12 15:05	MSZ	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	12/27/12 15:05	MSZ	
PCB-1254 [11097-69-1] ^	0.015	U	ug/L	1	0.015	0.50	NE	EPA 8082A	12/27/12 15:05	MSZ	
PCB-1260 [11096-82-5] ^	0.13	U	ug/L	1	0.13	0.50	NE	EPA 8082A	12/27/12 15:05	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.0*	*1*	*1.00*	*101 %*	*45-151*	*2L18025*	*EPA 8082A*	*12/27/12 15:05*	*MSZ*	
Decachlorobiphenyl	*0.91*	*1*	*1.00*	*91 %*	*42-159*	*2L18025*	*EPA 8082A*	*12/27/12 15:05*	*MSZ*	

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Description:	MW-18	**Lab Sample ID:**	C215099-09	**Received:**	12/14/12 08:45
Matrix:	Ground Water	**Sampled:**	12/12/12 09:00	**Work Order:**	C215099
Project:	Alexander MSWLF	**Sampled By:**	Jonathan Pfohl		

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	**6.6**	J	ug/L	1	4.9	10	10	EPA 9014	12/19/12 11:22	JCS	

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Description: MW-18 | **Lab Sample ID:** C215099-09 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/12/12 09:00 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.23	U	ug/L	1	0.23	0.50	2	EPA 8151A	12/22/12 05:00	RGG	
2,4,5-TP (Silvex) [93-72-1] ^	0.20	U	ug/L	1	0.20	0.50	2	EPA 8151A	12/22/12 05:00	RGG	
2,4-D [94-75-7] ^	0.16	U	ug/L	1	0.16	0.50	2	EPA 8151A	12/22/12 05:00	RGG	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	12/22/12 05:00	RGG	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	12/22/12 05:00	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*2.1*	*1*	*2.00*	*107 %*	*68-139*	*2L18057*	*EPA 8151A*	*12/22/12 05:00*	*RGG*	

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Description: MW-18
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C215099-09
Sampled: 12/12/12 09:00
Sampled By: Jonathan Pfohl

Received: 12/14/12 08:45
Work Order: C215099

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Methane [74-82-8]	**0.000900**	J	mg/L	1	0.000430	0.00100	NE	RSK-175	12/20/12 12:20	GMB	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: MW-24 | **Lab Sample ID:** C215099-10 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/12/12 11:00 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 19:55	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 19:55	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	12/30/12 19:55	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 19:55	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	12/30/12 19:55	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 19:55	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 19:55	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 19:55	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 19:55	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 19:55	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 19:55	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	12/30/12 19:55	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 19:55	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 19:55	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 19:55	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	12/30/12 19:55	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 19:55	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 19:55	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	12/30/12 19:55	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 19:55	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 19:55	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 19:55	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	12/30/12 19:55	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 19:55	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 19:55	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	12/30/12 19:55	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 19:55	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 19:55	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	12/30/12 19:55	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	12/30/12 19:55	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 19:55	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	12/30/12 19:55	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 19:55	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 19:55	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	12/30/12 19:55	DFM	QV-01
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	12/30/12 19:55	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	12/30/12 19:55	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 19:55	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 19:55	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 19:55	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 19:55	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 19:55	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 19:55	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 19:55	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 19:55	DFM	

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Description: MW-24 | **Lab Sample ID:** C215099-10 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/12/12 11:00 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 19:55	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 19:55	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	12/30/12 19:55	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 19:55	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 19:55	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 19:55	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	12/30/12 19:55	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 19:55	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 19:55	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 19:55	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 19:55	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	12/30/12 19:55	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 19:55	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 19:55	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 19:55	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 19:55	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 19:55	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	12/30/12 19:55	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 19:55	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 19:55	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 19:55	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 19:55	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 19:55	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 19:55	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 19:55	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 19:55	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 19:55	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 19:55	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 19:55	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 19:55	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 19:55	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 19:55	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	12/30/12 19:55	DFM	QV-01
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	12/30/12 19:55	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 19:55	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 19:55	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 19:55	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	12/30/12 19:55	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 19:55	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 19:55	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 19:55	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 19:55	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 19:55	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	12/30/12 19:55	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 19:55	DFM	

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Description: MW-24 | **Lab Sample ID:** C215099-10 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/12/12 11:00 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 19:55	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 19:55	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 19:55	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 19:55	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 19:55	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 19:55	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 19:55	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 19:55	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 19:55	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 19:55	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 19:55	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 19:55	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 19:55	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 19:55	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*88*	*1*	*100*	*88 %*	*10-179*	*2L19027*	*EPA 8270D*	*12/30/12 19:55*	*DFM*	
2-Fluorobiphenyl	*42*	*1*	*50.0*	*84 %*	*10-149*	*2L19027*	*EPA 8270D*	*12/30/12 19:55*	*DFM*	
2-Fluorophenol	*61*	*1*	*100*	*61 %*	*10-110*	*2L19027*	*EPA 8270D*	*12/30/12 19:55*	*DFM*	
Nitrobenzene-d5	*37*	*1*	*50.0*	*74 %*	*10-149*	*2L19027*	*EPA 8270D*	*12/30/12 19:55*	*DFM*	
Phenol-d5	*45*	*1*	*100*	*45 %*	*10-88*	*2L19027*	*EPA 8270D*	*12/30/12 19:55*	*DFM*	
Terphenyl-d14	*47*	*1*	*50.0*	*93 %*	*10-188*	*2L19027*	*EPA 8270D*	*12/30/12 19:55*	*DFM*	

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Description: MW-24 | **Lab Sample ID:** C215099-10 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/12/12 11:00 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	12/27/12 15:18	MSZ	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	12/27/12 15:18	MSZ	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	12/27/12 15:18	MSZ	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	12/27/12 15:18	MSZ	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	12/27/12 15:18	MSZ	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	12/27/12 15:18	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	12/27/12 15:18	MSZ	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	12/27/12 15:18	MSZ	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	12/27/12 15:18	MSZ	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	12/27/12 15:18	MSZ	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	12/27/12 15:18	MSZ	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	12/27/12 15:18	MSZ	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	12/27/12 15:18	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	12/27/12 15:18	MSZ	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	12/27/12 15:18	MSZ	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	12/27/12 15:18	MSZ	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	12/27/12 15:18	MSZ	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	12/27/12 15:18	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	12/27/12 15:18	MSZ	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	12/27/12 15:18	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	12/27/12 15:18	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.99*	*1*	*1.00*	*99 %*	*44-134*	*2L18024*	*EPA 8081B*	*12/27/12 15:18*	*MSZ*	
Decachlorobiphenyl	*1.0*	*1*	*1.00*	*100 %*	*37-149*	*2L18024*	*EPA 8081B*	*12/27/12 15:18*	*MSZ*	

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Description: MW-24 | **Lab Sample ID:** C215099-10 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/12/12 11:00 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.19	U	ug/L	1	0.19	0.50	2	EPA 8082A	12/27/12 15:18	MSZ	
PCB-1221 [11104-28-2] ^	0.046	U	ug/L	1	0.046	0.50	NE	EPA 8082A	12/27/12 15:18	MSZ	
PCB-1232 [11141-16-5] ^	0.028	U	ug/L	1	0.028	0.50	NE	EPA 8082A	12/27/12 15:18	MSZ	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	12/27/12 15:18	MSZ	
PCB-1254 [11097-69-1] ^	0.015	U	ug/L	1	0.015	0.50	NE	EPA 8082A	12/27/12 15:18	MSZ	
PCB-1260 [11096-82-5] ^	0.13	U	ug/L	1	0.13	0.50	NE	EPA 8082A	12/27/12 15:18	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.99*	*1*	*1.00*	*99 %*	*45-151*	*2L18025*	*EPA 8082A*	*12/27/12 15:18*	*MSZ*	
Decachlorobiphenyl	*1.0*	*1*	*1.00*	*100 %*	*42-159*	*2L18025*	*EPA 8082A*	*12/27/12 15:18*	*MSZ*	

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Description: MW-24
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C215099-10
Sampled: 12/12/12 11:00
Sampled By: Jonathan Pfohl

Received: 12/14/12 08:45
Work Order: C215099

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	4.9	U	ug/L	1	4.9	10	10	EPA 9014	12/19/12 11:24	JCS	

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Description: MW-24
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C215099-10
Sampled: 12/12/12 11:00
Sampled By: Jonathan Pfohl

Received: 12/14/12 08:45
Work Order: C215099

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.23	U	ug/L	1	0.23	0.50	2	EPA 8151A	12/22/12 05:26	RGG	
2,4,5-TP (Silvex) [93-72-1] ^	0.20	U	ug/L	1	0.20	0.50	2	EPA 8151A	12/22/12 05:26	RGG	
2,4-D [94-75-7] ^	0.16	U	ug/L	1	0.16	0.50	2	EPA 8151A	12/22/12 05:26	RGG	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	12/22/12 05:26	RGG	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	12/22/12 05:26	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*1.8*	*1*	*2.00*	*90 %*	*68-139*	*2L18057*	*EPA 8151A*	*12/22/12 05:26*	*RGG*	

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Description: MW-24
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C215099-10
Sampled: 12/12/12 11:00
Sampled By: Jonathan Pfohl

Received: 12/14/12 08:45
Work Order: C215099

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Methane [74-82-8]	**0.000731**	J	mg/L	1	0.000430	0.00100	NE	RSK-175	12/20/12 12:36	GMB	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: MW-25
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C215099-11
Sampled: 12/13/12 10:40
Sampled By: Jonathan Pfohl

Received: 12/14/12 08:45
Work Order: C215099

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Methane [74-82-8]	**3.45**	D	mg/L	100	0.0430	0.100	NE	RSK-175	12/20/12 16:59	GMB	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: MW-26 | **Lab Sample ID:** C215099-12 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/12/12 13:10 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 20:25	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 20:25	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	12/30/12 20:25	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 20:25	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	12/30/12 20:25	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 20:25	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 20:25	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 20:25	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 20:25	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 20:25	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 20:25	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	12/30/12 20:25	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 20:25	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 20:25	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 20:25	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	12/30/12 20:25	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 20:25	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 20:25	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	12/30/12 20:25	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 20:25	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 20:25	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 20:25	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	12/30/12 20:25	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 20:25	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 20:25	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	12/30/12 20:25	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 20:25	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 20:25	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	12/30/12 20:25	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	12/30/12 20:25	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 20:25	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	12/30/12 20:25	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 20:25	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 20:25	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	12/30/12 20:25	DFM	QV-01
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	12/30/12 20:25	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	12/30/12 20:25	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 20:25	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 20:25	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 20:25	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 20:25	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 20:25	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 20:25	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 20:25	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 20:25	DFM	

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Description: MW-26 | **Lab Sample ID:** C215099-12 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/12/12 13:10 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 20:25	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 20:25	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	12/30/12 20:25	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 20:25	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 20:25	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 20:25	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	12/30/12 20:25	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 20:25	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 20:25	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 20:25	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 20:25	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	12/30/12 20:25	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 20:25	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 20:25	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 20:25	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 20:25	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 20:25	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	12/30/12 20:25	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 20:25	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 20:25	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 20:25	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 20:25	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 20:25	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 20:25	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 20:25	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 20:25	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 20:25	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 20:25	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 20:25	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 20:25	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 20:25	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 20:25	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	12/30/12 20:25	DFM	QV-01
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	12/30/12 20:25	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 20:25	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 20:25	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 20:25	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	12/30/12 20:25	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 20:25	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 20:25	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 20:25	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 20:25	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 20:25	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	12/30/12 20:25	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 20:25	DFM	

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Description: MW-26 | **Lab Sample ID:** C215099-12 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/12/12 13:10 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 20:25	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 20:25	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 20:25	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 20:25	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 20:25	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 20:25	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 20:25	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 20:25	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 20:25	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 20:25	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 20:25	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 20:25	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 20:25	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 20:25	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*100*	*1*	*100*	*103 %*	*10-179*	*2L19027*	*EPA 8270D*	*12/30/12 20:25*	*DFM*	
2-Fluorobiphenyl	*44*	*1*	*50.0*	*88 %*	*10-149*	*2L19027*	*EPA 8270D*	*12/30/12 20:25*	*DFM*	
2-Fluorophenol	*62*	*1*	*100*	*62 %*	*10-110*	*2L19027*	*EPA 8270D*	*12/30/12 20:25*	*DFM*	
Nitrobenzene-d5	*39*	*1*	*50.0*	*77 %*	*10-149*	*2L19027*	*EPA 8270D*	*12/30/12 20:25*	*DFM*	
Phenol-d5	*46*	*1*	*100*	*46 %*	*10-88*	*2L19027*	*EPA 8270D*	*12/30/12 20:25*	*DFM*	
Terphenyl-d14	*49*	*1*	*50.0*	*98 %*	*10-188*	*2L19027*	*EPA 8270D*	*12/30/12 20:25*	*DFM*	

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Description: MW-26 | **Lab Sample ID:** C215099-12 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/12/12 13:10 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	12/27/12 15:31	MSZ	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	12/27/12 15:31	MSZ	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	12/27/12 15:31	MSZ	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	12/27/12 15:31	MSZ	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	12/27/12 15:31	MSZ	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	12/27/12 15:31	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	12/27/12 15:31	MSZ	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	12/27/12 15:31	MSZ	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	12/27/12 15:31	MSZ	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	12/27/12 15:31	MSZ	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	12/27/12 15:31	MSZ	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	12/27/12 15:31	MSZ	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	12/27/12 15:31	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	12/27/12 15:31	MSZ	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	12/27/12 15:31	MSZ	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	12/27/12 15:31	MSZ	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	12/27/12 15:31	MSZ	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	12/27/12 15:31	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	12/27/12 15:31	MSZ	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	12/27/12 15:31	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	12/27/12 15:31	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.2*	*1*	*1.00*	*124 %*	*44-134*	*2L18024*	*EPA 8081B*	*12/27/12 15:31*	*MSZ*	
Decachlorobiphenyl	*1.0*	*1*	*1.00*	*104 %*	*37-149*	*2L18024*	*EPA 8081B*	*12/27/12 15:31*	*MSZ*	

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Description: MW-26
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C215099-12
Sampled: 12/12/12 13:10
Sampled By: Jonathan Pfohl

Received: 12/14/12 08:45
Work Order: C215099

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.19	U	ug/L	1	0.19	0.50	2	EPA 8082A	12/27/12 15:31	MSZ	
PCB-1221 [11104-28-2] ^	0.046	U	ug/L	1	0.046	0.50	NE	EPA 8082A	12/27/12 15:31	MSZ	
PCB-1232 [11141-16-5] ^	0.028	U	ug/L	1	0.028	0.50	NE	EPA 8082A	12/27/12 15:31	MSZ	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	12/27/12 15:31	MSZ	
PCB-1254 [11097-69-1] ^	0.015	U	ug/L	1	0.015	0.50	NE	EPA 8082A	12/27/12 15:31	MSZ	
PCB-1260 [11096-82-5] ^	0.13	U	ug/L	1	0.13	0.50	NE	EPA 8082A	12/27/12 15:31	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.2*	*1*	*1.00*	*124 %*	*45-151*	*2L18025*	*EPA 8082A*	*12/27/12 15:31*	*MSZ*	
Decachlorobiphenyl	*1.0*	*1*	*1.00*	*104 %*	*42-159*	*2L18025*	*EPA 8082A*	*12/27/12 15:31*	*MSZ*	

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Description: MW-26
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C215099-12
Sampled: 12/12/12 13:10
Sampled By: Jonathan Pfohl

Received: 12/14/12 08:45
Work Order: C215099

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	4.9	U	ug/L	1	4.9	10	10	EPA 9014	12/19/12 11:26	JCS	

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Description: MW-26
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C215099-12
Sampled: 12/12/12 13:10
Sampled By: Jonathan Pfohl

Received: 12/14/12 08:45
Work Order: C215099

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.23	U	ug/L	1	0.23	0.50	2	EPA 8151A	12/22/12 05:51	RGG	
2,4,5-TP (Silvex) [93-72-1] ^	0.20	U	ug/L	1	0.20	0.50	2	EPA 8151A	12/22/12 05:51	RGG	
2,4-D [94-75-7] ^	0.16	U	ug/L	1	0.16	0.50	2	EPA 8151A	12/22/12 05:51	RGG	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	12/22/12 05:51	RGG	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	12/22/12 05:51	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*2.1*	*1*	*2.00*	*103 %*	*68-139*	*2L18057*	*EPA 8151A*	*12/22/12 05:51*	*RGG*	

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Description: MW-26
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C215099-12
Sampled: 12/12/12 13:10
Sampled By: Jonathan Pfohl

Received: 12/14/12 08:45
Work Order: C215099

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Methane [74-82-8]	**0.524**	D	mg/L	10	0.00430	0.0100	NE	RSK-175	12/20/12 17:15	GMB	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: MW-27 | **Lab Sample ID:** C215099-13 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/12/12 13:40 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 20:56	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 20:56	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	12/30/12 20:56	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 20:56	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	12/30/12 20:56	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 20:56	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 20:56	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 20:56	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 20:56	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 20:56	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 20:56	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	12/30/12 20:56	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 20:56	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 20:56	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 20:56	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	12/30/12 20:56	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 20:56	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 20:56	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	12/30/12 20:56	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 20:56	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 20:56	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 20:56	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	12/30/12 20:56	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 20:56	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 20:56	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	12/30/12 20:56	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 20:56	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 20:56	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	12/30/12 20:56	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	12/30/12 20:56	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 20:56	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	12/30/12 20:56	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 20:56	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 20:56	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	12/30/12 20:56	DFM	QV-01
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	12/30/12 20:56	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	12/30/12 20:56	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 20:56	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 20:56	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 20:56	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 20:56	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 20:56	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 20:56	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 20:56	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 20:56	DFM	

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Description: MW-27 | **Lab Sample ID:** C215099-13 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/12/12 13:40 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 20:56	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 20:56	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	12/30/12 20:56	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 20:56	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 20:56	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 20:56	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	12/30/12 20:56	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 20:56	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 20:56	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 20:56	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 20:56	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	12/30/12 20:56	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 20:56	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 20:56	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 20:56	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 20:56	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 20:56	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	12/30/12 20:56	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 20:56	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 20:56	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 20:56	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 20:56	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 20:56	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 20:56	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 20:56	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 20:56	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 20:56	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 20:56	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 20:56	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 20:56	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 20:56	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 20:56	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	12/30/12 20:56	DFM	QV-01
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	12/30/12 20:56	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 20:56	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 20:56	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 20:56	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	12/30/12 20:56	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 20:56	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 20:56	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 20:56	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 20:56	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 20:56	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	12/30/12 20:56	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 20:56	DFM	

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Description: MW-27 | **Lab Sample ID:** C215099-13 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/12/12 13:40 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 20:56	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 20:56	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 20:56	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 20:56	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 20:56	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 20:56	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 20:56	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 20:56	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 20:56	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 20:56	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 20:56	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 20:56	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 20:56	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 20:56	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*90*	*1*	*100*	*90 %*	*10-179*	*2L19027*	*EPA 8270D*	*12/30/12 20:56*	*DFM*	
2-Fluorobiphenyl	*43*	*1*	*50.0*	*86 %*	*10-149*	*2L19027*	*EPA 8270D*	*12/30/12 20:56*	*DFM*	
2-Fluorophenol	*62*	*1*	*100*	*62 %*	*10-110*	*2L19027*	*EPA 8270D*	*12/30/12 20:56*	*DFM*	
Nitrobenzene-d5	*37*	*1*	*50.0*	*75 %*	*10-149*	*2L19027*	*EPA 8270D*	*12/30/12 20:56*	*DFM*	
Phenol-d5	*46*	*1*	*100*	*46 %*	*10-88*	*2L19027*	*EPA 8270D*	*12/30/12 20:56*	*DFM*	
Terphenyl-d14	*49*	*1*	*50.0*	*98 %*	*10-188*	*2L19027*	*EPA 8270D*	*12/30/12 20:56*	*DFM*	

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Description: MW-27 | **Lab Sample ID:** C215099-13 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/12/12 13:40 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	12/27/12 15:45	MSZ	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	12/27/12 15:45	MSZ	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	12/27/12 15:45	MSZ	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	12/27/12 15:45	MSZ	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	12/27/12 15:45	MSZ	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	12/27/12 15:45	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	12/27/12 15:45	MSZ	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	12/27/12 15:45	MSZ	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	12/27/12 15:45	MSZ	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	12/27/12 15:45	MSZ	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	12/27/12 15:45	MSZ	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	12/27/12 15:45	MSZ	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	12/27/12 15:45	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	12/27/12 15:45	MSZ	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	12/27/12 15:45	MSZ	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	12/27/12 15:45	MSZ	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	12/27/12 15:45	MSZ	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	12/27/12 15:45	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	12/27/12 15:45	MSZ	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	12/27/12 15:45	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	12/27/12 15:45	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.1*	*1*	*1.00*	*114 %*	*44-134*	*2L18024*	*EPA 8081B*	*12/27/12 15:45*	*MSZ*	
Decachlorobiphenyl	*1.0*	*1*	*1.00*	*104 %*	*37-149*	*2L18024*	*EPA 8081B*	*12/27/12 15:45*	*MSZ*	

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Description: MW-27 | **Lab Sample ID:** C215099-13 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/12/12 13:40 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.19	U	ug/L	1	0.19	0.50	2	EPA 8082A	12/27/12 15:45	MSZ	
PCB-1221 [11104-28-2] ^	0.046	U	ug/L	1	0.046	0.50	NE	EPA 8082A	12/27/12 15:45	MSZ	
PCB-1232 [11141-16-5] ^	0.028	U	ug/L	1	0.028	0.50	NE	EPA 8082A	12/27/12 15:45	MSZ	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	12/27/12 15:45	MSZ	
PCB-1254 [11097-69-1] ^	0.015	U	ug/L	1	0.015	0.50	NE	EPA 8082A	12/27/12 15:45	MSZ	
PCB-1260 [11096-82-5] ^	0.13	U	ug/L	1	0.13	0.50	NE	EPA 8082A	12/27/12 15:45	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.1*	*1*	*1.00*	*114 %*	*45-151*	*2L18025*	*EPA 8082A*	*12/27/12 15:45*	*MSZ*	
Decachlorobiphenyl	*1.0*	*1*	*1.00*	*104 %*	*42-159*	*2L18025*	*EPA 8082A*	*12/27/12 15:45*	*MSZ*	

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Description: MW-27
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C215099-13
Sampled: 12/12/12 13:40
Sampled By: Jonathan Pfohl

Received: 12/14/12 08:45
Work Order: C215099

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	4.9	U	ug/L	1	4.9	10	10	EPA 9014	12/19/12 11:28	JCS	

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Description: MW-27
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C215099-13
Sampled: 12/12/12 13:40
Sampled By: Jonathan Pfohl

Received: 12/14/12 08:45
Work Order: C215099

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.23	U	ug/L	1	0.23	0.50	2	EPA 8151A	12/22/12 06:16	RGG	
2,4,5-TP (Silvex) [93-72-1] ^	0.20	U	ug/L	1	0.20	0.50	2	EPA 8151A	12/22/12 06:16	RGG	
2,4-D [94-75-7] ^	0.16	U	ug/L	1	0.16	0.50	2	EPA 8151A	12/22/12 06:16	RGG	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	12/22/12 06:16	RGG	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	12/22/12 06:16	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*1.9*	*1*	*2.00*	*93 %*	*68-139*	*2L18057*	*EPA 8151A*	*12/22/12 06:16*	*RGG*	

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Description: MW-27
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C215099-13
Sampled: 12/12/12 13:40
Sampled By: Jonathan Pfohl

Received: 12/14/12 08:45
Work Order: C215099

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Methane [74-82-8]	**0.00153**		mg/L	1	0.000430	0.00100	NE	RSK-175	12/20/12 13:24	GMB	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: MW-31 | **Lab Sample ID:** C215099-14 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/12/12 14:30 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 21:27	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 21:27	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	12/30/12 21:27	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 21:27	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	12/30/12 21:27	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 21:27	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 21:27	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 21:27	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 21:27	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 21:27	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 21:27	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	12/30/12 21:27	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 21:27	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 21:27	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 21:27	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	12/30/12 21:27	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 21:27	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 21:27	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	12/30/12 21:27	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 21:27	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 21:27	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 21:27	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	12/30/12 21:27	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 21:27	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 21:27	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	12/30/12 21:27	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 21:27	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 21:27	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	12/30/12 21:27	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	12/30/12 21:27	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 21:27	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	12/30/12 21:27	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 21:27	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 21:27	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	12/30/12 21:27	DFM	QV-01
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	12/30/12 21:27	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	12/30/12 21:27	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 21:27	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 21:27	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 21:27	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 21:27	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 21:27	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 21:27	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 21:27	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 21:27	DFM	

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Description: MW-31 | **Lab Sample ID:** C215099-14 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/12/12 14:30 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 21:27	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 21:27	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	12/30/12 21:27	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 21:27	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 21:27	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 21:27	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	12/30/12 21:27	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 21:27	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 21:27	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 21:27	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 21:27	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	12/30/12 21:27	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 21:27	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 21:27	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 21:27	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 21:27	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 21:27	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	12/30/12 21:27	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 21:27	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 21:27	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 21:27	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 21:27	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 21:27	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 21:27	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 21:27	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 21:27	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 21:27	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 21:27	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 21:27	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 21:27	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 21:27	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 21:27	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	12/30/12 21:27	DFM	QV-01
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	12/30/12 21:27	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 21:27	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 21:27	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 21:27	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	12/30/12 21:27	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 21:27	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 21:27	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 21:27	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 21:27	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 21:27	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	12/30/12 21:27	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 21:27	DFM	

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Description: MW-31 | **Lab Sample ID:** C215099-14 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/12/12 14:30 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 21:27	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 21:27	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 21:27	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 21:27	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 21:27	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 21:27	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 21:27	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 21:27	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 21:27	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 21:27	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 21:27	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 21:27	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 21:27	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 21:27	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*88*	*1*	*100*	*88 %*	*10-179*	*2L19027*	*EPA 8270D*	*12/30/12 21:27*	*DFM*	
2-Fluorobiphenyl	*44*	*1*	*50.0*	*87 %*	*10-149*	*2L19027*	*EPA 8270D*	*12/30/12 21:27*	*DFM*	
2-Fluorophenol	*65*	*1*	*100*	*65 %*	*10-110*	*2L19027*	*EPA 8270D*	*12/30/12 21:27*	*DFM*	
Nitrobenzene-d5	*39*	*1*	*50.0*	*79 %*	*10-149*	*2L19027*	*EPA 8270D*	*12/30/12 21:27*	*DFM*	
Phenol-d5	*48*	*1*	*100*	*48 %*	*10-88*	*2L19027*	*EPA 8270D*	*12/30/12 21:27*	*DFM*	
Terphenyl-d14	*48*	*1*	*50.0*	*96 %*	*10-188*	*2L19027*	*EPA 8270D*	*12/30/12 21:27*	*DFM*	

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Description: MW-31 | **Lab Sample ID:** C215099-14 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/12/12 14:30 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	12/27/12 15:58	MSZ	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	12/27/12 15:58	MSZ	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	12/27/12 15:58	MSZ	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	12/27/12 15:58	MSZ	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	12/27/12 15:58	MSZ	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	12/27/12 15:58	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	12/27/12 15:58	MSZ	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	12/27/12 15:58	MSZ	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	12/27/12 15:58	MSZ	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	12/27/12 15:58	MSZ	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	12/27/12 15:58	MSZ	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	12/27/12 15:58	MSZ	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	12/27/12 15:58	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	12/27/12 15:58	MSZ	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	12/27/12 15:58	MSZ	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	12/27/12 15:58	MSZ	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	12/27/12 15:58	MSZ	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	12/27/12 15:58	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	12/27/12 15:58	MSZ	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	12/27/12 15:58	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	12/27/12 15:58	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.96*	*1*	*1.00*	*96 %*	*44-134*	*2L18024*	*EPA 8081B*	*12/27/12 15:58*	*MSZ*	
Decachlorobiphenyl	*0.97*	*1*	*1.00*	*97 %*	*37-149*	*2L18024*	*EPA 8081B*	*12/27/12 15:58*	*MSZ*	

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Description: MW-31 | **Lab Sample ID:** C215099-14 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/12/12 14:30 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.19	U	ug/L	1	0.19	0.50	2	EPA 8082A	12/27/12 15:58	MSZ	
PCB-1221 [11104-28-2] ^	0.046	U	ug/L	1	0.046	0.50	NE	EPA 8082A	12/27/12 15:58	MSZ	
PCB-1232 [11141-16-5] ^	0.028	U	ug/L	1	0.028	0.50	NE	EPA 8082A	12/27/12 15:58	MSZ	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	12/27/12 15:58	MSZ	
PCB-1254 [11097-69-1] ^	0.015	U	ug/L	1	0.015	0.50	NE	EPA 8082A	12/27/12 15:58	MSZ	
PCB-1260 [11096-82-5] ^	0.13	U	ug/L	1	0.13	0.50	NE	EPA 8082A	12/27/12 15:58	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.96*	*1*	*1.00*	*96 %*	*45-151*	*2L18025*	*EPA 8082A*	*12/27/12 15:58*	*MSZ*	
Decachlorobiphenyl	*0.97*	*1*	*1.00*	*97 %*	*42-159*	*2L18025*	*EPA 8082A*	*12/27/12 15:58*	*MSZ*	

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Description: MW-31
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C215099-14
Sampled: 12/12/12 14:30
Sampled By: Jonathan Pfohl

Received: 12/14/12 08:45
Work Order: C215099

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	4.9	U	ug/L	1	4.9	10	10	EPA 9014	12/19/12 11:30	JCS	

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Description: MW-31
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C215099-14
Sampled: 12/12/12 14:30
Sampled By: Jonathan Pfohl

Received: 12/14/12 08:45
Work Order: C215099

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.23	U	ug/L	1	0.23	0.50	2	EPA 8151A	12/22/12 06:42	RGG	
2,4,5-TP (Silvex) [93-72-1] ^	0.20	U	ug/L	1	0.20	0.50	2	EPA 8151A	12/22/12 06:42	RGG	
2,4-D [94-75-7] ^	0.16	U	ug/L	1	0.16	0.50	2	EPA 8151A	12/22/12 06:42	RGG	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	12/22/12 06:42	RGG	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	12/22/12 06:42	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*2.7*	*1*	*2.00*	*135 %*	*68-139*	*2L18057*	*EPA 8151A*	*12/22/12 06:42*	*RGG*	

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Description: MW-31
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C215099-14
Sampled: 12/12/12 14:30
Sampled By: Jonathan Pfohl

Received: 12/14/12 08:45
Work Order: C215099

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Methane [74-82-8]	**0.115**	D	mg/L	10	0.00430	0.0100	NE	RSK-175	12/20/12 17:31	GMB	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: MW-34 | **Lab Sample ID:** C215099-15 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/12/12 10:10 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 21:57	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 21:57	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	12/30/12 21:57	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 21:57	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	12/30/12 21:57	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 21:57	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 21:57	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 21:57	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 21:57	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 21:57	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 21:57	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	12/30/12 21:57	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 21:57	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 21:57	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 21:57	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	12/30/12 21:57	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 21:57	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 21:57	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	12/30/12 21:57	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 21:57	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 21:57	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 21:57	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	12/30/12 21:57	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 21:57	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 21:57	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	12/30/12 21:57	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 21:57	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 21:57	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	12/30/12 21:57	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	12/30/12 21:57	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 21:57	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	12/30/12 21:57	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 21:57	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 21:57	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	12/30/12 21:57	DFM	QV-01
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	12/30/12 21:57	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	12/30/12 21:57	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 21:57	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 21:57	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 21:57	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 21:57	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 21:57	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 21:57	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 21:57	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 21:57	DFM	

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Description: MW-34 | **Lab Sample ID:** C215099-15 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/12/12 10:10 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 21:57	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 21:57	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	12/30/12 21:57	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 21:57	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 21:57	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 21:57	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	12/30/12 21:57	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 21:57	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 21:57	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 21:57	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 21:57	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	12/30/12 21:57	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 21:57	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 21:57	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 21:57	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 21:57	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 21:57	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	12/30/12 21:57	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 21:57	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 21:57	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 21:57	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 21:57	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 21:57	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 21:57	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 21:57	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 21:57	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 21:57	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 21:57	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 21:57	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 21:57	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 21:57	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 21:57	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	12/30/12 21:57	DFM	QV-01
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	12/30/12 21:57	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 21:57	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 21:57	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 21:57	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	12/30/12 21:57	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 21:57	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 21:57	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 21:57	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 21:57	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 21:57	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	12/30/12 21:57	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 21:57	DFM	

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Description: MW-34 | **Lab Sample ID:** C215099-15 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/12/12 10:10 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 21:57	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 21:57	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 21:57	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 21:57	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 21:57	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 21:57	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 21:57	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 21:57	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 21:57	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 21:57	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 21:57	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 21:57	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 21:57	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 21:57	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*76*	*1*	*100*	*76 %*	*10-179*	*2L19027*	*EPA 8270D*	*12/30/12 21:57*	*DFM*	
2-Fluorobiphenyl	*39*	*1*	*50.0*	*77 %*	*10-149*	*2L19027*	*EPA 8270D*	*12/30/12 21:57*	*DFM*	
2-Fluorophenol	*59*	*1*	*100*	*59 %*	*10-110*	*2L19027*	*EPA 8270D*	*12/30/12 21:57*	*DFM*	
Nitrobenzene-d5	*34*	*1*	*50.0*	*67 %*	*10-149*	*2L19027*	*EPA 8270D*	*12/30/12 21:57*	*DFM*	
Phenol-d5	*43*	*1*	*100*	*43 %*	*10-88*	*2L19027*	*EPA 8270D*	*12/30/12 21:57*	*DFM*	
Terphenyl-d14	*44*	*1*	*50.0*	*89 %*	*10-188*	*2L19027*	*EPA 8270D*	*12/30/12 21:57*	*DFM*	

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Description: MW-34 | **Lab Sample ID:** C215099-15 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/12/12 10:10 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	12/27/12 16:11	MSZ	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	12/27/12 16:11	MSZ	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	12/27/12 16:11	MSZ	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	12/27/12 16:11	MSZ	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	12/27/12 16:11	MSZ	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	12/27/12 16:11	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	12/27/12 16:11	MSZ	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	12/27/12 16:11	MSZ	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	12/27/12 16:11	MSZ	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	12/27/12 16:11	MSZ	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	12/27/12 16:11	MSZ	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	12/27/12 16:11	MSZ	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	12/27/12 16:11	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	12/27/12 16:11	MSZ	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	12/27/12 16:11	MSZ	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	12/27/12 16:11	MSZ	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	12/27/12 16:11	MSZ	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	12/27/12 16:11	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	12/27/12 16:11	MSZ	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	12/27/12 16:11	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	12/27/12 16:11	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.79*	*1*	*1.00*	*79 %*	*44-134*	*2L18024*	*EPA 8081B*	*12/27/12 16:11*	*MSZ*	
Decachlorobiphenyl	*0.80*	*1*	*1.00*	*80 %*	*37-149*	*2L18024*	*EPA 8081B*	*12/27/12 16:11*	*MSZ*	

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Description: MW-34 | **Lab Sample ID:** C215099-15 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/12/12 10:10 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.19	U	ug/L	1	0.19	0.50	2	EPA 8082A	12/27/12 16:11	MSZ	
PCB-1221 [11104-28-2] ^	0.046	U	ug/L	1	0.046	0.50	NE	EPA 8082A	12/27/12 16:11	MSZ	
PCB-1232 [11141-16-5] ^	0.028	U	ug/L	1	0.028	0.50	NE	EPA 8082A	12/27/12 16:11	MSZ	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	12/27/12 16:11	MSZ	
PCB-1254 [11097-69-1] ^	0.015	U	ug/L	1	0.015	0.50	NE	EPA 8082A	12/27/12 16:11	MSZ	
PCB-1260 [11096-82-5] ^	0.13	U	ug/L	1	0.13	0.50	NE	EPA 8082A	12/27/12 16:11	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.79*	*1*	*1.00*	*79 %*	*45-151*	*2L18025*	*EPA 8082A*	*12/27/12 16:11*	*MSZ*	
Decachlorobiphenyl	*0.80*	*1*	*1.00*	*80 %*	*42-159*	*2L18025*	*EPA 8082A*	*12/27/12 16:11*	*MSZ*	

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Description: MW-34
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C215099-15
Sampled: 12/12/12 10:10
Sampled By: Jonathan Pfohl

Received: 12/14/12 08:45
Work Order: C215099

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	4.9	U	ug/L	1	4.9	10	10	EPA 9014	12/19/12 11:31	JCS	

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Description: MW-34
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C215099-15
Sampled: 12/12/12 10:10
Sampled By: Jonathan Pfohl

Received: 12/14/12 08:45
Work Order: C215099

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.23	U	ug/L	1	0.23	0.50	2	EPA 8151A	12/22/12 07:07	RGG	
2,4,5-TP (Silvex) [93-72-1] ^	0.20	U	ug/L	1	0.20	0.50	2	EPA 8151A	12/22/12 07:07	RGG	
2,4-D [94-75-7] ^	0.16	U	ug/L	1	0.16	0.50	2	EPA 8151A	12/22/12 07:07	RGG	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	12/22/12 07:07	RGG	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	12/22/12 07:07	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*1.8*	*1*	*2.00*	*88 %*	*68-139*	*2L18057*	*EPA 8151A*	*12/22/12 07:07*	*RGG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: MW-33 | **Lab Sample ID:** C215099-16 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/12/12 09:30 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 22:28	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 22:28	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	12/30/12 22:28	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 22:28	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	12/30/12 22:28	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 22:28	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 22:28	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 22:28	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 22:28	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 22:28	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 22:28	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	12/30/12 22:28	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 22:28	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 22:28	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 22:28	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	12/30/12 22:28	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 22:28	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 22:28	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	12/30/12 22:28	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 22:28	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 22:28	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 22:28	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	12/30/12 22:28	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 22:28	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 22:28	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	12/30/12 22:28	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 22:28	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 22:28	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	12/30/12 22:28	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	12/30/12 22:28	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 22:28	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	12/30/12 22:28	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 22:28	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 22:28	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	12/30/12 22:28	DFM	QV-01
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	12/30/12 22:28	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	12/30/12 22:28	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 22:28	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 22:28	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 22:28	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 22:28	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 22:28	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 22:28	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 22:28	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 22:28	DFM	

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Description: MW-33 | **Lab Sample ID:** C215099-16 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/12/12 09:30 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 22:28	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 22:28	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	12/30/12 22:28	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 22:28	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 22:28	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 22:28	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	12/30/12 22:28	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 22:28	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 22:28	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 22:28	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 22:28	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	12/30/12 22:28	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 22:28	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 22:28	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 22:28	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 22:28	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 22:28	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	12/30/12 22:28	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 22:28	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 22:28	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 22:28	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 22:28	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 22:28	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 22:28	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 22:28	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 22:28	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 22:28	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 22:28	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 22:28	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 22:28	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 22:28	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 22:28	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	12/30/12 22:28	DFM	QV-01
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	12/30/12 22:28	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 22:28	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 22:28	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 22:28	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	12/30/12 22:28	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 22:28	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 22:28	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 22:28	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 22:28	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 22:28	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	12/30/12 22:28	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 22:28	DFM	

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Description: MW-33 | **Lab Sample ID:** C215099-16 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/12/12 09:30 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 22:28	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 22:28	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 22:28	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 22:28	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 22:28	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 22:28	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 22:28	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 22:28	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 22:28	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 22:28	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 22:28	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 22:28	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 22:28	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 22:28	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*75*	*1*	*100*	*75 %*	*10-179*	*2L19027*	*EPA 8270D*	*12/30/12 22:28*	*DFM*	
2-Fluorobiphenyl	*37*	*1*	*50.0*	*74 %*	*10-149*	*2L19027*	*EPA 8270D*	*12/30/12 22:28*	*DFM*	
2-Fluorophenol	*55*	*1*	*100*	*55 %*	*10-110*	*2L19027*	*EPA 8270D*	*12/30/12 22:28*	*DFM*	
Nitrobenzene-d5	*31*	*1*	*50.0*	*62 %*	*10-149*	*2L19027*	*EPA 8270D*	*12/30/12 22:28*	*DFM*	
Phenol-d5	*42*	*1*	*100*	*42 %*	*10-88*	*2L19027*	*EPA 8270D*	*12/30/12 22:28*	*DFM*	
Terphenyl-d14	*46*	*1*	*50.0*	*91 %*	*10-188*	*2L19027*	*EPA 8270D*	*12/30/12 22:28*	*DFM*	

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Description: MW-33 | **Lab Sample ID:** C215099-16 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/12/12 09:30 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	12/27/12 16:24	MSZ	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	12/27/12 16:24	MSZ	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	12/27/12 16:24	MSZ	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	12/27/12 16:24	MSZ	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	12/27/12 16:24	MSZ	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	12/27/12 16:24	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	12/27/12 16:24	MSZ	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	12/27/12 16:24	MSZ	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	12/27/12 16:24	MSZ	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	12/27/12 16:24	MSZ	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	12/27/12 16:24	MSZ	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	12/27/12 16:24	MSZ	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	12/27/12 16:24	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	12/27/12 16:24	MSZ	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	12/27/12 16:24	MSZ	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	12/27/12 16:24	MSZ	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	12/27/12 16:24	MSZ	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	12/27/12 16:24	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	12/27/12 16:24	MSZ	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	12/27/12 16:24	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	12/27/12 16:24	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.88*	*1*	*1.00*	*88 %*	*44-134*	*2L18024*	*EPA 8081B*	*12/27/12 16:24*	*MSZ*	
Decachlorobiphenyl	*0.86*	*1*	*1.00*	*86 %*	*37-149*	*2L18024*	*EPA 8081B*	*12/27/12 16:24*	*MSZ*	

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Description: MW-33 | **Lab Sample ID:** C215099-16 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/12/12 09:30 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.19	U	ug/L	1	0.19	0.50	2	EPA 8082A	12/27/12 16:24	MSZ	
PCB-1221 [11104-28-2] ^	0.046	U	ug/L	1	0.046	0.50	NE	EPA 8082A	12/27/12 16:24	MSZ	
PCB-1232 [11141-16-5] ^	0.028	U	ug/L	1	0.028	0.50	NE	EPA 8082A	12/27/12 16:24	MSZ	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	12/27/12 16:24	MSZ	
PCB-1254 [11097-69-1] ^	0.015	U	ug/L	1	0.015	0.50	NE	EPA 8082A	12/27/12 16:24	MSZ	
PCB-1260 [11096-82-5] ^	0.13	U	ug/L	1	0.13	0.50	NE	EPA 8082A	12/27/12 16:24	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.88*	*1*	*1.00*	*88 %*	*45-151*	*2L18025*	*EPA 8082A*	*12/27/12 16:24*	*MSZ*	
Decachlorobiphenyl	*0.86*	*1*	*1.00*	*86 %*	*42-159*	*2L18025*	*EPA 8082A*	*12/27/12 16:24*	*MSZ*	

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Description:	MW-33	**Lab Sample ID:**	C215099-16	**Received:**	12/14/12 08:45
Matrix:	Ground Water	**Sampled:**	12/12/12 09:30	**Work Order:**	C215099
Project:	Alexander MSWLF	**Sampled By:**	Jonathan Pfohl		

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	4.9	U	ug/L	1	4.9	10	10	EPA 9014	12/19/12 11:33	JCS	

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Description: MW-33
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C215099-16
Sampled: 12/12/12 09:30
Sampled By: Jonathan Pfohl

Received: 12/14/12 08:45
Work Order: C215099

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.23	U	ug/L	1	0.23	0.50	2	EPA 8151A	12/22/12 07:33	RGG	
2,4,5-TP (Silvex) [93-72-1] ^	0.20	U	ug/L	1	0.20	0.50	2	EPA 8151A	12/22/12 07:33	RGG	
2,4-D [94-75-7] ^	0.16	U	ug/L	1	0.16	0.50	2	EPA 8151A	12/22/12 07:33	RGG	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	12/22/12 07:33	RGG	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	12/22/12 07:33	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*2.0*	*1*	*2.00*	*98 %*	*68-139*	*2L18057*	*EPA 8151A*	*12/22/12 07:33*	*RGG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: MW-1 | **Lab Sample ID:** C215099-17 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/13/12 15:00 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 22:59	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 22:59	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	12/30/12 22:59	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 22:59	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	12/30/12 22:59	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 22:59	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 22:59	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 22:59	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 22:59	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 22:59	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 22:59	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	12/30/12 22:59	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 22:59	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 22:59	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 22:59	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	12/30/12 22:59	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 22:59	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 22:59	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	12/30/12 22:59	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 22:59	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 22:59	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 22:59	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	12/30/12 22:59	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 22:59	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 22:59	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	12/30/12 22:59	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 22:59	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 22:59	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	12/30/12 22:59	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	12/30/12 22:59	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 22:59	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	12/30/12 22:59	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 22:59	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 22:59	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	12/30/12 22:59	DFM	QV-01
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	12/30/12 22:59	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	12/30/12 22:59	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 22:59	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 22:59	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 22:59	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 22:59	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 22:59	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 22:59	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 22:59	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 22:59	DFM	

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Description: MW-1 | **Lab Sample ID:** C215099-17 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/13/12 15:00 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 22:59	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 22:59	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	12/30/12 22:59	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 22:59	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 22:59	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 22:59	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	12/30/12 22:59	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 22:59	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 22:59	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 22:59	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 22:59	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	12/30/12 22:59	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 22:59	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 22:59	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 22:59	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 22:59	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 22:59	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	12/30/12 22:59	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 22:59	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 22:59	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 22:59	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 22:59	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 22:59	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 22:59	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 22:59	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 22:59	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 22:59	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 22:59	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 22:59	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 22:59	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 22:59	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 22:59	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	12/30/12 22:59	DFM	QV-01
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	12/30/12 22:59	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 22:59	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 22:59	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 22:59	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	12/30/12 22:59	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 22:59	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 22:59	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 22:59	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 22:59	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 22:59	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	12/30/12 22:59	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 22:59	DFM	

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Description: MW-1 | **Lab Sample ID:** C215099-17 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/13/12 15:00 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 22:59	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 22:59	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 22:59	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 22:59	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 22:59	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 22:59	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 22:59	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 22:59	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 22:59	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 22:59	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 22:59	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 22:59	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 22:59	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 22:59	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*95*	*1*	*100*	*95 %*	*10-179*	*2L19027*	*EPA 8270D*	*12/30/12 22:59*	*DFM*	
2-Fluorobiphenyl	*41*	*1*	*50.0*	*82 %*	*10-149*	*2L19027*	*EPA 8270D*	*12/30/12 22:59*	*DFM*	
2-Fluorophenol	*60*	*1*	*100*	*60 %*	*10-110*	*2L19027*	*EPA 8270D*	*12/30/12 22:59*	*DFM*	
Nitrobenzene-d5	*37*	*1*	*50.0*	*74 %*	*10-149*	*2L19027*	*EPA 8270D*	*12/30/12 22:59*	*DFM*	
Phenol-d5	*45*	*1*	*100*	*45 %*	*10-88*	*2L19027*	*EPA 8270D*	*12/30/12 22:59*	*DFM*	
Terphenyl-d14	*53*	*1*	*50.0*	*106 %*	*10-188*	*2L19027*	*EPA 8270D*	*12/30/12 22:59*	*DFM*	

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Description: MW-1 | **Lab Sample ID:** C215099-17 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/13/12 15:00 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	12/27/12 16:38	MSZ	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	12/27/12 16:38	MSZ	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	12/27/12 16:38	MSZ	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	12/27/12 16:38	MSZ	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	12/27/12 16:38	MSZ	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	12/27/12 16:38	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	12/27/12 16:38	MSZ	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	12/27/12 16:38	MSZ	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	12/27/12 16:38	MSZ	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	12/27/12 16:38	MSZ	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	12/27/12 16:38	MSZ	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	12/27/12 16:38	MSZ	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	12/27/12 16:38	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	12/27/12 16:38	MSZ	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	12/27/12 16:38	MSZ	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	12/27/12 16:38	MSZ	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	12/27/12 16:38	MSZ	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	12/27/12 16:38	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	12/27/12 16:38	MSZ	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	12/27/12 16:38	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	12/27/12 16:38	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.92*	*1*	*1.00*	*92 %*	*44-134*	*2L18024*	*EPA 8081B*	*12/27/12 16:38*	*MSZ*	
Decachlorobiphenyl	*0.19*	*1*	*1.00*	*19 %*	*37-149*	*2L18024*	*EPA 8081B*	*12/27/12 16:38*	*MSZ*	*QS-03*

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Description: MW-1 | **Lab Sample ID:** C215099-17 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/13/12 15:00 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.19	U	ug/L	1	0.19	0.50	2	EPA 8082A	12/27/12 16:38	MSZ	
PCB-1221 [11104-28-2] ^	0.046	U	ug/L	1	0.046	0.50	NE	EPA 8082A	12/27/12 16:38	MSZ	
PCB-1232 [11141-16-5] ^	0.028	U	ug/L	1	0.028	0.50	NE	EPA 8082A	12/27/12 16:38	MSZ	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	12/27/12 16:38	MSZ	
PCB-1254 [11097-69-1] ^	0.015	U	ug/L	1	0.015	0.50	NE	EPA 8082A	12/27/12 16:38	MSZ	
PCB-1260 [11096-82-5] ^	0.13	U	ug/L	1	0.13	0.50	NE	EPA 8082A	12/27/12 16:38	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.92*	*1*	*1.00*	*92 %*	*45-151*	*2L18025*	*EPA 8082A*	*12/27/12 16:38*	*MSZ*	
Decachlorobiphenyl	*0.19*	*1*	*1.00*	*19 %*	*42-159*	*2L18025*	*EPA 8082A*	*12/27/12 16:38*	*MSZ*	*QS-03*

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Description: MW-1
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C215099-17
Sampled: 12/13/12 15:00
Sampled By: Jonathan Pfohl

Received: 12/14/12 08:45
Work Order: C215099

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	4.9	U	ug/L	1	4.9	10	10	EPA 9014	12/19/12 19:03	AJB	

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Description: MW-1 | **Lab Sample ID:** C215099-17 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/13/12 15:00 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.23	U	ug/L	1	0.23	0.50	2	EPA 8151A	12/22/12 07:58	RGG	
2,4,5-TP (Silvex) [93-72-1] ^	0.20	U	ug/L	1	0.20	0.50	2	EPA 8151A	12/22/12 07:58	RGG	
2,4-D [94-75-7] ^	0.16	U	ug/L	1	0.16	0.50	2	EPA 8151A	12/22/12 07:58	RGG	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	12/22/12 07:58	RGG	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	12/22/12 07:58	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*2.1*	*1*	*2.00*	*105 %*	*68-139*	*2L18057*	*EPA 8151A*	*12/22/12 07:58*	*RGG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: MW-1B | **Lab Sample ID:** C215099-18 | **Received:** 12/14/12 08:45
Matrix: Ground Water | **Sampled:** 12/13/12 14:20 | **Work Order:** C215099
Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 23:29	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 23:29	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	12/30/12 23:29	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 23:29	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	12/30/12 23:29	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 23:29	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 23:29	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 23:29	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 23:29	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 23:29	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 23:29	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	12/30/12 23:29	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 23:29	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 23:29	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 23:29	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	12/30/12 23:29	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 23:29	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 23:29	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	12/30/12 23:29	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 23:29	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 23:29	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	12/30/12 23:29	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	12/30/12 23:29	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 23:29	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 23:29	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	12/30/12 23:29	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 23:29	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 23:29	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	12/30/12 23:29	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	12/30/12 23:29	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 23:29	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	12/30/12 23:29	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 23:29	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 23:29	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	12/30/12 23:29	DFM	QV-01
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	12/30/12 23:29	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	12/30/12 23:29	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 23:29	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 23:29	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 23:29	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 23:29	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	12/30/12 23:29	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 23:29	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 23:29	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 23:29	DFM	

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Description: MW-1B | **Lab Sample ID:** C215099-18 | **Received:** 12/14/12 08:45

Matrix: Ground Water | **Sampled:** 12/13/12 14:20 | **Work Order:** C215099

Project: Alexander MSWLF | **Sampled By:** Jonathan Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	12/30/12 23:29	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 23:29	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	12/30/12 23:29	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 23:29	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 23:29	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 23:29	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	12/30/12 23:29	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 23:29	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 23:29	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	12/30/12 23:29	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 23:29	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	12/30/12 23:29	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 23:29	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 23:29	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 23:29	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 23:29	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 23:29	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	12/30/12 23:29	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 23:29	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	12/30/12 23:29	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 23:29	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 23:29	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 23:29	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 23:29	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 23:29	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 23:29	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 23:29	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 23:29	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	12/30/12 23:29	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 23:29	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 23:29	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 23:29	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	12/30/12 23:29	DFM	QV-01
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	12/30/12 23:29	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 23:29	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	12/30/12 23:29	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 23:29	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	12/30/12 23:29	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 23:29	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 23:29	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	12/30/12 23:29	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 23:29	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	12/30/12 23:29	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	12/30/12 23:29	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 23:29	DFM	

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Description: MW-1B
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C215099-18
Sampled: 12/13/12 14:20
Sampled By: Jonathan Pfohl

Received: 12/14/12 08:45
Work Order: C215099

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 23:29	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	12/30/12 23:29	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	12/30/12 23:29	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 23:29	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	12/30/12 23:29	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	12/30/12 23:29	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	12/30/12 23:29	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 23:29	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 23:29	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	12/30/12 23:29	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	12/30/12 23:29	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	12/30/12 23:29	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	12/30/12 23:29	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	12/30/12 23:29	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*76*	*1*	*100*	*76 %*	*10-179*	*2L19027*	*EPA 8270D*	*12/30/12 23:29*	*DFM*	
2-Fluorobiphenyl	*39*	*1*	*50.0*	*78 %*	*10-149*	*2L19027*	*EPA 8270D*	*12/30/12 23:29*	*DFM*	
2-Fluorophenol	*53*	*1*	*100*	*53 %*	*10-110*	*2L19027*	*EPA 8270D*	*12/30/12 23:29*	*DFM*	
Nitrobenzene-d5	*35*	*1*	*50.0*	*69 %*	*10-149*	*2L19027*	*EPA 8270D*	*12/30/12 23:29*	*DFM*	
Phenol-d5	*38*	*1*	*100*	*38 %*	*10-88*	*2L19027*	*EPA 8270D*	*12/30/12 23:29*	*DFM*	
Terphenyl-d14	*45*	*1*	*50.0*	*91 %*	*10-188*	*2L19027*	*EPA 8270D*	*12/30/12 23:29*	*DFM*	

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Description: MW-1B
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C215099-18
Sampled: 12/13/12 14:20
Sampled By: Jonathan Pfohl

Received: 12/14/12 08:45
Work Order: C215099

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	12/27/12 17:04	MSZ	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	12/27/12 17:04	MSZ	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	12/27/12 17:04	MSZ	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	12/27/12 17:04	MSZ	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	12/27/12 17:04	MSZ	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	12/27/12 17:04	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	12/27/12 17:04	MSZ	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	12/27/12 17:04	MSZ	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	12/27/12 17:04	MSZ	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	12/27/12 17:04	MSZ	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	12/27/12 17:04	MSZ	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	12/27/12 17:04	MSZ	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	12/27/12 17:04	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	12/27/12 17:04	MSZ	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	12/27/12 17:04	MSZ	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	12/27/12 17:04	MSZ	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	12/27/12 17:04	MSZ	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	12/27/12 17:04	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	12/27/12 17:04	MSZ	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	12/27/12 17:04	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	12/27/12 17:04	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.0*	*1*	*1.00*	*102 %*	*44-134*	*2L18024*	*EPA 8081B*	*12/27/12 17:04*	*MSZ*	
Decachlorobiphenyl	*0.99*	*1*	*1.00*	*99 %*	*37-149*	*2L18024*	*EPA 8081B*	*12/27/12 17:04*	*MSZ*	

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Description: MW-1B
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C215099-18
Sampled: 12/13/12 14:20
Sampled By: Jonathan Pfohl

Received: 12/14/12 08:45
Work Order: C215099

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.19	U	ug/L	1	0.19	0.50	2	EPA 8082A	12/27/12 17:04	MSZ	
PCB-1221 [11104-28-2] ^	0.046	U	ug/L	1	0.046	0.50	NE	EPA 8082A	12/27/12 17:04	MSZ	
PCB-1232 [11141-16-5] ^	0.028	U	ug/L	1	0.028	0.50	NE	EPA 8082A	12/27/12 17:04	MSZ	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	12/27/12 17:04	MSZ	
PCB-1254 [11097-69-1] ^	0.015	U	ug/L	1	0.015	0.50	NE	EPA 8082A	12/27/12 17:04	MSZ	
PCB-1260 [11096-82-5] ^	0.13	U	ug/L	1	0.13	0.50	NE	EPA 8082A	12/27/12 17:04	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.0*	*1*	*1.00*	*102 %*	*45-151*	*2L18025*	*EPA 8082A*	*12/27/12 17:04*	*MSZ*	
Decachlorobiphenyl	*0.99*	*1*	*1.00*	*99 %*	*42-159*	*2L18025*	*EPA 8082A*	*12/27/12 17:04*	*MSZ*	

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Description: MW-1B
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C215099-18
Sampled: 12/13/12 14:20
Sampled By: Jonathan Pfohl

Received: 12/14/12 08:45
Work Order: C215099

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	4.9	U	ug/L	1	4.9	10	10	EPA 9014	12/19/12 19:04	AJB	

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Description: MW-1B
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C215099-18
Sampled: 12/13/12 14:20
Sampled By: Jonathan Pfohl

Received: 12/14/12 08:45
Work Order: C215099

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.23	U	ug/L	1	0.23	0.50	2	EPA 8151A	12/22/12 08:24	RGG	
2,4,5-TP (Silvex) [93-72-1] ^	0.20	U	ug/L	1	0.20	0.50	2	EPA 8151A	12/22/12 08:24	RGG	
2,4-D [94-75-7] ^	0.16	U	ug/L	1	0.16	0.50	2	EPA 8151A	12/22/12 08:24	RGG	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	12/22/12 08:24	RGG	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	12/22/12 08:24	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*2.3*	*1*	*2.00*	*116 %*	*68-139*	*2L18057*	*EPA 8151A*	*12/22/12 08:24*	*RGG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 2L17001 - EPA 3510C_MS

Blank (2L17001-BLK1) Prepared: 12/17/2012 06:34 Analyzed: 12/30/2012 02:12

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,4,5-Tetrachlorobenzene	2.0	U	10	ug/L							
1,3,5-Trinitrobenzene	3.0	U	10	ug/L							
1,3-Dinitrobenzene	1.9	U	10	ug/L							
1,4-Naphthoquinone	2.5	U	10	ug/L							
1,4-Phenylenediamine	4.0	U	10	ug/L							
1-Naphthylamine	1.9	U	10	ug/L							
2,3,4,6-Tetrachlorophenol	2.0	U	10	ug/L							
2,4,5-Trichlorophenol	1.0	U	10	ug/L							
2,4,6-Trichlorophenol	1.1	U	10	ug/L							
2,4-Dichlorophenol	1.4	U	10	ug/L							
2,4-Dimethylphenol	1.3	U	10	ug/L							
2,4-Dinitrophenol	2.6	U	10	ug/L							
2,4-Dinitrotoluene	2.4	U	10	ug/L							
2,6-Dichlorophenol	1.1	U	10	ug/L							
2,6-Dinitrotoluene	1.5	U	10	ug/L							
2-Acetylaminofluorene	2.5	U	10	ug/L							
2-Chloronaphthalene	1.0	U	10	ug/L							
2-Chlorophenol	1.2	U	10	ug/L							
2-Methyl-4,6-dinitrophenol	2.9	U	10	ug/L							
2-Methylnaphthalene	1.5	U	10	ug/L							
2-Methylphenol	1.4	U	10	ug/L							
2-Naphthylamine	3.0	U	10	ug/L							
2-Nitroaniline	1.5	U	10	ug/L							
2-Nitrophenol	1.1	U	10	ug/L							
3 & 4-Methylphenol	1.6	U	10	ug/L							
3,3'-Dichlorobenzidine	3.3	U	10	ug/L							
3,3'-Dimethylbenzidine	2.2	U	10	ug/L							
3-Methylcholanthrene	1.3	U	10	ug/L							
3-Nitroaniline	2.1	U	10	ug/L							
4-Aminobiphenyl	2.1	U	10	ug/L							
4-Bromophenyl-phenylether	1.0	U	10	ug/L							
4-Chloro-3-methylphenol	1.5	U	10	ug/L							
4-Chloroaniline	1.2	U	10	ug/L							
4-Chlorophenyl-phenylether	1.6	U	10	ug/L							
4-Nitroaniline	3.2	U	10	ug/L							
4-Nitrophenol	2.0	U	10	ug/L							
5-Nitro-o-toluidine	3.2	U	10	ug/L							
7,12-Dimethylbenz(a)anthracene	1.1	U	10	ug/L							
Acenaphthene	1.4	U	10	ug/L							
Acenaphthylene	1.2	U	10	ug/L							
Acetophenone	1.3	U	10	ug/L							
Anthracene	1.6	U	10	ug/L							
Benzo(a)anthracene	1.3	U	10	ug/L							
Benzo(a)pyrene	1.3	U	10	ug/L							
Benzo(b)fluoranthene	1.0	U	10	ug/L							
Benzo(g,h,i)perylene	2.4	U	10	ug/L							
Benzo(k)fluoranthene	1.3	U	10	ug/L							
Benzyl alcohol	1.4	U	10	ug/L							
Bis(2-chloroethoxy)methane	1.4	U	10	ug/L							

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 2L17001 - EPA 3510C_MS

Blank (2L17001-BLK1) Continued Prepared: 12/17/2012 06:34 Analyzed: 12/30/2012 02:12

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Bis(2-chloroethyl)ether	1.2	U	10	ug/L							
Bis(2-chloroisopropyl)ether	1.3	U	10	ug/L							
Bis(2-ethylhexyl)phthalate	1.7	U	5.0	ug/L							
Butylbenzylphthalate	2.0	U	10	ug/L							
Chlorobenzilate	1.0	U	10	ug/L							
Chrysene	2.0	U	10	ug/L							
Diallate	1.0	U	10	ug/L							
Dibenzo(a,h)anthracene	2.3	U	10	ug/L							
Dibenzofuran	1.4	U	10	ug/L							
Diethylphthalate	2.1	U	10	ug/L							
Dimethoate	2.3	U	10	ug/L							
Dimethylphthalate	1.4	U	10	ug/L							
Di-n-butylphthalate	1.5	U	10	ug/L							
Di-n-octylphthalate	3.1	U	10	ug/L							
Disulfoton	1.1	U	10	ug/L							
Ethyl methanesulfonate	1.2	U	10	ug/L							
Famphur	2.7	U	10	ug/L							
Fluoranthene	2.1	U	10	ug/L							
Fluorene	1.7	U	10	ug/L							
Hexachlorobenzene	1.0	U	10	ug/L							
Hexachlorobutadiene	1.2	U	10	ug/L							
Hexachlorocyclopentadiene	1.3	U	10	ug/L							
Hexachloroethane	1.1	U	10	ug/L							
Hexachloropropene	1.7	U	10	ug/L							
Indeno(1,2,3-cd)pyrene	2.2	U	10	ug/L							
Isodrin	1.0	U	10	ug/L							
Isophorone	1.3	U	10	ug/L							
Isosafrole	1.3	U	10	ug/L							
Kepone	7.2	U	20	ug/L							QV-01
Methapyrilene	3.5	U	10	ug/L							
Methyl Methanesulfonate	1.0	U	10	ug/L							
Methyl parathion	2.5	U	10	ug/L							
Nitrobenzene	1.2	U	10	ug/L							
N-Nitrosodiethylamine	1.3	U	10	ug/L							
N-Nitrosodimethylamine	1.3	U	10	ug/L							
N-Nitrosodi-n-butylamine	1.2	U	10	ug/L							
N-Nitroso-di-n-propylamine	1.5	U	10	ug/L							
N-nitrosodiphenylamine/Diphenylamine	2.1	U	10	ug/L							
N-Nitrosomethylethylamine	1.9	U	10	ug/L							
N-Nitrosopiperidine	1.1	U	10	ug/L							
N-Nitrosopyrrolidine	1.3	U	10	ug/L							
O,O,O-Triethyl phosphorothioate	1.3	U	10	ug/L							
o-Toluidine	1.1	U	10	ug/L							
Parathion	1.7	U	10	ug/L							
p-Dimethylaminoazobenzene	1.4	U	10	ug/L							
Pentachlorobenzene	1.3	U	10	ug/L							
Pentachloronitrobenzene	1.0	U	10	ug/L							
Phenacetin	2.7	U	10	ug/L							
Phenanthrene	1.4	U	10	ug/L							

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 2L17001 - EPA 3510C_MS

Blank (2L17001-BLK1) Continued Prepared: 12/17/2012 06:34 Analyzed: 12/30/2012 02:12

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phenol	1.4	U	10	ug/L							
Phorate	1.0	U	10	ug/L							
Pronamide	1.4	U	10	ug/L							
Pyrene	2.1	U	10	ug/L							
Safrole	1.2	U	10	ug/L							
Thionazin	2.3	U	10	ug/L							
Surrogate: 2,4,6-Tribromophenol	*82*			*ug/L*	*100*		*82*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*43*			*ug/L*	*50.0*		*86*	*10-149*			
Surrogate: 2-Fluorophenol	*61*			*ug/L*	*100*		*61*	*10-110*			
Surrogate: Nitrobenzene-d5	*38*			*ug/L*	*50.0*		*76*	*10-149*			
Surrogate: Phenol-d5	*44*			*ug/L*	*100*		*44*	*10-88*			
Surrogate: Terphenyl-d14	*45*			*ug/L*	*50.0*		*91*	*10-188*			

LCS (2L17001-BS1) Prepared: 12/17/2012 06:34 Analyzed: 12/30/2012 02:43

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	31		10	ug/L	50.0		62	40-109			
4-Chloro-3-methylphenol	37		10	ug/L	50.0		74	58-121			
4-Nitrophenol	25		10	ug/L	50.0		50	33-105			
Acenaphthene	36		10	ug/L	50.0		72	39-125			
N-Nitroso-di-n-propylamine	33		10	ug/L	50.0		66	48-126			
Phenol	19		10	ug/L	50.0		38	19-78			
Pyrene	43		10	ug/L	50.0		87	44-137			
Surrogate: 2,4,6-Tribromophenol	*95*			*ug/L*	*100*		*95*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*37*			*ug/L*	*50.0*		*74*	*10-149*			
Surrogate: 2-Fluorophenol	*51*			*ug/L*	*100*		*51*	*10-110*			
Surrogate: Nitrobenzene-d5	*32*			*ug/L*	*50.0*		*65*	*10-149*			
Surrogate: Phenol-d5	*40*			*ug/L*	*100*		*40*	*10-88*			
Surrogate: Terphenyl-d14	*47*			*ug/L*	*50.0*		*94*	*10-188*			

Matrix Spike (2L17001-MS1) Prepared: 12/17/2012 06:34 Analyzed: 12/30/2012 03:14

Source: C214950-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	38		10	ug/L	50.0	1.2 U	76	40-109			
4-Chloro-3-methylphenol	42		10	ug/L	50.0	1.5 U	84	58-121			
4-Nitrophenol	27		10	ug/L	50.0	2.0 U	53	33-105			
Acenaphthene	41		10	ug/L	50.0	1.4 U	81	39-125			
N-Nitroso-di-n-propylamine	40		10	ug/L	50.0	1.5 U	80	48-126			
Phenol	23		10	ug/L	50.0	1.4 U	47	19-78			
Pyrene	43		10	ug/L	50.0	2.1 U	86	44-137			
Surrogate: 2,4,6-Tribromophenol	*99*			*ug/L*	*100*		*99*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*40*			*ug/L*	*50.0*		*79*	*10-149*			
Surrogate: 2-Fluorophenol	*60*			*ug/L*	*100*		*60*	*10-110*			
Surrogate: Nitrobenzene-d5	*39*			*ug/L*	*50.0*		*77*	*10-149*			
Surrogate: Phenol-d5	*46*			*ug/L*	*100*		*46*	*10-88*			
Surrogate: Terphenyl-d14	*44*			*ug/L*	*50.0*		*87*	*10-188*			

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 2L17001 - EPA 3510C_MS

Matrix Spike Dup (2L17001-MSD1) Prepared: 12/17/2012 06:34 Analyzed: 12/30/2012 03:45

Source: C214950-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	35		10	ug/L	50.0	1.2 U	70	40-109	7	22	
4-Chloro-3-methylphenol	40		10	ug/L	50.0	1.5 U	80	58-121	4	22	
4-Nitrophenol	28		10	ug/L	50.0	2.0 U	55	33-105	4	27	
Acenaphthene	39		10	ug/L	50.0	1.4 U	78	39-125	5	25	
N-Nitroso-di-n-propylamine	37		10	ug/L	50.0	1.5 U	74	48-126	7	23	
Phenol	22		10	ug/L	50.0	1.4 U	43	19-78	7	18	
Pyrene	45		10	ug/L	50.0	2.1 U	89	44-137	3	24	
Surrogate: 2,4,6-Tribromophenol	*98*			*ug/L*	*100*		*98*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*39*			*ug/L*	*50.0*		*78*	*10-149*			
Surrogate: 2-Fluorophenol	*56*			*ug/L*	*100*		*56*	*10-110*			
Surrogate: Nitrobenzene-d5	*36*			*ug/L*	*50.0*		*72*	*10-149*			
Surrogate: Phenol-d5	*44*			*ug/L*	*100*		*44*	*10-88*			
Surrogate: Terphenyl-d14	*47*			*ug/L*	*50.0*		*93*	*10-188*			

Batch 2L19027 - EPA 3510C_MS

Blank (2L19027-BLK1) Prepared: 12/19/2012 14:13 Analyzed: 12/30/2012 13:45

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,4,5-Tetrachlorobenzene	2.0	U	10	ug/L							
1,3,5-Trinitrobenzene	3.0	U	10	ug/L							
1,3-Dinitrobenzene	1.9	U	10	ug/L							
1,4-Naphthoquinone	2.5	U	10	ug/L							
1,4-Phenylenediamine	4.0	U	10	ug/L							
1-Naphthylamine	1.9	U	10	ug/L							
2,3,4,6-Tetrachlorophenol	2.0	U	10	ug/L							
2,4,5-Trichlorophenol	1.0	U	10	ug/L							
2,4,6-Trichlorophenol	1.1	U	10	ug/L							
2,4-Dichlorophenol	1.4	U	10	ug/L							
2,4-Dimethylphenol	1.3	U	10	ug/L							
2,4-Dinitrophenol	2.6	U	10	ug/L							
2,4-Dinitrotoluene	2.4	U	10	ug/L							
2,6-Dichlorophenol	1.1	U	10	ug/L							
2,6-Dinitrotoluene	1.5	U	10	ug/L							
2-Acetylaminofluorene	2.5	U	10	ug/L							
2-Chloronaphthalene	1.0	U	10	ug/L							
2-Chlorophenol	1.2	U	10	ug/L							
2-Methyl-4,6-dinitrophenol	2.9	U	10	ug/L							
2-Methylnaphthalene	1.5	U	10	ug/L							
2-Methylphenol	1.4	U	10	ug/L							
2-Naphthylamine	3.0	U	10	ug/L							
2-Nitroaniline	1.5	U	10	ug/L							
2-Nitrophenol	1.1	U	10	ug/L							
3 & 4-Methylphenol	1.6	U	10	ug/L							
3,3'-Dichlorobenzidine	3.3	U	10	ug/L							
3,3'-Dimethylbenzidine	2.2	U	10	ug/L							

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 2L19027 - EPA 3510C_MS

Blank (2L19027-BLK1) Continued Prepared: 12/19/2012 14:13 Analyzed: 12/30/2012 13:45

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
3-Methylcholanthrene	1.3	U	10	ug/L							
3-Nitroaniline	2.1	U	10	ug/L							
4-Aminobiphenyl	2.1	U	10	ug/L							
4-Bromophenyl-phenylether	1.0	U	10	ug/L							
4-Chloro-3-methylphenol	1.5	U	10	ug/L							
4-Chloroaniline	1.2	U	10	ug/L							
4-Chlorophenyl-phenylether	1.6	U	10	ug/L							
4-Nitroaniline	3.2	U	10	ug/L							QV-01
4-Nitrophenol	2.0	U	10	ug/L							
5-Nitro-o-toluidine	3.2	U	10	ug/L							
7,12-Dimethylbenz(a)anthracene	1.1	U	10	ug/L							
Acenaphthene	1.4	U	10	ug/L							
Acenaphthylene	1.2	U	10	ug/L							
Acetophenone	1.3	U	10	ug/L							
Anthracene	1.6	U	10	ug/L							
Benzo(a)anthracene	1.3	U	10	ug/L							
Benzo(a)pyrene	1.3	U	10	ug/L							
Benzo(b)fluoranthene	1.0	U	10	ug/L							
Benzo(g,h,i)perylene	2.4	U	10	ug/L							
Benzo(k)fluoranthene	1.3	U	10	ug/L							
Benzyl alcohol	1.4	U	10	ug/L							
Bis(2-chloroethoxy)methane	1.4	U	10	ug/L							
Bis(2-chloroethyl)ether	1.2	U	10	ug/L							
Bis(2-chloroisopropyl)ether	1.3	U	10	ug/L							
Bis(2-ethylhexyl)phthalate	1.7	U	5.0	ug/L							
Butylbenzylphthalate	2.0	U	10	ug/L							
Chlorobenzilate	1.0	U	10	ug/L							
Chrysene	2.0	U	10	ug/L							
Diallate	1.0	U	10	ug/L							
Dibenzo(a,h)anthracene	2.3	U	10	ug/L							
Dibenzofuran	1.4	U	10	ug/L							
Diethylphthalate	2.1	U	10	ug/L							
Dimethoate	2.3	U	10	ug/L							
Dimethylphthalate	1.4	U	10	ug/L							
Di-n-butylphthalate	1.5	U	10	ug/L							
Di-n-octylphthalate	3.1	U	10	ug/L							
Disulfoton	1.1	U	10	ug/L							
Ethyl methanesulfonate	1.2	U	10	ug/L							
Famphur	2.7	U	10	ug/L							
Fluoranthene	2.1	U	10	ug/L							
Fluorene	1.7	U	10	ug/L							
Hexachlorobenzene	1.0	U	10	ug/L							
Hexachlorobutadiene	1.2	U	10	ug/L							
Hexachlorocyclopentadiene	1.3	U	10	ug/L							
Hexachloroethane	1.1	U	10	ug/L							
Hexachloropropene	1.7	U	10	ug/L							
Indeno(1,2,3-cd)pyrene	2.2	U	10	ug/L							
Isodrin	1.0	U	10	ug/L							
Isophorone	1.3	U	10	ug/L							

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 2L19027 - EPA 3510C_MS

Blank (2L19027-BLK1) Continued Prepared: 12/19/2012 14:13 Analyzed: 12/30/2012 13:45

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Isosafrole	1.3	U	10	ug/L							
Kepone	7.2	U	20	ug/L							QV-01
Methapyrilene	3.5	U	10	ug/L							
Methyl Methanesulfonate	1.0	U	10	ug/L							
Methyl parathion	2.5	U	10	ug/L							
Nitrobenzene	1.2	U	10	ug/L							
N-Nitrosodiethylamine	1.3	U	10	ug/L							
N-Nitrosodimethylamine	1.3	U	10	ug/L							
N-Nitrosodi-n-butylamine	1.2	U	10	ug/L							
N-Nitroso-di-n-propylamine	1.5	U	10	ug/L							
N-nitrosodiphenylamine/Diphenylamine	2.1	U	10	ug/L							
N-Nitrosomethylethylamine	1.9	U	10	ug/L							
N-Nitrosopiperidine	1.1	U	10	ug/L							
N-Nitrosopyrrolidine	1.3	U	10	ug/L							
O,O,O-Triethyl phosphorothioate	1.3	U	10	ug/L							
o-Toluidine	1.1	U	10	ug/L							
Parathion	1.7	U	10	ug/L							
p-Dimethylaminoazobenzene	1.4	U	10	ug/L							
Pentachlorobenzene	1.3	U	10	ug/L							
Pentachloronitrobenzene	1.0	U	10	ug/L							
Phenacetin	2.7	U	10	ug/L							
Phenanthrene	1.4	U	10	ug/L							
Phenol	1.4	U	10	ug/L							
Phorate	1.0	U	10	ug/L							
Pronamide	1.4	U	10	ug/L							
Pyrene	2.1	U	10	ug/L							
Safrole	1.2	U	10	ug/L							
Thionazin	2.3	U	10	ug/L							
Surrogate: 2,4,6-Tribromophenol	*82*			*ug/L*	*100*		*82*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*39*			*ug/L*	*50.0*		*77*	*10-149*			
Surrogate: 2-Fluorophenol	*55*			*ug/L*	*100*		*55*	*10-110*			
Surrogate: Nitrobenzene-d5	*33*			*ug/L*	*50.0*		*67*	*10-149*			
Surrogate: Phenol-d5	*42*			*ug/L*	*100*		*42*	*10-88*			
Surrogate: Terphenyl-d14	*44*			*ug/L*	*50.0*		*88*	*10-188*			

LCS (2L19027-BS1) Prepared: 12/19/2012 14:13 Analyzed: 12/30/2012 14:16

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	34		10	ug/L	50.0		68	40-109			
4-Chloro-3-methylphenol	41		10	ug/L	50.0		81	58-121			
4-Nitrophenol	23		10	ug/L	50.0		47	33-105			
Acenaphthene	39		10	ug/L	50.0		79	39-125			
N-Nitroso-di-n-propylamine	37		10	ug/L	50.0		73	48-126			
Phenol	20		10	ug/L	50.0		40	19-78			
Pyrene	45		10	ug/L	50.0		90	44-137			
Surrogate: 2,4,6-Tribromophenol	*100*			*ug/L*	*100*		*100*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*40*			*ug/L*	*50.0*		*81*	*10-149*			
Surrogate: 2-Fluorophenol	*54*			*ug/L*	*100*		*54*	*10-110*			

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 2L19027 - EPA 3510C_MS

LCS (2L19027-BS1) Continued Prepared: 12/19/2012 14:13 Analyzed: 12/30/2012 14:16

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Nitrobenzene-d5	*36*			*ug/L*	*50.0*		*71*	*10-149*			
Surrogate: Phenol-d5	*41*			*ug/L*	*100*		*41*	*10-88*			
Surrogate: Terphenyl-d14	*47*			*ug/L*	*50.0*		*94*	*10-188*			

Matrix Spike (2L19027-MS1) Prepared: 12/19/2012 14:13 Analyzed: 12/30/2012 14:47

Source: C215099-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	35		10	ug/L	50.0	1.2 U	70	40-109			
4-Chloro-3-methylphenol	41		10	ug/L	50.0	1.5 U	82	58-121			
4-Nitrophenol	25		10	ug/L	50.0	2.0 U	51	33-105			
Acenaphthene	39		10	ug/L	50.0	1.4 U	78	39-125			
N-Nitroso-di-n-propylamine	37		10	ug/L	50.0	1.5 U	73	48-126			
Phenol	21		10	ug/L	50.0	1.4 U	42	19-78			
Pyrene	43		10	ug/L	50.0	2.1 U	87	44-137			
Surrogate: 2,4,6-Tribromophenol	*96*			*ug/L*	*100*		*96*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*39*			*ug/L*	*50.0*		*78*	*10-149*			
Surrogate: 2-Fluorophenol	*55*			*ug/L*	*100*		*55*	*10-110*			
Surrogate: Nitrobenzene-d5	*35*			*ug/L*	*50.0*		*69*	*10-149*			
Surrogate: Phenol-d5	*42*			*ug/L*	*100*		*42*	*10-88*			
Surrogate: Terphenyl-d14	*43*			*ug/L*	*50.0*		*87*	*10-188*			

Matrix Spike Dup (2L19027-MSD1) Prepared: 12/19/2012 14:13 Analyzed: 12/30/2012 15:18

Source: C215099-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	40		10	ug/L	50.0	1.2 U	80	40-109	14	22	
4-Chloro-3-methylphenol	47		10	ug/L	50.0	1.5 U	94	58-121	13	22	
4-Nitrophenol	32		10	ug/L	50.0	2.0 U	64	33-105	23	27	
Acenaphthene	45		10	ug/L	50.0	1.4 U	89	39-125	13	25	
N-Nitroso-di-n-propylamine	41		10	ug/L	50.0	1.5 U	82	48-126	12	23	
Phenol	26		10	ug/L	50.0	1.4 U	51	19-78	19	18	QR-02
Pyrene	49		10	ug/L	50.0	2.1 U	98	44-137	12	24	
Surrogate: 2,4,6-Tribromophenol	*110*			*ug/L*	*100*		*109*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*44*			*ug/L*	*50.0*		*89*	*10-149*			
Surrogate: 2-Fluorophenol	*65*			*ug/L*	*100*		*65*	*10-110*			
Surrogate: Nitrobenzene-d5	*40*			*ug/L*	*50.0*		*80*	*10-149*			
Surrogate: Phenol-d5	*51*			*ug/L*	*100*		*51*	*10-88*			
Surrogate: Terphenyl-d14	*49*			*ug/L*	*50.0*		*97*	*10-188*			

Organochlorine Pesticides by GC - Quality Control

Batch 2L14018 - EPA 3510C

Blank (2L14018-BLK1) Prepared: 12/14/2012 12:11 Analyzed: 12/19/2012 11:38

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.044	U	0.050	ug/L							

QUALITY CONTROL

Organochlorine Pesticides by GC - Quality Control

Batch 2L14018 - EPA 3510C

Blank (2L14018-BLK1) Continued Prepared: 12/14/2012 12:11 Analyzed: 12/19/2012 11:38

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDE	0.048	U	0.050	ug/L							
4,4'-DDT	0.049	U	0.050	ug/L							
Aldrin	0.041	U	0.050	ug/L							
alpha-BHC	0.036	U	0.050	ug/L							
beta-BHC	0.036	U	0.050	ug/L							
Chlordane (tech)	0.20	U	0.50	ug/L							
Chlordane-alpha	0.048	U	0.050	ug/L							
Chlordane-gamma	0.042	U	0.050	ug/L							
delta-BHC	0.048	U	0.050	ug/L							
Dieldrin	0.045	U	0.050	ug/L							
Endosulfan I	0.045	U	0.050	ug/L							
Endosulfan II	0.036	U	0.050	ug/L							
Endosulfan sulfate	0.032	U	0.050	ug/L							
Endrin	0.041	U	0.050	ug/L							
Endrin aldehyde	0.042	U	0.050	ug/L							
gamma-BHC	0.034	U	0.050	ug/L							
Heptachlor	0.030	U	0.050	ug/L							
Heptachlor epoxide	0.037	U	0.050	ug/L							
Methoxychlor	0.025	U	0.050	ug/L							
Toxaphene	0.22	U	0.50	ug/L							
Surrogate: 2,4,5,6-TCMX	*0.98*			*ug/L*	*1.00*		*98*	*44-134*			
Surrogate: Decachlorobiphenyl	*0.48*			*ug/L*	*1.00*		*48*	*37-149*			

LCS (2L14018-BS1) Prepared: 12/14/2012 12:11 Analyzed: 12/19/2012 11:52

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	1.1		0.050	ug/L	1.00		108	37-139			
Dieldrin	1.1		0.050	ug/L	1.00		106	46-132			
Endrin	1.1		0.050	ug/L	1.00		108	43-133			
Surrogate: 2,4,5,6-TCMX	*1.1*			*ug/L*	*1.00*		*105*	*44-134*			
Surrogate: Decachlorobiphenyl	*0.85*			*ug/L*	*1.00*		*85*	*37-149*			

Matrix Spike (2L14018-MS1) Prepared: 12/14/2012 12:11 Analyzed: 12/19/2012 12:05

Source: C214404-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	0.89		0.050	ug/L	1.00	0.049 U	89	37-139			
Dieldrin	0.66		0.050	ug/L	1.00	0.045 U	66	46-132			
Endrin	0.53		0.050	ug/L	1.00	0.041 U	53	43-133			
Surrogate: 2,4,5,6-TCMX	*0.76*			*ug/L*	*1.00*		*76*	*44-134*			
Surrogate: Decachlorobiphenyl	*1.2*			*ug/L*	*1.00*		*120*	*37-149*			

Matrix Spike Dup (2L14018-MSD1) Prepared: 12/14/2012 12:11 Analyzed: 12/19/2012 12:18

Source: C214404-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

QUALITY CONTROL

Organochlorine Pesticides by GC - Quality Control

Batch 2L14018 - EPA 3510C

Matrix Spike Dup (2L14018-MSD1) Continued Prepared: 12/14/2012 12:11 Analyzed: 12/19/2012 12:18

Source: C214404-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	1.0		0.050	ug/L	1.00	0.049 U	103	37-139	15	26	
Dieldrin	0.78		0.050	ug/L	1.00	0.045 U	78	46-132	17	27	
Endrin	0.64		0.050	ug/L	1.00	0.041 U	64	43-133	18	26	
Surrogate: 2,4,5,6-TCMX	*0.73*			*ug/L*	*1.00*		*73*	*44-134*			
Surrogate: Decachlorobiphenyl	*1.0*			*ug/L*	*1.00*		*104*	*37-149*			

Batch 2L18024 - EPA 3510C

Blank (2L18024-BLK1) Prepared: 12/18/2012 10:18 Analyzed: 12/27/2012 11:33

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.044	U	0.050	ug/L							
4,4'-DDE	0.048	U	0.050	ug/L							
4,4'-DDT	0.049	U	0.050	ug/L							
Aldrin	0.041	U	0.050	ug/L							
alpha-BHC	0.036	U	0.050	ug/L							
beta-BHC	0.036	U	0.050	ug/L							
Chlordane (tech)	0.20	U	0.50	ug/L							
Chlordane-alpha	0.048	U	0.050	ug/L							
Chlordane-gamma	0.042	U	0.050	ug/L							
delta-BHC	0.048	U	0.050	ug/L							
Dieldrin	0.045	U	0.050	ug/L							
Endosulfan I	0.045	U	0.050	ug/L							
Endosulfan II	0.036	U	0.050	ug/L							
Endosulfan sulfate	0.032	U	0.050	ug/L							
Endrin	0.041	U	0.050	ug/L							
Endrin aldehyde	0.042	U	0.050	ug/L							
gamma-BHC	0.034	U	0.050	ug/L							
Heptachlor	0.030	U	0.050	ug/L							
Heptachlor epoxide	0.037	U	0.050	ug/L							
Methoxychlor	0.025	U	0.050	ug/L							
Toxaphene	0.22	U	0.50	ug/L							
Surrogate: 2,4,5,6-TCMX	*0.78*			*ug/L*	*1.00*		*78*	*44-134*			
Surrogate: Decachlorobiphenyl	*0.52*			*ug/L*	*1.00*		*52*	*37-149*			

LCS (2L18024-BS1) Prepared: 12/18/2012 10:18 Analyzed: 12/27/2012 11:46

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	1.1		0.050	ug/L	1.00		111	37-139			
Dieldrin	1.1		0.050	ug/L	1.00		108	46-132			
Endrin	1.1		0.050	ug/L	1.00		112	43-133			
Surrogate: 2,4,5,6-TCMX	*1.0*			*ug/L*	*1.00*		*100*	*44-134*			
Surrogate: Decachlorobiphenyl	*0.82*			*ug/L*	*1.00*		*82*	*37-149*			

Matrix Spike (2L18024-MS1) Prepared: 12/18/2012 10:18 Analyzed: 12/27/2012 11:59

Source: C215099-05

QUALITY CONTROL

Organochlorine Pesticides by GC - Quality Control

Batch 2L18024 - EPA 3510C

Matrix Spike (2L18024-MS1) Continued Prepared: 12/18/2012 10:18 Analyzed: 12/27/2012 11:59

Source: C215099-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	1.1		0.050	ug/L	1.00	0.049 U	109	37-139			
Dieldrin	1.1		0.050	ug/L	1.00	0.045 U	105	46-132			
Endrin	1.1		0.050	ug/L	1.00	0.041 U	110	43-133			
Surrogate: 2,4,5,6-TCMX	*1.2*			*ug/L*	*1.00*		*119*	*44-134*			
Surrogate: Decachlorobiphenyl	*0.92*			*ug/L*	*1.00*		*92*	*37-149*			

Matrix Spike Dup (2L18024-MSD1) Prepared: 12/18/2012 10:18 Analyzed: 12/27/2012 12:12

Source: C215099-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	1.1		0.050	ug/L	1.00	0.049 U	108	37-139	1	26	
Dieldrin	1.0		0.050	ug/L	1.00	0.045 U	105	46-132	0.7	27	
Endrin	1.1		0.050	ug/L	1.00	0.041 U	109	43-133	0.8	26	
Surrogate: 2,4,5,6-TCMX	*1.1*			*ug/L*	*1.00*		*108*	*44-134*			
Surrogate: Decachlorobiphenyl	*0.87*			*ug/L*	*1.00*		*87*	*37-149*			

Polychlorinated Biphenyls by GC - Quality Control

Batch 2L14021 - EPA 3510C

Blank (2L14021-BLK1) Prepared: 12/14/2012 12:43 Analyzed: 12/19/2012 11:38

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	0.19	U	0.50	ug/L							
PCB-1221	0.046	U	0.50	ug/L							
PCB-1232	0.028	U	0.50	ug/L							
PCB-1248	0.014	U	0.50	ug/L							
PCB-1254	0.015	U	0.50	ug/L							
PCB-1260	0.13	U	0.50	ug/L							
Surrogate: 2,4,5,6-TCMX	*0.98*			*ug/L*	*1.00*		*98*	*45-151*			
Surrogate: Decachlorobiphenyl	*0.48*			*ug/L*	*1.00*		*48*	*42-159*			

LCS (2L14021-BS1) Prepared: 12/14/2012 12:43 Analyzed: 12/19/2012 12:32

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	11		0.50	ug/L	10.0		108	66-149			
PCB-1260	12		0.50	ug/L	10.0		119	64-150			
Surrogate: 2,4,5,6-TCMX	*1.1*			*ug/L*	*1.00*		*109*	*45-151*			
Surrogate: Decachlorobiphenyl	*0.92*			*ug/L*	*1.00*		*92*	*42-159*			

Matrix Spike (2L14021-MS1) Prepared: 12/14/2012 12:43 Analyzed: 12/19/2012 12:46

Source: C214404-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	12		0.50	ug/L	10.0	0.19 U	118	66-149			
PCB-1260	8.9		0.50	ug/L	10.0	0.13 U	89	64-150			

QUALITY CONTROL

Polychlorinated Biphenyls by GC - Quality Control

Batch 2L14021 - EPA 3510C

Matrix Spike (2L14021-MS1) Continued Prepared: 12/14/2012 12:43 Analyzed: 12/19/2012 12:46

Source: C214404-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: 2,4,5,6-TCMX	*0.96*			*ug/L*	*1.00*		*96*	*45-151*			
Surrogate: Decachlorobiphenyl	*0.50*			*ug/L*	*1.00*		*50*	*42-159*			

Matrix Spike Dup (2L14021-MSD1) Prepared: 12/14/2012 12:43 Analyzed: 12/19/2012 13:05

Source: C214404-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	14		0.50	ug/L	10.0	0.19 U	137	66-149	14	21	
PCB-1260	10		0.50	ug/L	10.0	0.13 U	104	64-150	15	18	
Surrogate: 2,4,5,6-TCMX	*1.1*			*ug/L*	*1.00*		*108*	*45-151*			
Surrogate: Decachlorobiphenyl	*0.76*			*ug/L*	*1.00*		*76*	*42-159*			

Batch 2L18025 - EPA 3510C

Blank (2L18025-BLK1) Prepared: 12/18/2012 10:33 Analyzed: 12/27/2012 11:33

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	0.19	U	0.50	ug/L							
PCB-1221	0.046	U	0.50	ug/L							
PCB-1232	0.028	U	0.50	ug/L							
PCB-1248	0.014	U	0.50	ug/L							
PCB-1254	0.015	U	0.50	ug/L							
PCB-1260	0.13	U	0.50	ug/L							
Surrogate: 2,4,5,6-TCMX	*0.78*			*ug/L*	*1.00*		*78*	*45-151*			
Surrogate: Decachlorobiphenyl	*0.52*			*ug/L*	*1.00*		*52*	*42-159*			

LCS (2L18025-BS1) Prepared: 12/18/2012 10:33 Analyzed: 12/27/2012 12:26

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	11		0.50	ug/L	10.0		114	66-149			
PCB-1260	12		0.50	ug/L	10.0		118	64-150			
Surrogate: 2,4,5,6-TCMX	*1.0*			*ug/L*	*1.00*		*102*	*45-151*			
Surrogate: Decachlorobiphenyl	*0.79*			*ug/L*	*1.00*		*79*	*42-159*			

Matrix Spike (2L18025-MS1) Prepared: 12/18/2012 10:33 Analyzed: 12/27/2012 12:39

Source: C215099-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	9.9		0.50	ug/L	10.0	0.19 U	99	36-200			
PCB-1260	12		0.50	ug/L	10.0	0.13 U	121	64-150			
Surrogate: 2,4,5,6-TCMX	*1.2*			*ug/L*	*1.00*		*122*	*45-151*			
Surrogate: Decachlorobiphenyl	*0.92*			*ug/L*	*1.00*		*92*	*42-159*			

Matrix Spike Dup (2L18025-MSD1) Prepared: 12/18/2012 10:33 Analyzed: 12/27/2012 12:52

QUALITY CONTROL

Polychlorinated Biphenyls by GC - Quality Control

Batch 2L18025 - EPA 3510C

Matrix Spike Dup (2L18025-MSD1) Continued Prepared: 12/18/2012 10:33 Analyzed: 12/27/2012 12:52

Source: C215099-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	8.3		0.50	ug/L	10.0	0.19 U	83	36-200	17	50	
PCB-1260	12		0.50	ug/L	10.0	0.13 U	116	64-150	4	18	
Surrogate: 2,4,5,6-TCMX	*1.1*			*ug/L*	*1.00*		*115*	*45-151*			
Surrogate: Decachlorobiphenyl	*0.84*			*ug/L*	*1.00*		*84*	*42-159*			

Classical Chemistry Parameters - Quality Control

Batch 2L13006 - Same

Blank (2L13006-BLK1) Prepared: 12/13/2012 11:25 Analyzed: 12/14/2012 12:17

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	4.9	U	10	ug/L							

LCS (2L13006-BS1) Prepared: 12/13/2012 11:25 Analyzed: 12/14/2012 12:13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	150		10	ug/L	150		103	85-115			

Matrix Spike (2L13006-MS1) Prepared: 12/13/2012 14:55 Analyzed: 12/14/2012 12:29

Source: C214412-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	4.9	U	10	ug/L	150	4.9 U		85-115			QM-05

Matrix Spike Dup (2L13006-MSD1) Prepared: 12/13/2012 14:55 Analyzed: 12/14/2012 12:32

Source: C214412-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	4.9	U	10	ug/L	150	4.9 U		85-115		20	QM-05

Batch 2L17004 - Same

Blank (2L17004-BLK1) Prepared: 12/17/2012 09:35 Analyzed: 12/19/2012 10:40

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	4.9	U	10	ug/L							

LCS (2L17004-BS1) Prepared: 12/17/2012 09:35 Analyzed: 12/19/2012 10:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	140		10	ug/L	150		91	85-115			

Matrix Spike (2L17004-MS1) Prepared: 12/17/2012 09:35 Analyzed: 12/19/2012 10:44

Source: C215099-05

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 2L17004 - Same

Matrix Spike (2L17004-MS1) Continued Prepared: 12/17/2012 09:35 Analyzed: 12/19/2012 10:44

Source: C215099-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	100		10	ug/L	150	4.9 U	69	85-115			QM-05

Matrix Spike Dup (2L17004-MSD1) Prepared: 12/17/2012 09:35 Analyzed: 12/19/2012 10:46

Source: C215099-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	97		10	ug/L	150	4.9 U	64	85-115	7	20	QM-05

Batch 2L19002 - Same

LCS (2L19002-BS1) Prepared: 12/19/2012 09:35 Analyzed: 12/19/2012 18:29

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	150		10	ug/L	150		100	85-115			

Matrix Spike (2L19002-MS1) Prepared: 12/19/2012 13:30 Analyzed: 12/19/2012 18:52

Source: C213540-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	110		10	ug/L	150	13	63	85-115			QM-07, QM-11

Matrix Spike Dup (2L19002-MSD1) Prepared: 12/19/2012 13:30 Analyzed: 12/19/2012 18:58

Source: C213540-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	160		10	ug/L	150	13	95	85-115	37	20	QM-11

QUALITY CONTROL

Dissolved Gases by GC - Quality Control

Batch 2L13029 - Same

Blank (2L13029-BLK1) Prepared: 12/13/2012 16:14 Analyzed: 12/13/2012 21:55

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Methane	0.000430	U	0.00100	mg/L							

LCS (2L13029-BS1) Prepared: 12/13/2012 16:14 Analyzed: 12/13/2012 22:11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Methane	492		0.00100	mg/L	500		98	74-120			

LCS Dup (2L13029-BSD1) Prepared: 12/13/2012 16:14 Analyzed: 12/13/2012 22:27

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Methane	527		0.00100	mg/L	500		105	74-120	7	18	

QUALITY CONTROL

Dissolved Gases by GC - Quality Control

Batch 2L13029 - Same

Duplicate (2L13029-DUP1) Prepared: 12/13/2012 16:14 Analyzed: 12/14/2012 10:47

Source: B206020-03RE1

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Methane	0.116	D	0.0100	mg/L		0.0998			15	30	

Batch 2L19021 - Same

Blank (2L19021-BLK1) Prepared: 12/20/2012 08:00 Analyzed: 12/20/2012 09:22

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Methane	0.000430	U	0.00100	mg/L							

LCS (2L19021-BS1) Prepared: 12/20/2012 08:00 Analyzed: 12/20/2012 09:38

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Methane	528		0.00100	mg/L	500		106	74-120			

LCS Dup (2L19021-BSD1) Prepared: 12/20/2012 08:00 Analyzed: 12/20/2012 09:54

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Methane	520		0.00100	mg/L	500		104	74-120	2	18	

Duplicate (2L19021-DUP1) Prepared: 12/20/2012 08:00 Analyzed: 12/20/2012 16:10

Source: C215099-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Methane	7.49	D	0.100	mg/L		7.40			1	30	

QUALITY CONTROL

Chlorinated Herbicides by GC - Quality Control

Batch 2L13009 - EPA 3510C

Blank (2L13009-BLK1) Prepared: 12/13/2012 11:00 Analyzed: 12/17/2012 10:28

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.23	U	0.50	ug/L							
2,4,5-TP (Silvex)	0.20	U	0.50	ug/L							
2,4-D	0.16	U	0.50	ug/L							
Dinoseb	0.32	U	0.50	ug/L							
Pentachlorophenol	0.19	U	0.50	ug/L							
Surrogate: 2,4-DCAA	*2.2*			*ug/L*	*2.00*		*110*	*68-139*			

LCS (2L13009-BS1) Prepared: 12/13/2012 11:00 Analyzed: 12/17/2012 11:20

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	2.4		0.50	ug/L	2.00		119	70-114			QL-02
2,4-D	2.4		0.50	ug/L	2.00		120	37-129			

QUALITY CONTROL

Chlorinated Herbicides by GC - Quality Control

Batch 2L13009 - EPA 3510C

LCS (2L13009-BS1) Continued Prepared: 12/13/2012 11:00 Analyzed: 12/17/2012 11:20

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: 2,4-DCAA	*2.1*			*ug/L*	*2.00*		*104*	*68-139*			

Matrix Spike (2L13009-MS1) Prepared: 12/13/2012 11:00 Analyzed: 12/17/2012 11:46

Source: A206842-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	2.5		0.50	ug/L	2.00	0.20 U	126	70-114			
2,4-D	2.5		0.50	ug/L	2.00	0.16 U	124	37-129			
Surrogate: 2,4-DCAA	*2.2*			*ug/L*	*2.00*		*111*	*68-139*			

Matrix Spike Dup (2L13009-MSD1) Prepared: 12/13/2012 11:00 Analyzed: 12/17/2012 12:12

Source: A206842-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	2.4		0.50	ug/L	2.00	0.20 U	121	70-114	4	15	
2,4-D	2.5		0.50	ug/L	2.00	0.16 U	123	37-129	1	33	
Surrogate: 2,4-DCAA	*2.1*			*ug/L*	*2.00*		*107*	*68-139*			

Batch 2L18004 - EPA 3510C

Blank (2L18004-BLK1) Prepared: 12/18/2012 05:30 Analyzed: 12/19/2012 15:44

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.23	U	0.50	ug/L							
2,4,5-TP (Silvex)	0.20	U	0.50	ug/L							
2,4-D	0.16	U	0.50	ug/L							
Dinoseb	0.32	U	0.50	ug/L							
Pentachlorophenol	0.19	U	0.50	ug/L							
Surrogate: 2,4-DCAA	*2.2*			*ug/L*	*2.00*		*112*	*68-139*			

LCS (2L18004-BS1) Prepared: 12/18/2012 05:30 Analyzed: 12/19/2012 16:35

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	2.4		0.50	ug/L	2.00		120	70-114			QL-02
2,4-D	2.4		0.50	ug/L	2.00		119	37-129			
Surrogate: 2,4-DCAA	*2.1*			*ug/L*	*2.00*		*105*	*68-139*			

Matrix Spike (2L18004-MS1) Prepared: 12/18/2012 05:30 Analyzed: 12/19/2012 17:00

Source: A206982-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	2.0		0.50	ug/L	2.00	0.20 U	98	70-114			
2,4-D	1.5		0.50	ug/L	2.00	0.16 U	77	37-129			
Surrogate: 2,4-DCAA [2C]	*2.6*			*ug/L*	*2.00*		*129*	*68-139*			

QUALITY CONTROL

Chlorinated Herbicides by GC - Quality Control

Batch 2L18004 - EPA 3510C

Matrix Spike Dup (2L18004-MSD1) Prepared: 12/18/2012 05:30 Analyzed: 12/19/2012 17:26

Source: A206982-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	2.6		0.50	ug/L	2.00	0.20 U	129	70-114	5	15	
2,4-D	2.6		0.50	ug/L	2.00	0.16 U	131	37-129	2	33	QM-07
Surrogate: 2,4-DCAA	*1.7*			*ug/L*	*2.00*		*85*	*68-139*			

Batch 2L18057 - EPA 3510C

Blank (2L18057-BLK1) Prepared: 12/18/2012 18:00 Analyzed: 12/22/2012 00:20

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.23	U	0.50	ug/L							
2,4,5-TP (Silvex)	0.20	U	0.50	ug/L							
2,4-D	0.16	U	0.50	ug/L							
Dinoseb	0.32	U	0.50	ug/L							
Pentachlorophenol	0.19	U	0.50	ug/L							
Surrogate: 2,4-DCAA	*2.2*			*ug/L*	*2.00*		*108*	*68-139*			

Blank (2L18057-BLK2) Prepared: 12/18/2012 18:00 Analyzed: 12/22/2012 00:45

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	1.2	U	2.5	ug/L							
2,4,5-TP (Silvex)	1.0	U	2.5	ug/L							
2,4-D	0.80	U	2.5	ug/L							
Dinoseb	1.6	U	2.5	ug/L							
Pentachlorophenol	0.95	U	2.5	ug/L							
Surrogate: 2,4-DCAA	*9.9*			*ug/L*	*10.0*		*99*	*68-139*			

LCS (2L18057-BS1) Prepared: 12/18/2012 18:00 Analyzed: 12/24/2012 11:25

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	2.2		0.50	ug/L	2.00		111	70-114			
2,4-D	2.0		0.50	ug/L	2.00		98	37-129			
Surrogate: 2,4-DCAA	*2.2*			*ug/L*	*2.00*		*112*	*68-139*			

Matrix Spike (2L18057-MS1) Prepared: 12/18/2012 18:00 Analyzed: 12/22/2012 01:36

Source: C215099-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	2.5		0.50	ug/L	2.00	0.20 U	125	70-114			QM-07
2,4-D	3.8		0.50	ug/L	2.00	0.16 U	190	37-129			QM-07
Surrogate: 2,4-DCAA [2C]	*2.8*			*ug/L*	*2.00*		*138*	*68-139*			

Matrix Spike Dup (2L18057-MSD1) Prepared: 12/18/2012 18:00 Analyzed: 12/22/2012 02:02

Source: C215099-05

QUALITY CONTROL

Chlorinated Herbicides by GC - Quality Control

Batch 2L18057 - EPA 3510C

Matrix Spike Dup (2L18057-MSD1) Continued Prepared: 12/18/2012 18:00 Analyzed: 12/22/2012 02:02

Source: C215099-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	1.9		0.50	ug/L	2.00	0.20 U	93	70-114	29	15	QM-11
2,4-D	2.6		0.50	ug/L	2.00	0.16 U	131	37-129	37	33	QM-07, QM-11
Surrogate: 2,4-DCAA [2C]	*1.6*			*ug/L*	*2.00*		*82*	*68-139*			

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
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.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
QL-02	The associated laboratory control sample exhibited high bias; since the result is ND, the impact on data quality is minimal.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-11	Precision between duplicate matrix spikes of the same sample was outside acceptance limits.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QS-03	Surrogate recovery outside acceptance limits
QS-06	Surrogate recovery exceeded acceptance criteria due to coelution. Matrix effect confirmed.
QV-01	The associated continuing calibration verification standard exhibited high bias; since the result is ND, the impact on data quality is minimal.

Partial submittal. Combine future samples w/ these in 1 Report

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Address: P.O. Box 97	Project Name/Desc: Alexander MSWLF
City/ST/Zip: Garner, NC 27529	PO # / Billing Info:
Tel: (919) 772-5393 Fax: (919) 772-1176	Reporting Contact: Jonathan Pfohl
Sampler(s) Name, Affiliation (Print): J. Pfohl, MESCO	Billing Contact: Accounts Payable
Sampler(s) Signature: [signature]	Site Location / Time Zone:

Requested Analyses: 8081B Appendix 2, 8082A Appendix 2, 8151A Appendix 2, 8270D Appendix 2; Cyanide Total 9014; RSK175

Requested Turnaround Times: Note : Rush requests subject to acceptance by the facility
✓ Standard
___ Expedited
Due ___/___/___

Lab Workorder: C214412

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8081B Appendix 2, 8082A Appendix 2, 8151A Appendix 2, 8270D Appendix 2	Cyanide Total 9014	RSK175								Sample Comments
	~~MW-3~~ MW-4R	12/11/12	11:50	Grab	GW	4	X	X									
	~~MW-3~~				GW	4	X	X									
	~~MW-5~~				GW	3			X								
	MW-6 - Call if Not in cooler	12/11/12	9:20	Grab	GW	3			X								
	~~MW-7~~				GW	4	X	X									
	MW-9	12/11/12	2:50	Grab	GW	4	X	X									
	MW-10	12/11/12	1:05	Grab	GW	4	X	X									
	~~MW-11~~				GW	7	X	X	X								
	~~MW-12 MS/MSD~~				GW	14	X	X	X								
	~~MW-12D~~				GW	7	X	X	X								
	MW-13	12/11/12	8:40	Grab	GW	4	X	X									
	MW-14	12/11/12	3:35	Grab	GW	4	X	X									
							<-- Total # of Containers										

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
		[signature] 12/12/12	8:15	[signature]	12/12/12 8:20
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time

Cooler #'s & Temps on Receipt: A3 2.1°C Gillel 2.1°C C-13 1.7°C Red 2.2°C

Condition Upon Receipt: X Acceptable ___ Unacceptable

Matrix : GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments) Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

Partial submittal
Combine future samples
w/ these in 1 Report.

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Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

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Client Name: Municipal Engineering Services (MU001)	Project Number: G10003.0
Address: P.O. Box 97	Project Name/Desc: Alexander MSWLF
City/ST/Zip: Garner, NC 27529	PO # / Billing Info:
Tel: (919) 772-5393 Fax: (919) 772-1176	Reporting Contact: Jonathan Pfohl
Sampler(s) Name, Affiliation (Print):	Billing Contact: Accounts Payable
Sampler(s) Signature:	Site Location / Time Zone:

Requested Analyses: 8081B Appendix 2, 8082A Appendix 2, 8151A Appendix 2, 8270D Appendix 2; Cyanide Total 9014; RSK175

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

✓ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C214412

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8081B Appendix 2, 8082A Appendix 2, 8151A Appendix 2, 8270D Appendix 2	Cyanide Total 9014	RSK175								Sample Comments
	MW-15	12/11/12	2:00	Grab	GW	4	X	X									
	~~MW-16~~ MW-20	12/11/12	4:40	Grab	GW	4	X	X	X								
	MW-17	12/10/12	3:25	Grab	GW	4	X	X									
	~~MW-18~~ MW-22	12/10/12	2:05	Grab	GW	4	X	X	X								
	MW-21	12/10/12	2:45	Grab	GW	4	X	X									
	~~MW-22~~ MW-23	12/10/12	1:00	Grab	GW	4	X	X	X								
	~~MW-25~~				GW	3			X								
	~~MW-26~~				GW	7	X	X	X								
	~~MW-27~~				GW	7	X	X	X								
	~~MW-31~~				GW	7	X	X	X								
	MW-32	12/11/12	10:05	Grab	GW	4	X	X									
	~~MW-33~~ MW-19	12/11/12	4:05	Grab	GW	4	X	X	X								

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By: MESCO 8:15	Date/Time: 12/12/12	Received By: [illegible]	Date/Time: 12/12/12 8:20
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: C13 1.7°C A3 2.1°C Red 2.2°C		Condition Upon Receipt: X Acceptable ___ Unacceptable	

Matrix : GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments) Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

LG161 - 2.1°C

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Page 1 of 2

Client Name: Municipal Engineering Services (MU001)	Project Number: G10003.0
Address: P.O. Box 97	Project Name/Desc: Alexander MSWLF
City/ST/Zip: Garner, NC 27529	PO # / Billing Info:
Tel: (919) 772-5393 Fax: (919) 772-1176	Reporting Contact: Jonathan Pfohl
Sampler(s) Name, Affiliation (Print): JPFH	Billing Contact: Accounts Payable
Sampler(s) Signature:	Site Location / Time Zone:

Requested Analyses: 8081B Appendix 2 8082A Appendix 2 8151A Appendix 2 8270D Appendix 2; Cyanide Total 9014; RSK175; Herbicides Sent to Orlando; 8270D App. 2

Requested Turnaround Times: Note : Rush requests subject to acceptance by the facility

✓ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C215099 ~~C214412~~

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers										Sample Comments
	~~[illegible]~~				GW	4	X	X								
	MW-3	12/12/12	1:00	Grab	GW	3	X	X								
	MW-5	12/13/12	11:25		GW	3			X							
	~~[illegible]~~		9		GW	3			X							
	MW-7	12/13/12	12:00		GW	3	X	X								
	~~[illegible]~~				GW	3	X	X								
	~~MW-10~~				GW	3	X	X								
	MW-11	12/12/12	12:00		GW	6	X	X	X							
	MW-12 MS/MSD	12/12/12	4:40		GW	12	X	X	X							
	MW-12D	12/12/12	4:05		GW	6	X	X	X							
	~~[illegible]~~				GW	4	X	X								
	~~[illegible]~~ EB	12/13/12	8:30	Grab	GW	1						X		X		

<-- Total # of Containers

Sample Kit Prepared By: JK/MS	Date/Time: 12-5-12	Relinquished By: JM / MESCO	Date/Time: 8:35 12/14/12	Received By: [illegible]	Date/Time: 12-14-12 8:45
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time

Cooler #'s & Temps on Receipt: A-3 RED Blue C-009 LG-161 C-13 C-835

2.0°C 2.1°C 2.2°C 1.7°C 2.0°C

Condition Upon Receipt: ✓ Acceptable ___ Unacceptable

Matrix : GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

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Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

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Client Name: Municipal Engineering Services (MU001)	Project Number: G10003.0
Address: P.O. Box 97	Project Name/Desc: Alexander MSWLF
City/ST/Zip: Garner, NC 27529	PO # / Billing Info:
Tel: (919) 772-5393 Fax: (919) 772-1176	Reporting Contact: Jonathan Pfohl
Sampler(s) Name, Affiliation (Print): J Pfohl	Billing Contact: Accounts Payable
Sampler(s) Signature:	Site Location / Time Zone:

Requested Turnaround Times
Note : Rush requests subject to acceptance by the facility
✓ Standard
___ Expedited
Due ___/___/___

Lab Workorder: C215099 C214412

Requested Analyses: 8081B Appendix 2, 8151A Appendix 2, 8270D Appendix 2; Cyanide Total 9014; RSK175; Herbicides sent to Orlando

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8081B Appendix 2, 8151A Appendix 2	Cyanide Total 9014	RSK175	Herbicides sent to Orlando							Sample Comments
	~~MW-15~~				GW	4	X	X									
	MW-16	12/13/12	1:30	Grab	GW	6	X	X	X								
	~~MW-17~~				GW	4	X	X									
	MW-18	12/12/12	9:00	Grab	GW	6	X	X	X								
	~~MW-21~~				GW	4	X	X									
	MW-24	12/12/12	11:00	Grab	GW	6	X	X	X								
	MW-25	12/13/12	10:40	Grab	GW	3			X								
	MW-26	12/12/12	3:10		GW	6	X	X	X								
	MW-27	12/12/12	1:40		GW	6	X	X	X								
	MW-31	12/12/12	2:30		GW	6	X	X	X								
	~~MW-32~~ MW-34	12/12/12	10:10		GW	3	X	X									
	MW-33	12/12/12	9:30		GW	3	X	X	[redacted]								

- No RSK175 even if Bottles received

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By: /MESCO 8:35 12/14/12	Date/Time	Received By	Date/Time: 12/14/12 8:45
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt		Condition Upon Receipt: X Acceptable ___ Unacceptable	

Matrix : **GW**-Groundwater **SO**-Soil **DW**-Drinking Water **SE**-Sediment **SW**-Surface Water **WW**-Wastewater **A**-Air **O**-Other (detail in comments)

Preservation: **I**-Ice **H**-HCl **N**-HNO3 **S**-H2SO4 **NO**-NaOH **O**-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

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Appendix B
Field Sampling Parameter Data Sheet(s)

Sampling Data Sheet

Municipal Services Engineering Company — Gastonia, NC — Hickory, NC

Project: Alexander Co Closed C&D over Closed MSWLF (DM)

Samplers: J. Pfohl Page 1 of 1

Monitoring Point	Sample Date	Sample Time	Sampling Parameters: Depth to Water (BTOP) Static	Order of Expected VOCs 1 Worst	Volume Purged (Gal)	Sample Type	Goes Dry During Purge	Total Depth Measured as expected	Total Depth Expected	Water Quality Parameters: CO2 (mg/l)	DO (mg/L)	ORP	pH	Temp. ©	Specific Cond. (us/cm	TDS (mg/L)	Turbidity	CH4 Gas Vapors
MW-1	12/13/12	3:00	36.52	9	1	DB	Y	Y	40	NR	0.3	-61	6.38	16.9	600	290	ST	NR
MW-1A	NS	-	DRY	C	-	-	-	-	48.5	-	-	-	-	-	-	-	-	
MW-1B	12/13/12	2:20	47.25	14	8	P&DB	Y	Y	61	NR	0.3	352	5.88	15.7	90	40	C	NR
MW-2	NS	DRY	>30.45	7	-	-	-	Y	30.45 BTOC 30	-	-	-	-	-	-	-	-	NR
MW-4R	12/11/12	11:50	17.18	4	5	DB	N	Y	21.5	NR	0.1	-92	6.61	17.1	900	440	C	NR
MW-9	12/11/12	2:50	13.03	13	8	P&DB	Y	Y	31.5	NR	0.1	132	6.88	14.4	650	320	ST	NR
MW-10	12/11/12	1:05	38.79	C	28	P&DB	Y	sulphur smell Y	91	NR	0.7	-62	7.21	14.9	300	140	C	NR
MW-14	12/11/12	3:35	41.64	11	2	DB	Y	slow recharge Y	40.5	NR	0.9	126	5.97	14.3	610	300	C	NR
MW-15	12/11/12	2:00	25.85	12	6	P&DB	Y	Y	35	NR	0.3	-61	6.64	14.7	300	140	C	NR
MW-17	12/10/12	3:25	21.95	C	2	DB	Y	Y	22.3	NR	1.6	127	6.07	13.3	100	40	ST	NR
MW-19	12/11/12	4:05	54.12	C	4	DB	Y	Y	63.92	NR	2.0	207	6.53	15.1	40	10	ST	NR
MW-20	12/11/12	4:40	41.24	C	14	P&DB	Y	Y	63.55	NR	1.3	63	6.42	14.4	80	30	C	NR
MW-21	12/10/12	2:45	36.51	C	6	P&DB	N	Y	41.05	NR	2.1	302	5.91	13.8	60	20	C	NR
MW-22	12/10/12	11:05	16.21	16	4	DB	Y	Y	18.12	NR	5.7	238	6.32	15.7	40	10	C	NR
MW-23	12/10/12	1:00	19.30	C	5	DB	N	Y	21.54	NR	6.2	201	6.87	15.5	120	50	ST	NR
SW-3	12/10/12	4:00	-	C	-		-	-	-	-	6.8	10	6.82	8.8	70	30	C	-
SW-4R	12/10/12	1:10	-	C	-		-	-	-	-	7.1	27	6.99	8.4	80	30	C	-
SW-5	12/13/12	9:35	-	C	-		-	-	-	-	6.8	39	6.93	8.6	100	40	C	-
SW-6	12/13/12	9:55									7.2	53	6.88	8.8	70	30	C	

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

Sampling Data Sheet

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

Project: Alexander Co Closed C&D over Closed MSWLF (DM & MNA)

Samplers: J. Pfohl Page 1 of 1

Monitoring Point	Sample Date	Sample Time	Sampling Parameters: Depth to Water (BTOP) Static	Order of Expected VOCs 1 Worst	Volume Purged (Gal)	Sample Type	Goes Dry During Purge	Total Depth Measured as expected	Total Depth Expected	Water Quality Parameters: CO2 (mg/l)	DO (mg/L)	ORP	pH	Temp. ©	Specific Cond. (us/cm	TDS (mg/L)	Turbidity	CH4 Gas Vapors
MW-3	12/12/12	1:00	26.18	1 VTC	2	DB	Y	Y	33	NR	0.2	-28	5.99	15.5	280	130	c	NR
MW-5	12/13/12	11:25	43.82	8	5	DB	Y	Y	49.1	NR	0.4	-71	6.68	15.1	400	190	20.8 c	NR
MW-6	12/11/12	9:20	35.22	C	6	DB	Y	Y	42	NR	0.7	183	6.82	12.4	420	200	29.7 c	NR
MW-7	12/13/12	12:00	41.21	15	4	DB	Y	Y	54	NR	0.1	-101	7.07	15.9	510	250	c	NR
MW-11	12/12/12	12:00	43.18	2 U	10	P&DB	N	Y	56	NR	0.8	103	5.99	11.4	160	70	133 ST	NR
MW-12	12/12/12	4:40	55.90	6 U	7	P&DB	N	Y	66.5	NR	0.9	26	6.01	10.1	180	80	12.9 c	NR
MW-12D	12/12/12	4:05	64.80	C U	22	P&DB	N	Y	102.5	NR	0.1	-91	7.14	10.5	810	400	19.1 c	NR
MW-13	12/10/12	8:40	47.04	C	11	P&DB	N	Y	60.5	NR	0.9	58	6.58	9.9	270	130	c	NR
MW-16	12/13/12	1:30	32.35	3	8	P&DB	N	Y	40.25	NR	0.3	151	6.53	11.1	180	90	91.8 ST	NR
MW-18	12/12/12	9:00	54.50	C U	2	PD	Y	Y	56.7	NR	3.1	-81	6.93	12.4	40	20	582 MT	NR
MW-24	12/12/12	11:00	33.01	C U	4	DB	N	Y	35.35	NR	0.3	390	5.93	12.4	180	90	ST	NR
MW-25	12/13/12	10:40	33.99	C	6	DB	Y	Y	44.48	NR	0.3	153	6.47	12.1	190	90	82.1 ST	NR
MW-26	12/12/12	3:10	32.76	5 U	8	P&DB	Y	Y	49.8	NR	0.3	281	6.33	15.4	290	140	28.9 c	NR
MW-27	12/12/12	1:40	23.98	10 U	14	P&DB	Y	Y	49.82	NR	3.1	303	6.33	14.8	500	240	33.2 c	NR
MW-31	12/12/12	2:30	28.18	U	5	DB	N	Y	32.56	NR	0.4	205	5.81	14.5	100	40	c	NR
EB	12/13/12	8:30	-															
FB	12/13/12	8:40	-															
TB	12/13/12	Pure Field	-															
MW-32	12/11/12	10:05	32.37		6	P&DB	N	Y	42.7	NR	1.1	291	7.01	14.9	100	40	c	NR
MW-33	12/12/12	9:30	14.17	U	10	DB	N	Y	21.38	40	4.7	112	5.89	15.2	60	30	20.75 ST	NR
MW-34	12/12/12	10:10	9.35	U	11	DB	N	Y	21.19	70	4.5	145	6.73	15.4	80	30	192 ST	NR

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