Semi-Annual Water Quality Monitoring Report with Corrective Action Update

Prepared for

Alexander County Active C&D and Closed MSWLF

Taylorsville, North Carolina

June 2012

Permit Number: 02-01

MESCO Project Number: G12003.0

Submitted: November 6, 2012

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	June 12-15, 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 10 wells per CAER
☐ 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 11/6/12

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)

November 6, 2012

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

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 spring 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 June 12-15, 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 twelve wells that monitor the uppermost aquifer but concentrations are decreasing over time and distance. The surface water samples collected from the discharge features remain unimpacted. 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.

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

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 MW-1A which is chronically dry and MW-7 which was exempt from analysis during this event. Assessment monitoring (App I plus previous detects) was performed on 19 wells (MW-1, MW-1B, MW-2, MW-3, MW-4R, 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) was performed on four surface water points (SW-3, SW-4R, SW-5 and SW-6). Corrective action monitoring (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). 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), dissolved CO_2, 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. All groundwater samples were analyzed for the constituents listed in 40 CFR 258 Appendix I plus the Appendix II exclusive constituents (defined in this report as not also listed in Appendix I) detected during the previous December 2011 event. 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 monitored natural attenuation (MNA) parameters as part of corrective action. Quality control blanks were tested for Appendix I parameters and sulfide. 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

Constituents were not detected above the MDL in any of the blanks therefore the data set appears to not be effected by laboratory or field induced artifact contamination.

Groundwater Samples

Appendix I total undissolved metals were not detected in levels above 2L Standards. The Appendix I 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-2, MW-3, MW-4R, MW-5, MW-7, MW-10, MW-11, MW-12, MW-15, MW-16, MW-26) and para-dichlorobenzene (MW-11, MW-12). Chlorinated aliphatic hydrocarbons detected in concentrations over SWSL and 2L Standards included tetrachloroethylene in MW-16 and vinyl chloride in MW-2.

Appendix II exclusive parameters were not detected in concentrations above the SWSL or in exceedance of 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

Constituents were not detected in any of the surface water samples in concentrations above the SWSL or 2B Standards.

Groundwater and Surface Water Characterization

At the landfill, groundwater flow direction 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 in accordance with the established monitoring schedule following the next semi-annual event. General background information and activities performed since the *CAER* 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 second of four planned consecutive semi-annual monitoring events that MW-33 and MW-34 has underwent full MNA parameter suite analysis. 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. Extension of the eastern relative point of compliance downgradient of AOC MW-16 has been proposed to the SWS following the acquisition of a 15.7 acre parcel from Crescent Resources on March 3, 2011. Recordation of Survey Plat titled *Survey For Notice of Contaminated Site Alexander County Landfill* (dated May 22, 2012) was approved by the SWS on November 1, 2012. A Notice and Declaration of Perpetual Land Use Restrictions for this parcel is planned to be recorded at the Alexander County Register of Deeds Office.

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 the MW-24 AOC. The county continued to maintain the stand during this semi-annual period which included replacement of approximately 15 dead or dying trees in May 2012, supplemental watering and destruction of competing vegetation. MESCO personnel continued to monitor tree growth by recording measurements of ten designated sample trees on March 29, 2012 and June 15, 2011. Modest tree growth (15 inch average) was observed during this quarter with measurements presented in **Table 8**.

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 March 29, 2012 and June 15, 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 March 29, 2012 and the fifth event was performed in conjunction with this semi-annual event on June 14, 2012. During this event total VOCs decreased 21% and benzene concentrations were identical in MW-26 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. The LFG extraction wells have been consistently observed to be passively venting LFG since installation. 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 measured locations. A new 1.5 hp SVE unit was installed on November 1, 2012 and is planned to operate indefinitely.

Findings

The semi-annual laboratory results indicate that low level 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 exhibit a decreasing 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-2 which did not change. Total VOC percent reduction during this event compared to their established baseline were AOC MW-1B (37%), AOC MW-16 (22%), AOC MW-24 (24%), AOC MW-26 (32%) and site-wide (27%) (**Figure 6**). All constituents detected in quantifiable concentrations above the 2L were detected within their own respective historically identified range.

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. Phytoremediation monitoring and quarterly water quality monitoring of AOC-26 was performed on September 27, 2012, the findings of which will be provided in an upcoming report. The next scheduled semi-annual facility-wide monitoring event is scheduled for December 2012. 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

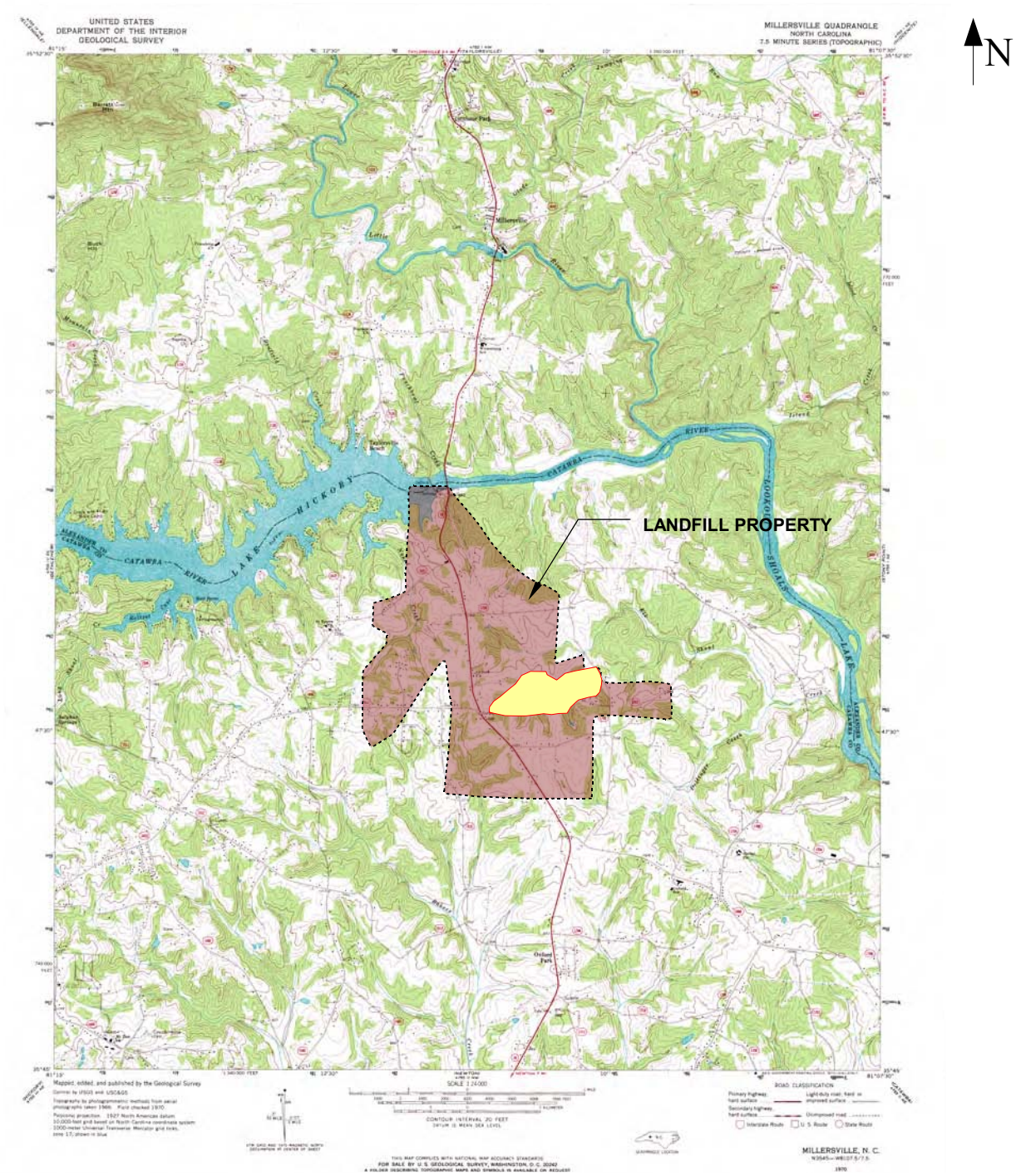
NORTH CAROLINA LICENSED SEAL 0875 GEOLOGIST D. MARK DURWAY

Enclosures

cc: Mr. 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

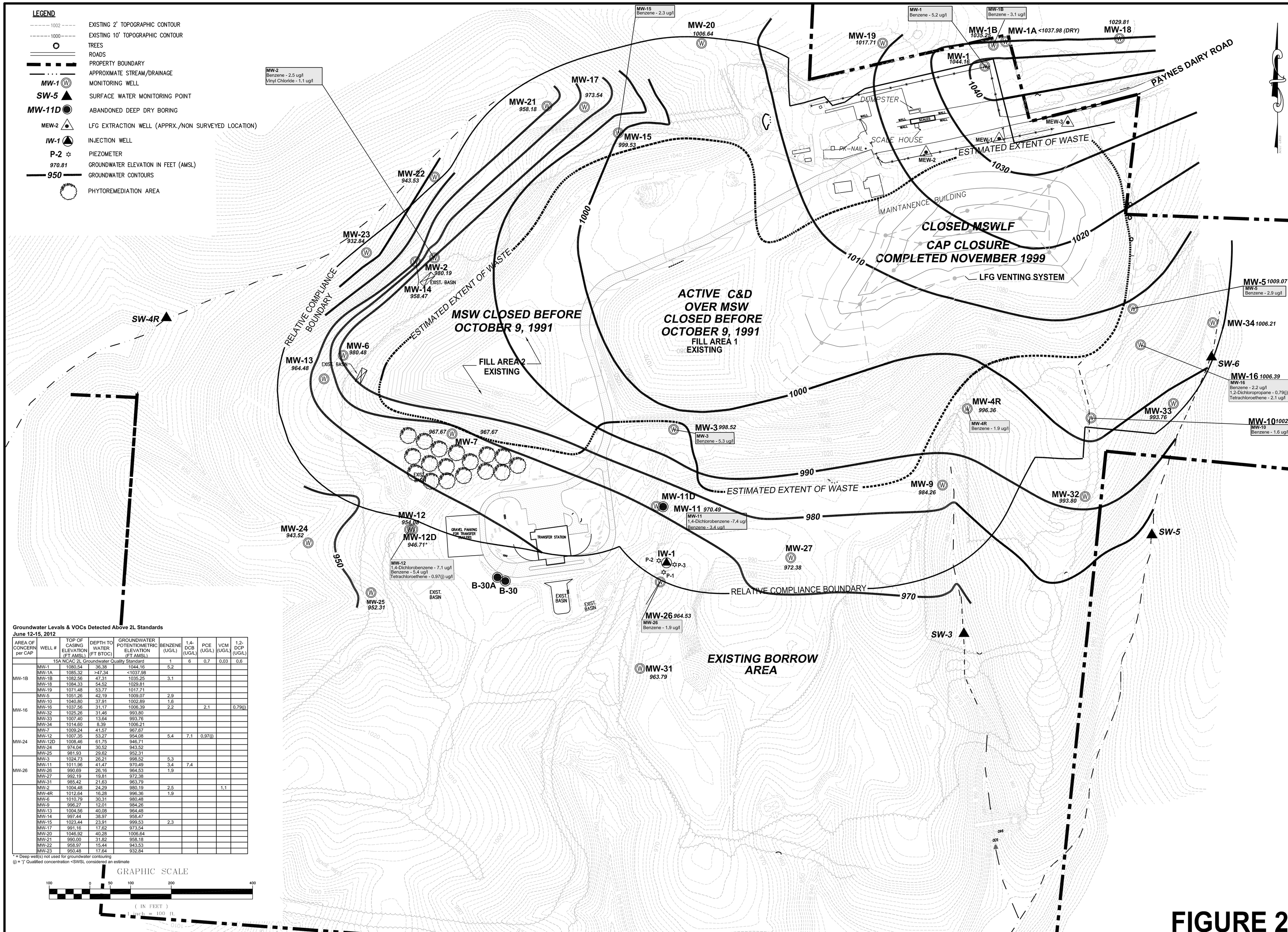
Secondary highway, hard surface

Unimproved road

Interstate Route U. S. Route State Route

0 1/2 1 MILE

FIGURE 1



Groundwater Levels & VOCs Detected Above 2L Standards
June 12-15, 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)	VCM (UG/L)	1,2-DCP (UG/L)
	15A NCAC 2L Groundwater Quality Standard				1	6	0.7	0.03	0.6
MW-1B	MW-1	1080.54	36.38	1044.16	5.2				
	MW-1A	1085.32	>47.34	<1037.98					
	MW-1B	1082.56	47.31	1035.25	3.1				
	MW-18	1084.33	54.52	1029.81					
	MW-19	1071.48	53.77	1017.71					
MW-16	MW-5	1051.26	42.19	1009.07	2.9				
	MW-10	1040.80	37.91	1002.89	1.6				
	MW-16	1037.56	31.17	1006.39	2.2		2.1		0.79(j)
	MW-32	1025.26	31.46	993.80					
	MW-33	1007.40	13.64	993.76					
	MW-34	1014.60	8.39	1006.21					
MW-24	MW-7	1009.24	41.57	967.67					
	MW-12	1007.35	53.27	954.08	5.4	7.1	0.97(j)		
	MW-12D	1008.46	61.75	946.71					
	MW-24	974.04	30.52	943.52					
	MW-25	981.93	29.62	952.31					
MW-26	MW-3	1024.73	26.21	998.52	5.3				
	MW-11	1011.96	41.47	970.49	3.4	7.4			
	MW-26	990.69	26.16	964.53	1.9				
	MW-27	992.19	19.81	972.38					
	MW-31	985.42	21.63	963.79					
	MW-2	1004.48	24.29	980.19	2.5			1.1	
	MW-4R	1012.64	16.28	996.36	1.9				
	MW-6	1010.79	30.31	980.48					
	MW-9	996.27	12.01	984.26					
	MW-13	1004.56	40.08	964.48					
	MW-14	997.44	38.97	958.47					
	MW-15	1023.44	23.91	999.53	2.3				
	MW-17	991.16	17.62	973.54					
	MW-20	1046.92	40.28	1006.64					
	MW-21	990.00	31.82	958.18					
	MW-22	958.97	15.44	943.53					
	MW-23	950.48	17.64	932.84					

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

FIGURE 2

Municipal Services Engineering 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

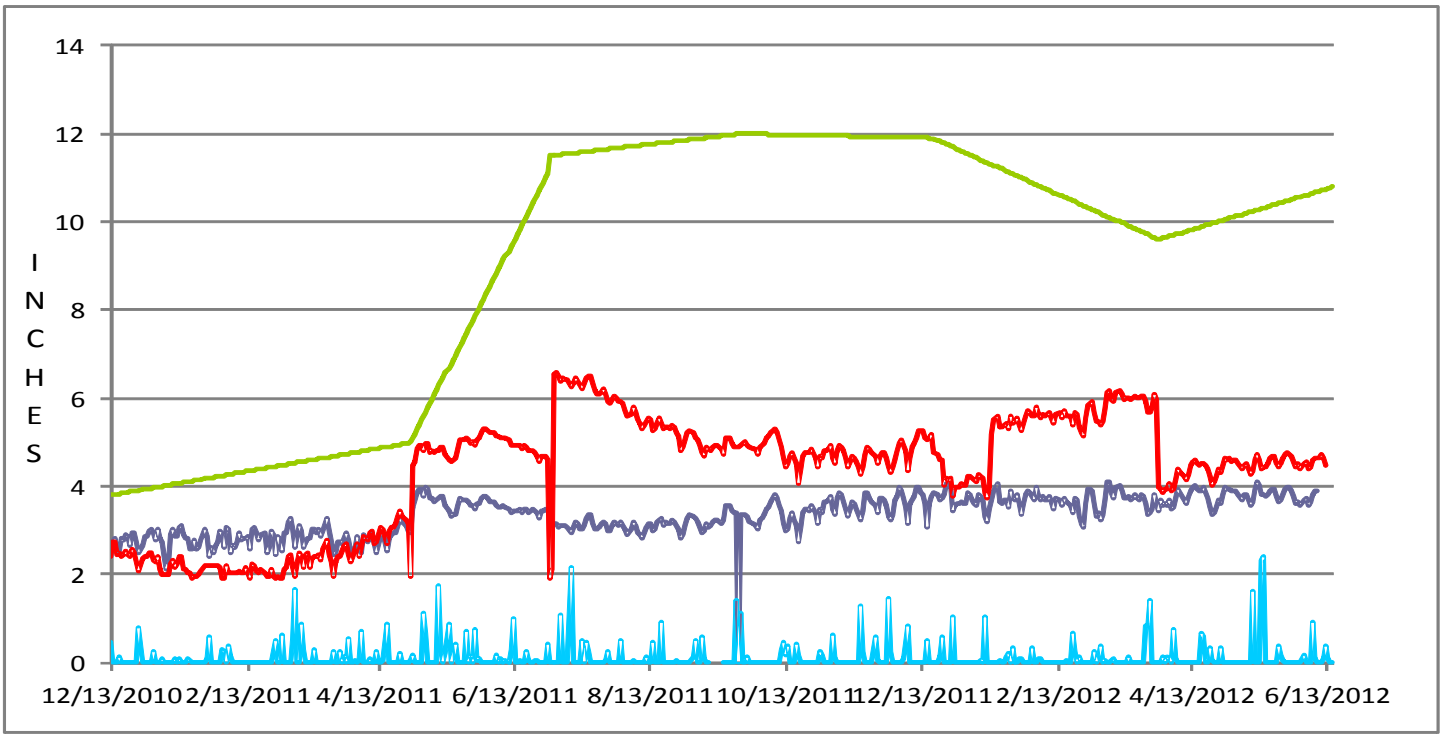
ACTIVE CONSTRUCTION and DEMOLITION
CLOSED UNLINED MSW LANDFILL FACILITY
ALEXANDER COUNTY
NORTH CAROLINA

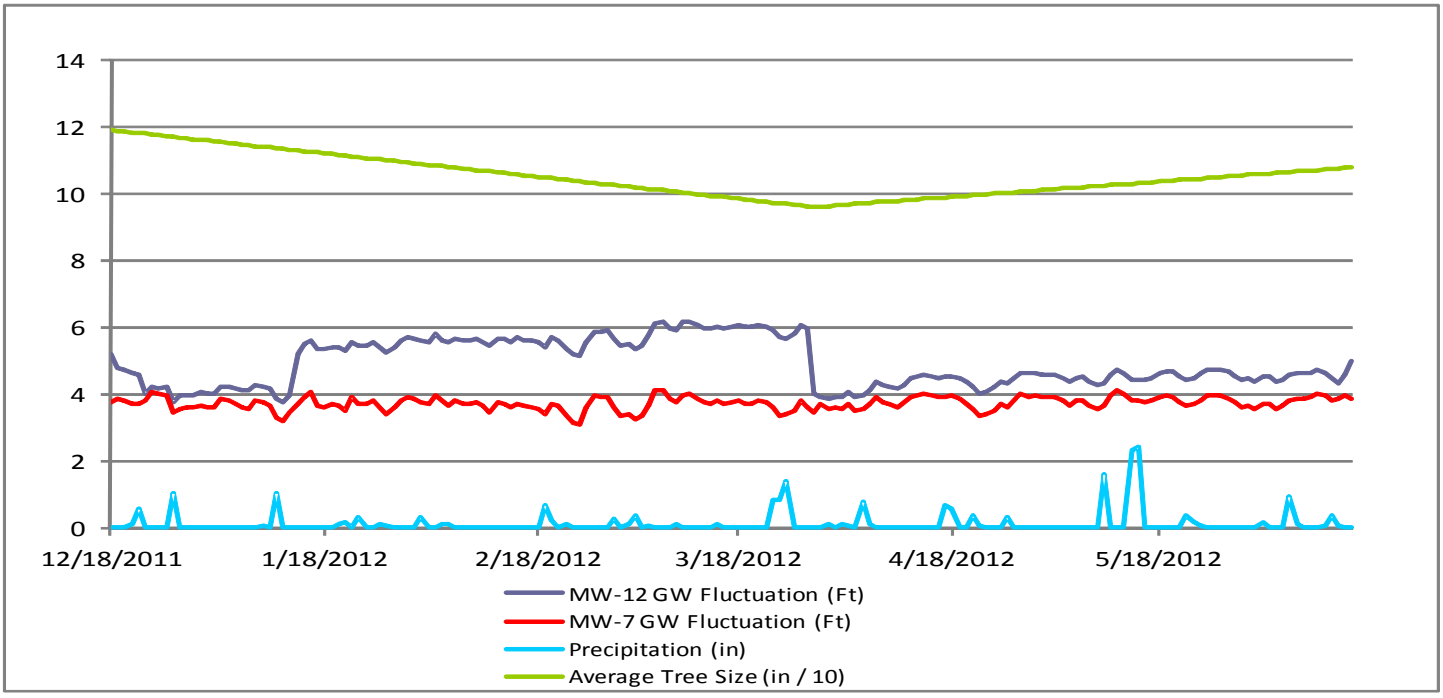
DATE	BY	REV.	DESCRIPTION

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

SCALE: 1" = 100'
DATE: 9/23/12
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 – June 15, 2012





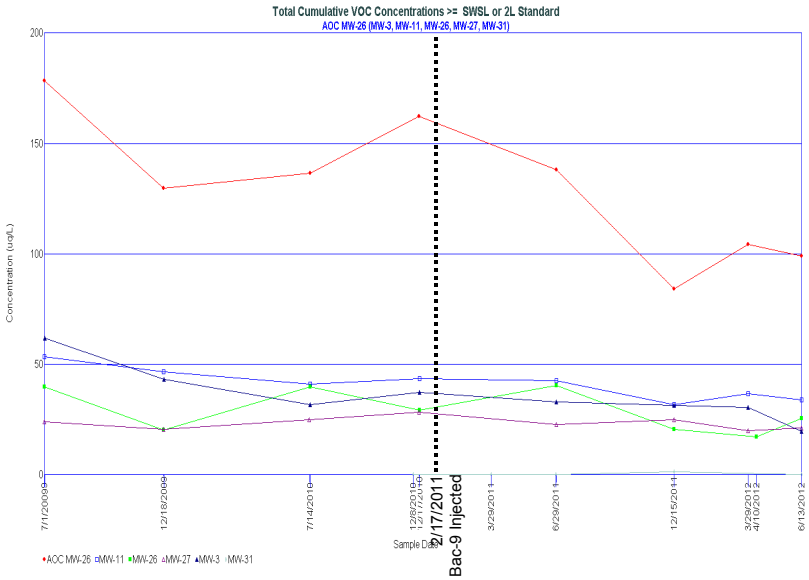
Data Sources:

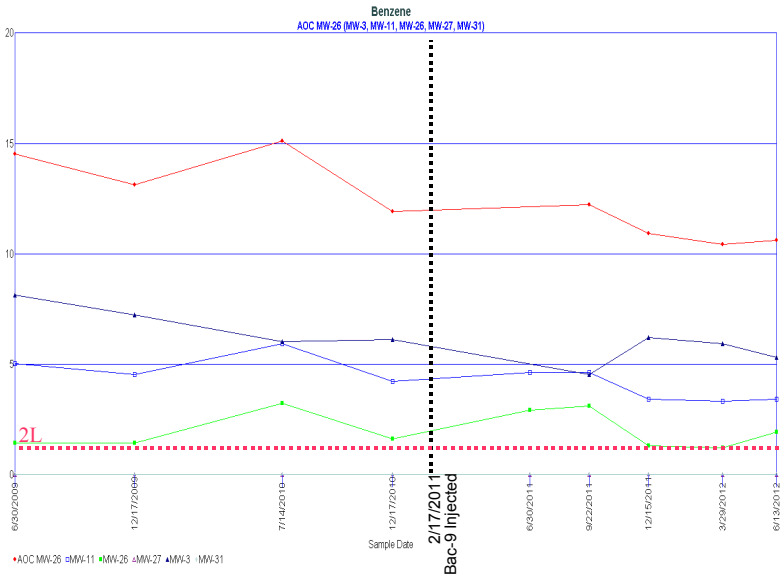
GW = Dedicated pressure transducers. Recorded daily.

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

Tree Size = Field measurements (Height + width + trunk circumferance) of ten designated sample trees. Recorded quarterly.

Figure 4
Total VOCs and Benzene Concentrations Pre/Post Injection Comparison in AOC MW-26
June 30, 2009 – June 13, 2012

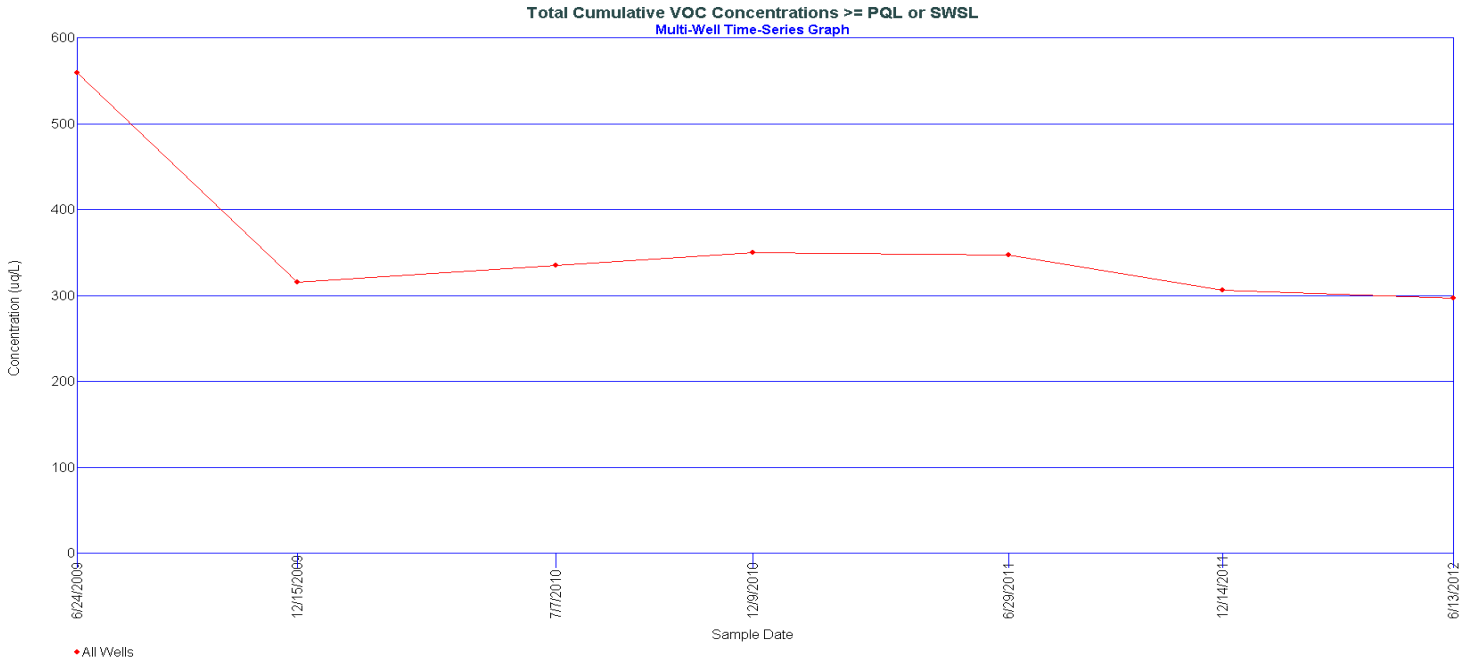


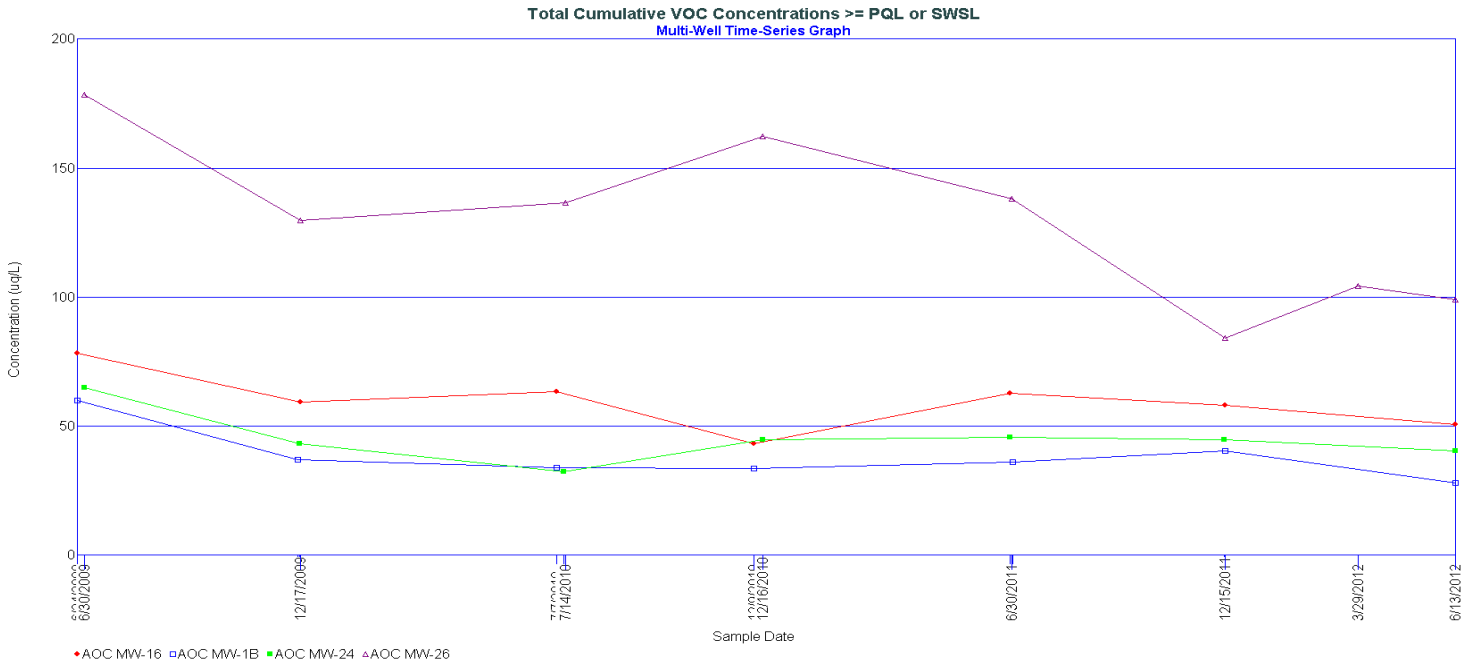


Total VOCs & Benzene Concentrations Pre/Post Injection Comparison in AOC MW-26

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)		June 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	19.30	5.30	-24.01	-1.55	-55	-23
Up	MW-11	53.28	5.00	46.25	4.50	40.81	5.90	43.20	4.20	45.89	4.90	33.50	3.40	-12.39	-1.50	-27	-31
Up	MW-27	23.70	23.70	20.20	0.00	24.60	0.00	28.00	0.00	24.13	5.93	20.90	0.00	-3.23	-5.93	-13	0
Subtotal Upgradient		138.64	36.80	109.48	11.70	96.91	11.90	108.24	10.30	113.32	17.68	73.70	8.70	-39.62	-8.98	-24	-26
Down	MW-26	39.40	1.40	20.00	1.40	39.50	3.20	29.00	1.60	31.98	1.90	25.20	1.90	-6.78	0.00	-21	0
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	25.20	1.90	-6.78	0.00	-21	0
Up&Down Gradient Total		178.04	38.20	129.48	13.10	136.41	15.10	137.24	11.90	145.29	19.58	98.90	10.60	-46.39	-8.98	-32	-22

Figure 5
Time-Series Graphs of VOC Concentrations
June 24, 2009 to June 15, 2012

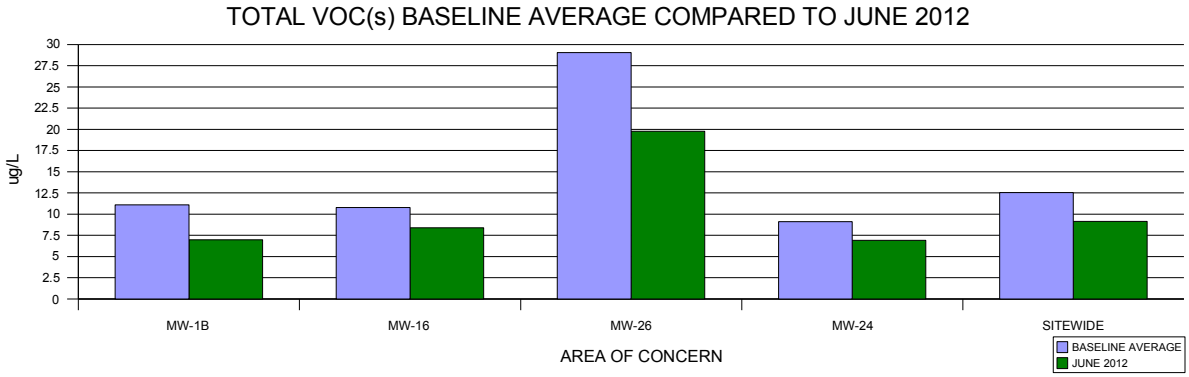




AOC MW-1B (MW-1,MW-1B,MW-18,MW-19)
AOC MW-16 (MW-5,MW-10,MW-16,MW-32,MW-33,MW-34)
AOC MW-24 (MW-7*,MW-12,MW-12D,MW-24,MW-25)
AOC MW-26 (MW-3,MW-11,MW-26,MW-27,MW-31)

* = 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 June 2012



AOC ID	WELL ID	TOTAL VOC(s) BASELINE AVERAGE (June 2009-Dec. 2010) (ug/l)	TOTAL VOC(s) LATEST June 2012 (ug/l)	DIFFERENCE BETWEEN LATEST AND BASELINE (ug/L)	DIFFERENCE BETWEEN LATEST AND BASELINE (%)
MW-1B	MW-1	25.22	16.40	-8.82	-35
	MW-1A	NS	NS	NA	NA
	MW-1B	15.66	11.50	-4.16	-27
	MW-18	0.00	0.00	0.00	0
	MW-19	3.48	0.00	-3.48	-100
	AOC AVG	11.09	6.98	-4.12	-37
MW-16	MW-5	18.39	15.20	-3.19	-17
	MW-10	2.17	1.60	-0.57	-26
	MW-16	44.14	33.59	-10.55	-24
	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	8.40	-2.39	-22
MW-24	MW-7	12.69	NS	NA	NA
	MW-12	30.94	27.63	-3.31	-11
	MW-12D	0.00	0.00	0.00	-0
	MW-24	1.56	0.00	-1.56	-100
	MW-25	0.30	0.00	-0.30	-100
	AOC AVG	9.10	6.91	-2.19	-24
MW-26	MW-3	43.31	19.30	-24.01	-55
	MW-11	45.89	33.50	-12.39	-27
	MW-26	31.98	25.20	-6.78	-21
	MW-27	24.13	20.90	-3.23	-13
	MW-31	0.00	0.00	0.00	0
	AOC AVG	29.06	19.78	-9.28	-32
	MW-2	27.19	27.19	0.00	0
	MW-4R	25.00	19.60	-5.40	-22
	MW-6	0.00	0.00	0.00	0
	MW-9	18.51	10.40	-8.11	-44
	MW-13	0.00	0.00	0.00	0
	MW-14	11.93	11.20	-0.73	-6
	MW-15	12.83	10.50	-2.33	-18
	MW-17	2.27	0.00	-2.27	-100
	MW-20	0.59	0.00	-0.59	-100
	MW-21	0.28	0.00	-0.28	-100
	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	9.15	-3.40	-27

NS = Not sampled as exempt

Tables

Table 1
Sampling and Analysis Summary
June 12-15, 2012

		App. I		MNA														App. II														
Constituent	Reason Not Sampled	VOCs	Total Metals	VFA	Hydrogen	Methane	Ethene/Ethane	Alkalinity	Sulfate	Sulfide	Chloride	TOC	COD	BOD	Iron	Nitrate	Carbon Dioxide	4,4'-DDD	Dieldrin	beta-BHC	Heptachlor	Aldrin	Endrin	1,2,4-Trichlorobenzene	Naphthalene	bis(2-Ethylhexyl)phthalate	1,4-Naphthoquinone	4-Bromophenylphenyl ether	Cyanide (total)	Sulfide	Mercury (Total)	Mercury (Dissolved)
Laboratory		PACE	PACE	PACE	PACE	ENCO	PACE	PACE	PACE	PACE	PACE	PACE	PACE	PACE	PACE	PACE	Field	ENCO	ENCO	ENCO	ENCO	ENCO	ENCO	PACE	PACE	ENCO	ENCO	ENCO	ENCO	PACE	ENCO	ENCO
Method		Lab EPA 8260B	Lab EPA 6000/7000	AM23G	AM20GAX	RSK-175	AM20GAX	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	Hach Kit	Lab EPA 8081B	Lab EPA 8081B	Lab EPA 8081B	Lab EPA 8081B	Lab EPA 8081B	Lab EPA 8081B	Lab EPA 8260B	Lab EPA 8260B	Lab EPA 8270D	Lab EPA 8270D	Lab EPA 8270D	Lab EPA 9014	Lab SM18 4500-S D	Lab EPA 7470	Lab EPA 7470
MW-1		x	x																													
MW-1A	Dry																															
MW-1B		x	x																													
MW-2		x	x															x	x													
MW-3		x	x					x	x	x	x	x	x	x																		
MW-4R		x	x																													
MW-5		x	x			x		x	x	x	x	x	x		x	x	x												x			
MW-6		x	x			x		x	x	x	x	x	x		x	x	x									x					x	
MW-7	E																															
MW-9		x	x															x								x						
MW-10		x	x																										x	x		
MW-11		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							
MW-12D		x	x			x		x	x	x	x	x	x		x	x	x				x								x			
MW-13		x	x																										x			
MW-14		x	x															x			x	x	x							x		
MW-15		x	x																										x		x	x
MW-16		x	x			x		x	x	x	x	x	x		x	x	x															
MW-17		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	x	x	x	x	x	x	x	x	x	
MW-19		x	x																													
MW-20		x	x																													
MW-21		x	x																												x	
MW-22		x	x																													
MW-23		x	x																													
MW-24		x	x			x		x	x	x	x	x	x		x	x	x	x			x											
MW-25		x	x			x		x	x	x	x	x	x		x	x	x															
MW-26		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															
MW-31		x	x			x		x	x	x	x	x	x	x	x	x	x												x			
MW-32		x	x																												x	
MW-33		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															
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
E = Exempt from sampling this event per DIN:14150

Table 2
Detections that Attain or are Above SWSL, GWP, 2L or 2B (Appendix I)
June 12-15, 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	6/15/12	3.9	ug/L	0.33	1	6				
MW-1	**Benzene**	**6/15/12**	**5.2**	**ug/L**	**0.25**	**1**	**1**			**4.2**	**L &/or LFG**
MW-1	cis-1,2-Dichloroethene	6/15/12	7.3	ug/L	0.19	5	70				
MW-1	Cobalt	6/15/12	28.5	ug/L	5	10			70		
MW-1	Zinc	6/15/12	19	ug/L	10	10	1050				
MW-1B	1,4-Dichlorobenzene	6/15/12	2.6	ug/L	0.33	1	6				
MW-1B	**Benzene**	**6/15/12**	**3.1**	**ug/L**	**0.25**	**1**	**1**			**2.1**	**L &/or LFG**
MW-1B	cis-1,2-Dichloroethene	6/15/12	5.8	ug/L	0.19	5	70				
MW-1B	Cobalt	6/15/12	20.8	ug/L	5	10			70		
MW-1B	Vanadium	6/15/12	5.8 j	ug/L	5	25			3.5	2.3	
MW-1B	Zinc	6/15/12	32.8	ug/L	10	10	1050				
MW-2	1,4-Dichlorobenzene	6/15/12	4.3	ug/L	0.33	1	6				
MW-2	Barium	6/15/12	155	ug/L	5	100	700				
MW-2	**Benzene**	**6/15/12**	**2.5**	**ug/L**	**0.25**	**1**	**1**			**1.5**	**L &/or LFG**
MW-2	cis-1,2-Dichloroethene	6/15/12	18.2	ug/L	0.19	5	70				
MW-2	Cobalt	6/15/12	801	ug/L	5	10			70	731	
MW-2	Trichloroethene	6/15/12	1.1	ug/L	0.47	1	3				
MW-2	**Vinyl chloride**	**6/15/12**	**1.1**	**ug/L**	**0.62**	**1**	**0.03**			**1.07**	**L &/or LFG**
MW-2	Zinc	6/15/12	21.3	ug/L	10	10	1050				
MW-3	1,4-Dichlorobenzene	6/13/12	4.5	ug/L	0.33	1	6				
MW-3	**Benzene**	**6/13/12**	**5.3**	**ug/L**	**0.25**	**1**	**1**			**4.3**	**L &/or LFG**
MW-3	cis-1,2-Dichloroethene	6/13/12	6.9	ug/L	0.19	5	70				
MW-3	Cobalt	6/13/12	16.4	ug/L	5	10			70		
MW-3	Ethylbenzene	6/13/12	1.4	ug/L	0.3	1	550				
MW-3	Toluene	6/13/12	1.2	ug/L	0.26	1	1000				
MW-4R	1,4-Dichlorobenzene	6/12/12	3.7	ug/L	0.33	1	6				
MW-4R	Barium	6/12/12	116	ug/L	5	100	700				
MW-4R	**Benzene**	**6/12/12**	**1.9**	**ug/L**	**0.25**	**1**	**1**			**0.9**	**L &/or LFG**
MW-4R	cis-1,2-Dichloroethene	6/12/12	14	ug/L	0.19	5	70				
MW-4R	Cobalt	6/12/12	126	ug/L	5	10			70	56	
MW-5	1,4-Dichlorobenzene	6/13/12	1.8	ug/L	0.33	1	6				
MW-5	Barium	6/13/12	104	ug/L	5	100	700				
MW-5	**Benzene**	**6/13/12**	**2.9**	**ug/L**	**0.25**	**1**	**1**			**1.9**	**L &/or LFG**
MW-5	Beryllium	6/13/12	1.8	ug/L	1	1			4		
MW-5	Chromium	6/13/12	41.5	ug/L	5	10	50				
MW-5	cis-1,2-Dichloroethene	6/13/12	10.5	ug/L	0.19	5	70				
MW-5	Cobalt	6/13/12	10.6	ug/L	5	10			70		
MW-5	Copper	6/13/12	16.8	ug/L	5	10	1000				
MW-5	Vanadium	6/13/12	31.6	ug/L	5	25			3.5	28.1	

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-5	Zinc	6/13/12	91.7	ug/L	10	10	1050				
MW-6	Cobalt	6/14/12	16.8	ug/L	5	10			70		
MW-6	Zinc	6/14/12	10.9	ug/L	10	10	1050				
MW-9	Barium	6/14/12	107	ug/L	5	100	700				
MW-9	cis-1,2-Dichloroethene	6/14/12	10.4	ug/L	0.19	5	70				
MW-9	Cobalt	6/14/12	53	ug/L	5	10			70		
MW-9	Zinc	6/14/12	10.8	ug/L	10	10	1050				
MW-10	**Benzene**	**6/14/12**	**1.6**	**ug/L**	**0.25**	**1**	**1**			**0.6**	**L &/or LFG**
MW-11	**1,4-Dichlorobenzene**	**6/13/12**	**7.4**	**ug/L**	**0.33**	**1**	**6**			**1.4**	**L &/or LFG**
MW-11	**Benzene**	**6/13/12**	**3.4**	**ug/L**	**0.25**	**1**	**1**			**2.4**	**L &/or LFG**
MW-11	cis-1,2-Dichloroethene	6/13/12	22.7	ug/L	0.19	5	70				
MW-11	Cobalt	6/13/12	47.4	ug/L	5	10			70		
MW-11	Vanadium	6/13/12	5.3 j	ug/L	5	25			3.5	1.8	
MW-11	Zinc	6/13/12	21.9	ug/L	10	10	1050				
MW-12	1,2-Dichloroethane	6/14/12	0.16 j	ug/L	0.12	1	0.38				
MW-12	**1,4-Dichlorobenzene**	**6/14/12**	**7.1**	**ug/L**	**0.33**	**1**	**6**			**1.1**	**L &/or LFG**
MW-12	Barium	6/14/12	103	ug/L	5	100	700				
MW-12	**Benzene**	**6/14/12**	**5.4**	**ug/L**	**0.25**	**1**	**1**			**4.4**	**L &/or LFG**
MW-12	cis-1,2-Dichloroethene	6/14/12	11.8	ug/L	0.19	5	70				
MW-12	Cobalt	6/14/12	49.2	ug/L	5	10			70		
MW-12	**Tetrachloroethene**	**6/14/12**	**0.97 j**	**ug/L**	**0.46**	**1**	**0.7**			**0.27**	**L &/or LFG**
MW-12	Trichloroethene	6/14/12	2.2	ug/L	0.47	1	3				
MW-12	Zinc	6/14/12	18.2	ug/L	10	10	1050				
MW-14	1,4-Dichlorobenzene	6/15/12	2.1	ug/L	0.33	1	6				
MW-14	cis-1,2-Dichloroethene	6/15/12	9.1	ug/L	0.19	5	70				
MW-14	Cobalt	6/15/12	228	ug/L	5	10			70	158	
MW-14	Zinc	6/15/12	20.9	ug/L	10	10	1050				
MW-15	**Benzene**	**6/14/12**	**2.3**	**ug/L**	**0.25**	**1**	**1**			**1.3**	**L &/or LFG**
MW-15	cis-1,2-Dichloroethene	6/14/12	8.2	ug/L	0.19	5	70				
MW-15	Cobalt	6/14/12	14.8	ug/L	5	10			70		
MW-16	1,1-Dichloroethane	6/14/12	8.4	ug/L	0.32	5	70				
MW-16	**1,2-Dichloropropane**	**6/14/12**	**0.79 j**	**ug/L**	**0.27**	**1**	**0.51**			**0.28**	**L &/or LFG**
MW-16	1,4-Dichlorobenzene	6/14/12	1.8	ug/L	0.33	1	6				
MW-16	**Benzene**	**6/14/12**	**2.2**	**ug/L**	**0.25**	**1**	**1**			**1.2**	**L &/or LFG**
MW-16	cis-1,2-Dichloroethene	6/14/12	15.7	ug/L	0.19	5	70				
MW-16	Cobalt	6/14/12	30.5	ug/L	5	10			70		
MW-16	**Tetrachloroethene**	**6/14/12**	**2.1**	**ug/L**	**0.46**	**1**	**0.7**			**1.4**	**L &/or LFG**
MW-16	Trichloroethene	6/14/12	2.6	ug/L	0.47	1	3				
MW-16	Zinc	6/14/12	13.8	ug/L	10	10	1050				

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-17	Cobalt	6/15/12	17.7	ug/L	5	10			70		
MW-23	Vanadium	6/14/12	6.3 j	ug/L	5	25			3.5	2.8	
MW-23	Zinc	6/14/12	10.2	ug/L	10	10	1050				
MW-24	Vanadium	6/13/12	6.2 j	ug/L	5	25			3.5	2.7	
MW-24	Zinc	6/13/12	12.1	ug/L	10	10	1050				
MW-26	1,4-Dichlorobenzene	6/13/12	5.2	ug/L	0.33	1	6				
MW-26	**Benzene**	**6/13/12**	**1.9**	**ug/L**	**0.25**	**1**	**1**			**0.9**	**L &/or LFG**
MW-26	cis-1,2-Dichloroethene	6/13/12	18.1	ug/L	0.19	5	70				
MW-26	Cobalt	6/13/12	51.1	ug/L	5	10			70		
MW-26	Zinc	6/13/12	14.9	ug/L	10	10	1050				
MW-27	cis-1,2-Dichloroethene	6/13/12	20.9	ug/L	0.19	5	70				
MW-27	Zinc	6/13/12	10	ug/L	10	10	1050				
MW-32	Zinc	6/12/12	16.6	ug/L	10	10	1050				
MW-33	Cobalt	6/13/12	19.9	ug/L	5	10			70		
MW-33	Copper	6/13/12	15.4	ug/L	5	10	1000				
MW-33	Vanadium	6/13/12	5.1 j	ug/L	5	25			3.5	1.6	
MW-33	Zinc	6/13/12	11.6	ug/L	10	10	1050				

[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)
June 12-15, 2012

Sample ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [2]	SWSL [3]	2L [4]	GWP [5]	Exceedance
MW-12	Naphthalene	6/14/12	0.6 j	ug/L	0.24	10	21		
MW-17	Mercury Total	6/15/12	0.265 j	ug/L	0.17	0.2	1.05		
MW-21	Mercury Total	6/14/12	0.233 j	ug/L	0.17	0.2	1.05		

[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
j = The reported value is estimated & between the laboratory MDL & the SWSL,
Adjusted for actual sample preparation data and moisture content
BOLD = Concentration >2L, or 2B Standard

Table 4
Hydrologic Properties at Monitoring Well Locations
June 12-15, 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	0.476	7	N67W	24.29	980.19	UC
MW-12	n/a	28	0.051	n/a	S27W	53.27	954.08	UC
MW-16	8.72E-04	17	0.033	177	S24E	31.17	1006.39	UC
MW-17	n/a	17	0.242	n/a	N45W	17.62	973.54	UC
MW-21	3.77E-03	28	0.366	5101	N40W	31.82	958.18	UC
MW-22	6.04E-04	28	0.213	475	N56W	15.44	943.53	UC
MW-23	9.83E-04	28	0.272	990	N35W	17.64	932.84	UC
MW-24	1.33E-02	28	0.046	2240	S73W	30.52	943.52	UC
MW-31	n/a	28	0.018	n/a	S28W	21.63	963.79	UC
MW-33	n/a	28	0.183	n/a	S28E	13.64	993.76	UC
MW-34	n/a	28	0.022	n/a	S49E	8.39	1006.21	UC
Minimum	3.70E-006	17	0.018	7	-	8.39	932.84	-
Average	3.26E-003	26	0.175	1498	-	24.13	968.73	-
Maximum	1.33E-002	28	0.476	5101	-	53.27	1006.39	-
MW-1	5.60E-05	10	0.253	147	N04W	36.38	1044.16	UC/UBR
MW-3	3.90E-06	10	0.129	5	S20W	26.21	998.52	UC/UBR
MW-4R	4.90E-04	10	0.032	162	S31W	16.28	996.36	UC/UBR
MW-5	6.40E-05	28	0.046	11	S28E	42.19	1009.07	UC/UBR
MW-14	n/a	10	1.001	n/a	N50W	38.97	958.47	UC/UBR
MW-15	n/a	10	0.254	n/a	N43W	23.91	999.53	UC/UBR
Minimum	3.90E-06	10	0.032	5	-	16.28	958.47	-
Average	1.53E-04	13	0.286	81	-	30.66	1001.02	-
Maximum	4.90E-04	28	1.001	162	-	42.19	1044.16	-
MW-1B	n/a	10	0.119	n/a	N04W	47.31	1035.25	UBR
MW-6	2.40E-05	10	0.064	16	S81W	26.27	980.48	UBR
MW-7	1.60E-06	10	0.127	2	S21W	41.57	967.67	UBR
MW-9	n/a	10	0.088	n/a	S22E	12.01	984.26	UBR
MW-11	n/a	10	0.150	n/a	S27W	41.47	970.49	UBR
MW-13	n/a	10	0.217	n/a	S73W	40.08	964.48	UBR
MW-19	1.92E-06	10	0.134	3	N52W	53.77	1017.71	UBR
MW-20	5.49E-05	10	0.024	14	S89W	40.28	1006.64	UBR
MW-25	5.41E-05	10	0.073	41	S81W	29.62	952.31	UBR
MW-26	1.16E-04	10	0.048	58	S29W	26.16	964.53	UBR
MW-27	2.83E-05	10	0.079	23	S05E	19.81	972.38	UBR
MW-32	n/a	10	0.123	n/a	S03E	31.46	993.80	UBR
Minimum	1.60E-06	10	0.024	2	-	12.01	952.31	-
Average	4.01E-05	10	0.104	22	-	34.15	984.17	-
Maximum	1.16E-04	10	0.217	58	-	53.77	1035.25	-
MW-10	n/a	10	0.053	n/a	n/a	37.91	1002.89	LBR
MW-12D	n/a	10	0.099	n/a	n/a	61.75	946.71	LBR
MW-18	1.19E-04	10	0.302	n/a	n/a	54.52	1029.81	LBR
Minimum	1.19E-04	10	0.053	-	-	37.91	946.71	-
Average	1.19E-04	10	0.151	-	-	51.39	993.14	-
Maximum	1.19E-04	10	0.302	-	-	61.75	1029.81	-

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 June 12-15, 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
June 12-15, 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	Clear	
MW-1A	No	Yes	Yes	Yes	Yes	Yes	na	Dry
MW-1B	Yes	Yes	Yes	Yes	Yes	Yes	Clear	
MW-2	Yes	Yes	Yes	Yes	Yes	Yes	Slight	
MW-3	Yes	Yes	Yes	Yes	Yes	Yes	322	
MW-4R	Yes	Yes	Yes	Yes	Yes	Yes	Clear	
MW-5	Yes	Yes	Yes	Yes	Yes	Yes	Clear	
MW-6	Yes	Yes	Yes	Yes	Yes	Yes	33.5	
MW-7	Yes	Yes	Yes	Yes	Yes	Yes	na	Phytoremediation transducer data downloaded
MW-9	Yes	Yes	Yes	Yes	Yes	Yes	Clear	
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	11.3	
MW-12	Yes	Yes	Yes	Yes	Yes	Yes	8.3	Phytoremediation transducer data downloaded
MW-12D	Yes	Yes	Yes	Yes	Yes	Yes	11.5	
MW-13	Yes	Yes	Yes	Yes	Yes	Yes	10.9	
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	91.1	
MW-17	Yes	Yes	Yes	Yes	Yes	Yes	Clear	
MW-18	Yes	Yes	Yes	Yes	Yes	Yes	83.8	
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	Moderate	
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	Clear	
MW-26	Yes	Yes	Yes	Yes	Yes	Yes	Clear	
MW-27	Yes	Yes	Yes	Yes	Yes	Yes	Clear	
MW-31	Yes	Yes	Yes	Yes	Yes	Yes	Slight	
MW-32	Yes	Yes	Yes	Yes	Yes	Yes	Clear	
MW-33	Yes	Yes	Yes	Yes	Yes	Yes	Slight	
MW-34	Yes	Yes	Yes	Yes	Yes	Yes	Slight	
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
June 12-15, 2012

Parameter	Water Depth	Water Elevation	TOC Elevation	Temp.	ORP	DO	pH	Specific Conductance	TDS	Turbidity
Units	**ft (btoc)**	**ft (amsl)**	**ft (amsl)**	**C**	**mV**	**mg/L**	**SU**	**umhos/cm**	**mg/L**	**Visual or NTU**
MW-1	36.38	1044.16	1080.54	16.8	-41	0.4	6.47	462	230	Clear
MW-1B	47.31	1035.25	1082.56	16.5	215	3.6	5.51	70	30	Clear
MW-2	24.29	980.19	1004.48	14.8	10	0.7	5.91	472	235	Slight
MW-3	26.21	998.52	1024.73	16.3	-9	0.1	5.95	282	140	322
MW-4R	16.28	996.36	1012.64	16.4	-83	0.3	6.70	872	431	Clear
MW-5	42.19	1009.07	1051.26	16.1	-66	0.9	6.41	340	170	26.2
MW-6	30.31	980.48	1010.79	16.9	183	0.7	6.89	401	200	33.5
MW-7	41.57	967.67	1009.24	NR	NR	NR	NR	NR	NR	NR
MW-9	12.01	984.26	996.27	15.3	103	1.2	6.89	622	307	Clear
MW-10	37.91	1002.89	1040.80	16.1	-52	1.1	7.36	400	200	Clear
MW-11	41.47	970.49	1011.96	17.0	13	1.8	6.06	470	230	11.3
MW-12	53.27	954.08	1007.35	16.4	141	1.7	5.71	170	80	8.3
MW-12D	61.75	946.71	1008.46	16.6	-82	0.1	7.21	723	363	11.5
MW-13	40.08	964.48	1004.56	17.5	76	1.1	6.62	191	80	10.9
MW-14	38.97	958.47	997.44	14.5	148	1.1	5.58	682	340	Slight
MW-15	23.91	999.53	1023.44	15.5	47	0.9	6.52	440	220	Clear
MW-16	31.17	1006.39	1037.56	16.0	321	0.9	5.71	82	40	91.1
MW-17	17.62	973.54	991.16	14.4	323	2.1	5.22	61	30	Clear
MW-18	54.52	1029.81	1084.33	16.8	307	3.9	6.99	38	19	83.8
MW-19	53.77	1017.71	1071.48	15.9	282	2.6	6.53	82	40	Clear
MW-20	40.28	1006.64	1046.92	14.6	91	1.6	6.48	60	20	Clear
MW-21	31.82	958.18	990.00	14.7	242	2.1	5.46	40	20	Clear
MW-22	15.44	943.53	958.97	14.1	304	5.9	5.21	30	10	Moderate
MW-23	17.64	932.84	950.48	13.8	307	6.6	5.31	70	30	Slight
MW-24	30.52	943.52	974.04	15.3	392	2.1	6.07	180	90	107
MW-25	29.62	952.31	981.93	14.9	301	0.8	6.08	100	50	13.2
MW-26	26.16	964.53	990.69	16.7	92	0.9	6.02	410	200	17.1
MW-27	19.81	972.38	992.19	18.2	307	4.8	6.37	280	140	19.2
MW-31	21.63	963.79	985.42	15.7	308	1.3	5.48	110	50	95.4
MW-32	31.46	993.80	1025.26	15.1	233	1.2	6.82	90	50	11.4
MW-33	13.64	993.76	1007.40	14.8	123	5.8	5.92	90	40	625
MW-34	8.39	1006.21	1014.60	14.5	113	6.1	6.51	80	40	207
Minimum	8.39	932.84	950.48	13.8	-83	0.1	5.21	30	10	Clear
Average	31.79	982.86	1014.65	15.75	150	2.1	6.19	271	133	Slight
Maximum	61.75	1044.16	1084.33	18.2	392	6.6	7.36	872	431	625
SW-3	-	-	-	21.3	16	7	6.89	90	40	Clear
SW-4R	-	-	-	19.9	13	6.8	6.92	80	40	Clear
SW-5	-	-	-	20.7	12	6.1	6.98	80	30	Clear
SW-6	-	-	-	21.3	11	5.9	7.03	80	30	Clear
Minimum	-	-	-	19.9	11	5.9	6.89	80	30	Clear
Average	-	-	-	20.8	13	6.5	6.96	83	35	Clear
Maximum	-	-	-	21.3	16	7	7.03	90	40	Clear

NR = No Reading Attempted

Table 7
MNA Parameter Data Summary
June 13-14, 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
				6/13/12	6/14/12	6/13/12	6/14/12	6/13/12	6/14/12	6/13/12	6/13/12	6/13/12	6/13/12	6/14/12	6/13/12	6/13/12	6/13/12	6/13/12
VFA – Acetic Acid	AM23G	6	ug/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	15	NS	50	52	NS
VFA – Butyric Acid	AM23G	4	ug/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	50	NS	50	49	NS
VFA – Lactic Acid	AM23G	10	ug/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	50	NS	200	110	NS
VFA – Propionic Acid	AM23G	7	ug/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	23	NS	25	18	NS
VFA – Pyruvic Acid	AM23G	33	ug/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<33	NS	150	150	NS
Hydrogen	AM20GAX	0.25	nM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	20	NS	5.4	2	NS
Methane	AM20GAX	0.00043	ug/L	NS	0.0028	4.18	11.8	4.02	8.93	0.000802	2.20	2.93	0.00184	0	0.137	7	0.05	12.4
Ethene	AM20GAX	0.002	ug/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.033	NS	0.017	0.007	NS
Ethane	AM20GAX	0.001	ug/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0052	NS	0.003	0.001	NS
CO2-Dissolved	Field HACH Kit	5	mg/L	NS	>100	>100	>100	80	>100	90	90	>100	>100	30	60	70	70	>100
Alkalinity	SM 2320B	5000	ug/L	156000	9230	197000	76500	368000	29700	28500	20800	374000	110000	1000	3120	1510	1000	154000
Sulfate	EPA 300.0	2000	ug/L	2620	4030	5060	3050	<2000	5840	11800	<2000	4300	15400	5430	<2000	4750	8970	5310
Sulfide	SM 4500-S2D	100	ug/L	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Chloride	SM 4500-Cl-E	5000	ug/L	20900	6070	28600	9800	66300	3780	24000	3320	18400	20700	1030	4060	4480	3880	3390
TOC	SM 5310B	1000	ug/L	14900	7730	16000	26800	19800	11100	7300	7410	14700	3820	2510	7890	1150	<1000	6860
COD	SM 5220D	25000	ug/L	NS	31000	41000	<25000	29000	33000	<25000	<25000	33000	<25000	<25000	<25000	<25000	<25000	26000
BOD	SM5210B	2000	ug/L	5330	NS	<2000	NS	NS	NS	NS	NS	<2000	<2000	NS	<2000	<2000	<2000	NS
Iron	EPA 6010	14	ug/L	NS	991	18000	9700	4400	3000	3080	293	13200	1380	4680	551	5260	2960	60700
Nitrate	EPA 353.2	200	ug/L	NS	2010	20	32.9	44.3	143	297	781	20	358	73.4	494	135	202	20
Temperature	Field Instrument	0	C	16.3	16.9	17.0	16.4	16.6	16.0	15.3	14.9	16.7	18.2	16.8	15.7	15.1	14.5	16.1
ORP	Field Instrument	-900	mV	-9	183	13	141	-82	321	392	301	92	307	307	308	233	113	-66
DO	Field Instrument	0	mg/L	0.1	0.7	1.8	1.7	0.1	0.9	2.1	0.8	0.9	4.8	3.9	1.3	1.2	6.1	0.9
pH	Field Instrument	0	SU	5.95	6.89	6.06	5.71	7.21	5.71	6.07	6.08	6.02	6.37	6.99	5.48	6.82	6.51	6.41
Sp. Conductance	Field Instrument	0	us/cm	282	401	170	170	723	82	180	100	410	280	38	110	90	80	340
Turbidity	Field Instrument	0	NTU	322	33.5	11.3	8.3	11.5	91.1	107	13.2	17.1	19.2	83.8	95.4	625	207	26.2

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 = CO2 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
March 29, 2012 and June 15, 2012

Tree ID	Date Planted	Mar 29, 12				Notes	Jun 15, 12				Notes	March 29, 12 compared to June 15, 12			
		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	125	66	2	193		132.0	109.2	2.0	243		7	43	0.00	50
2	5/25/10	0	0	2	2	AD	0.0	0.0	2.0	2	AD	0	0	0.30	0
3	5/25/10	120	36	4	160		85.2	57.6	3.8	147		-35	22	0.00	-13
4	5/25/10	124	41	4	169		110.4	64.8	4.2	179		-14	24	0.30	11
5	5/25/10	54	16	2	72		42.6	43.8	2.0	88		-11	28	0.00	16
6	5/25/10	36	12	2	50		21.8	36.4	2.3	60		-14	24	0.00	10
7	5/25/10	18	13	2	33		27.6	26.0	2.0	56		10	13	0.20	23
8	5/25/10	80	26	2	108		105.6	43.8	4.4	154		26	18	2.10	46
9	5/25/10	68	20	2	90		73.2	28.8	2.2	104		5	9	0.10	14
10	5/25/10	70	12	2	84	AD	24.0	18.0	2.4	44	Still alive	-46	6	0.00	-40
Min.	-	0	0	2	1.7	-	0	0	2	2	-	-46	0	0.00	-40
Avg.	-	70	24	2	96	-	62	43	3	108	-	-7	19	0.30	12
Max.	-	125	66	4	193	-	132	109	4	243	-	26	43	2.10	50

NOTES:
AD = Appears dead

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

July 10, 2012

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

RE: Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Dear Mr. Pfohl:
Enclosed are the analytical results for sample(s) received by the laboratory between June 14, 2012 and June 15, 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

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CERTIFICATIONS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

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
South Carolina Drinking Water Cert. #: 99006003
Virginia Drinking Water Certification #: 00213
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DHH Drinking Water # LA 100031
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460144

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
Virginia Certification #: 00072
West Virginia Certification #: 356
Virgina/VELAP Certification #: 460147

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(704)875-9092

SAMPLE SUMMARY

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92121375001	**MW-4R**	Water	06/12/12 16:30	06/14/12 15:25
92121375002	**MW-5**	Water	06/13/12 13:15	06/14/12 15:25
92121375003	**MW-12D**	Water	06/13/12 16:35	06/14/12 15:25
92121375004	**MW-24**	Water	06/13/12 15:30	06/14/12 15:25
92121375005	**MW-25**	Water	06/13/12 08:05	06/14/12 15:25
92121375006	**MW-32**	Water	06/12/12 15:00	06/14/12 15:25
92121375007	**MW-33**	Water	06/13/12 11:10	06/14/12 15:25
92121375008	**MW-34**	Water	06/13/12 10:05	06/14/12 15:25
92121375009	**MW-33**	Water	06/13/12 11:10	06/14/12 15:25
92121375010	**MW-34**	Water	06/13/12 10:05	06/14/12 15:25
92121375011	**MW-6**	Water	06/14/12 15:00	06/15/12 13:20
92121375012	**MW-12**	Water	06/14/12 15:50	06/15/12 13:20
92121375013	**MW-16**	Water	06/14/12 13:15	06/15/12 13:20
92121375014	**MW-9**	Water	06/14/12 16:30	06/15/12 13:20
92121375015	**MW-10**	Water	06/14/12 08:15	06/15/12 13:20
92121375016	**MW-13**	Water	06/14/12 08:50	06/15/12 13:20
92121375017	**MW-15**	Water	06/14/12 09:30	06/15/12 13:20
92121375018	**MW-19**	Water	06/14/12 10:10	06/15/12 13:20
92121375019	**MW-20**	Water	06/14/12 10:50	06/15/12 13:20
92121375020	**MW-21**	Water	06/14/12 12:00	06/15/12 13:20
92121375021	**MW-22**	Water	06/12/12 14:00	06/15/12 13:20
92121375022	**MW-18**	Water	06/14/12 14:05	06/15/12 13:20
92121375023	**MW-1**	Water	06/15/12 10:35	06/15/12 14:15
92121375024	**MW-1B**	Water	06/15/12 10:00	06/15/12 14:15
92121375025	**MW-2**	Water	06/15/12 09:30	06/15/12 14:15
92121375026	**MW-14**	Water	06/15/12 09:00	06/15/12 14:15
92121375027	**MW-17**	Water	06/15/12 08:15	06/15/12 14:15
92121375028	**SW-3**	Water	06/15/12 11:20	06/15/12 14:15
92121375029	**SW-4R**	Water	06/15/12 10:50	06/15/12 14:15
92121375030	**SW-5**	Water	06/15/12 11:10	06/15/12 14:15
92121375031	**SW-6**	Water	06/15/12 11:35	06/15/12 14:15
92121375032	**EB**	Water	06/15/12 06:40	06/15/12 14:15
92121375033	**FB**	Water	06/15/12 06:50	06/15/12 14:15
92121375034	**TB**	Water	06/15/12 00:00	06/15/12 14:15
92121375035	**MW-23**	Water	06/14/12 11:25	06/15/12 14:15

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SAMPLE ANALYTE COUNT

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92121375001	**MW-4R**	EPA 6010	JMW	15	PASI-A
		EPA 8260	KJM	52	PASI-C
92121375002	**MW-5**	EPA 6010	JMW	16	PASI-A
		EPA 8260	KJM	52	PASI-C
		SM 2320B	AES	1	PASI-A
		SM 4500-S2D	AES	1	PASI-A
		EPA 300.0	SAE	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 4500-Cl-E	JDA	1	PASI-A
		SM 5220D	SMW	1	PASI-A
		SM 5310B	SAE	1	PASI-A
92121375003	**MW-12D**	EPA 6010	JMW	16	PASI-A
		EPA 8260	KJM	52	PASI-C
		SM 2320B	AES	1	PASI-A
		SM 4500-S2D	AES	1	PASI-A
		EPA 300.0	SAE	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 4500-Cl-E	JDA	1	PASI-A
		SM 5220D	SMW	1	PASI-A
		SM 5310B	SAE	1	PASI-A
92121375004	**MW-24**	EPA 6010	JMW	16	PASI-A
		EPA 8260	KJM	52	PASI-C
		SM 2320B	AES	1	PASI-A
		SM 4500-S2D	AES	1	PASI-A
		EPA 300.0	SAE	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 4500-Cl-E	JDA	1	PASI-A
		SM 5220D	SMW	1	PASI-A
		SM 5310B	SAE	1	PASI-A
92121375005	**MW-25**	EPA 6010	JMW	16	PASI-A
		EPA 8260	KJM	52	PASI-C
		SM 2320B	AES	1	PASI-A
		SM 4500-S2D	AES	1	PASI-A
		EPA 300.0	SAE	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 4500-Cl-E	JDA	1	PASI-A
		SM 5220D	SMW	1	PASI-A

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SAMPLE ANALYTE COUNT

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 5310B	SAE	1	PASI-A
92121375006	**MW-32**	EPA 6010	JMW	15	PASI-A
		EPA 8260	KJM	52	PASI-C
92121375007	**MW-33**	EPA 6010	JMW	16	PASI-A
		EPA 8260	KJM	52	PASI-C
92121375008	**MW-34**	EPA 6010	JMW	16	PASI-A
		EPA 8260	KJM	52	PASI-C
92121375009	**MW-33**	SM 2320B	AES	1	PASI-A
		SM 4500-S2D	AES	1	PASI-A
		SM 5210B	LMD	1	PASI-A
		EPA 300.0	SAE	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 4500-Cl-E	JDA	1	PASI-A
		SM 5220D	SMW	1	PASI-A
		SM 5310B	SAE	1	PASI-A
92121375010	**MW-34**	SM 2320B	AES	1	PASI-A
		SM 4500-S2D	AES	1	PASI-A
		SM 5210B	LMD	1	PASI-A
		EPA 300.0	SAE	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 4500-Cl-E	JDA	1	PASI-A
		SM 5220D	SMW	1	PASI-A
		SM 5310B	SAE	1	PASI-A
92121375011	**MW-6**	EPA 6010	JMW	16	PASI-A
		EPA 8260	KJM	52	PASI-C
		SM 2320B	AES	1	PASI-A
		SM 4500-S2D	AES	1	PASI-A
		EPA 300.0	SAE	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 4500-Cl-E	JDA	1	PASI-A
		SM 5220D	SMW	1	PASI-A
		SM 5310B	SAE	1	PASI-A
92121375012	**MW-12**	EPA 6010	JMW	16	PASI-A
		EPA 8260	KJM	68	PASI-C
		SM 2320B	AES	1	PASI-A
		SM 4500-S2D	AES	1	PASI-A
		EPA 300.0	SAE	1	PASI-A

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SAMPLE ANALYTE COUNT

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

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	SMW	1	PASI-A
		SM 5310B	SAE	1	PASI-A
92121375013	**MW-16**	EPA 6010	JMW	16	PASI-A
		EPA 8260	KJM	52	PASI-C
		SM 2320B	AES	1	PASI-A
		SM 4500-S2D	AES	1	PASI-A
		EPA 300.0	SAE	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 4500-Cl-E	JDA	1	PASI-A
		SM 5220D	SMW	1	PASI-A
		SM 5310B	SAE	1	PASI-A
92121375014	**MW-9**	EPA 6010	JMW	15	PASI-A
		EPA 8260	KJM	52	PASI-C
92121375015	**MW-10**	EPA 6010	JMW	15	PASI-A
		EPA 8260	KJM	52	PASI-C
		SM 4500-S2D	AES	1	PASI-A
92121375016	**MW-13**	EPA 6010	JMW	15	PASI-A
		EPA 8260	KJM	52	PASI-C
92121375017	**MW-15**	EPA 6010	JMW	15	PASI-A
		EPA 8260	KJM	52	PASI-C
92121375018	**MW-19**	EPA 6010	JMW	15	PASI-A
		EPA 8260	KJM	52	PASI-C
92121375019	**MW-20**	EPA 6010	JMW	15	PASI-A
		EPA 8260	KJM	52	PASI-C
92121375020	**MW-21**	EPA 6010	JMW	15	PASI-A
		EPA 8260	KJM	52	PASI-C
92121375021	**MW-22**	EPA 6010	JMW	15	PASI-A
		EPA 8260	KJM	52	PASI-C
92121375022	**MW-18**	EPA 6010	JMW	16	PASI-A
		EPA 8260	KJM	68	PASI-C
		SM 2320B	AES	1	PASI-A
		SM 4500-S2D	AES	1	PASI-A
		EPA 300.0	SAE	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 4500-Cl-E	JDA	1	PASI-A

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SAMPLE ANALYTE COUNT

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 5220D	SMW	1	PASI-A
		SM 5310B	SAE	1	PASI-A
92121375023	**MW-1**	EPA 6010	JMW	15	PASI-A
		EPA 8260	KJM	52	PASI-C
92121375024	**MW-1B**	EPA 6010	JMW	15	PASI-A
		EPA 8260	KJM	52	PASI-C
92121375025	**MW-2**	EPA 6010	JMW	15	PASI-A
		EPA 8260	KJM	52	PASI-C
92121375026	**MW-14**	EPA 6010	JMW	15	PASI-A
		EPA 8260	KJM	52	PASI-C
		SM 4500-S2D	AES	1	PASI-A
92121375027	**MW-17**	EPA 6010	JMW	15	PASI-A
		EPA 8260	KJM	52	PASI-C
92121375028	**SW-3**	EPA 6010	JMW	15	PASI-A
		EPA 8260	KJM	52	PASI-C
92121375029	**SW-4R**	EPA 6010	JMW	15	PASI-A
		EPA 8260	KJM	52	PASI-C
92121375030	**SW-5**	EPA 6010	JMW	15	PASI-A
		EPA 8260	KJM	52	PASI-C
92121375031	**SW-6**	EPA 6010	JMW	15	PASI-A
		EPA 8260	KJM	52	PASI-C
92121375032	**EB**	EPA 6010	JMW	15	PASI-A
		EPA 8260	KJM	68	PASI-C
		SM 4500-S2D	AES	1	PASI-A
92121375033	**FB**	EPA 6010	JMW	15	PASI-A
		EPA 8260	KJM	68	PASI-C
92121375034	**TB**	EPA 8260	KJM	68	PASI-C
92121375035	**MW-23**	EPA 6010	JMW	15	PASI-A
		EPA 8260	KJM	52	PASI-C

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-4R **Lab ID: 92121375001** Collected: 06/12/12 16:30 Received: 06/14/12 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	06/16/12 14:15	06/19/12 22:56	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 22:56	7440-38-2	
Barium	**116**	ug/L	100	5.0	1	06/16/12 14:15	06/19/12 22:56	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	06/16/12 14:15	06/19/12 22:56	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	06/16/12 14:15	06/19/12 22:56	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 22:56	7440-47-3	
Cobalt	**126**	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 22:56	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 22:56	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 22:56	7439-92-1	
Nickel	**5.3J**	ug/L	50.0	5.0	1	06/16/12 14:15	06/19/12 22:56	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	06/16/12 14:15	06/19/12 22:56	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 22:56	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	06/16/12 14:15	06/19/12 22:56	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	06/16/12 14:15	06/19/12 22:56	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	06/16/12 14:15	06/19/12 22:56	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		06/22/12 03:31	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		06/22/12 03:31	107-13-1	
Benzene	**1.9**	ug/L	1.0	0.25	1		06/22/12 03:31	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		06/22/12 03:31	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		06/22/12 03:31	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		06/22/12 03:31	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		06/22/12 03:31	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		06/22/12 03:31	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		06/22/12 03:31	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		06/22/12 03:31	56-23-5	
Chlorobenzene	**1.2J**	ug/L	3.0	0.23	1		06/22/12 03:31	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		06/22/12 03:31	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		06/22/12 03:31	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		06/22/12 03:31	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		06/22/12 03:31	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		06/22/12 03:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		06/22/12 03:31	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		06/22/12 03:31	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		06/22/12 03:31	95-50-1	
1,4-Dichlorobenzene	**3.7**	ug/L	1.0	0.33	1		06/22/12 03:31	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		06/22/12 03:31	110-57-6	
1,1-Dichloroethane	**1.5J**	ug/L	5.0	0.32	1		06/22/12 03:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		06/22/12 03:31	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		06/22/12 03:31	75-35-4	
cis-1,2-Dichloroethene	**14.0**	ug/L	5.0	0.19	1		06/22/12 03:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		06/22/12 03:31	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		06/22/12 03:31	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		06/22/12 03:31	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		06/22/12 03:31	10061-01-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-4R **Lab ID: 92121375001** Collected: 06/12/12 16:30 Received: 06/14/12 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-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		06/22/12 03:31	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		06/22/12 03:31	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		06/22/12 03:31	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		06/22/12 03:31	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		06/22/12 03:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		06/22/12 03:31	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		06/22/12 03:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		06/22/12 03:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		06/22/12 03:31	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		06/22/12 03:31	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		06/22/12 03:31	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		06/22/12 03:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		06/22/12 03:31	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		06/22/12 03:31	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		06/22/12 03:31	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		06/22/12 03:31	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		06/22/12 03:31	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		06/22/12 03:31	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		06/22/12 03:31	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		06/22/12 03:31	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		06/22/12 03:31	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		06/22/12 03:31	17060-07-0	
Toluene-d8 (S)	107	%	70-130		1		06/22/12 03:31	2037-26-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-5 **Lab ID: 92121375002** Collected: 06/13/12 13:15 Received: 06/14/12 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	06/16/12 14:15	06/19/12 23:01	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 23:01	7440-38-2	
Barium	**104**	ug/L	100	5.0	1	06/16/12 14:15	06/19/12 23:01	7440-39-3	
Beryllium	**1.8**	ug/L	1.0	1.0	1	06/16/12 14:15	06/19/12 23:01	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	06/16/12 14:15	06/19/12 23:01	7440-43-9	
Chromium	**41.5**	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 23:01	7440-47-3	
Cobalt	**10.6**	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 23:01	7440-48-4	
Copper	**16.8**	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 23:01	7440-50-8	
Iron	**60700**	ug/L	300	50.0	1	06/16/12 14:15	06/19/12 23:01	7439-89-6	
Lead	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 23:01	7439-92-1	
Nickel	**21.9J**	ug/L	50.0	5.0	1	06/16/12 14:15	06/19/12 23:01	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	06/16/12 14:15	06/19/12 23:01	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 23:01	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	06/16/12 14:15	06/19/12 23:01	7440-28-0	
Vanadium	**31.6**	ug/L	25.0	5.0	1	06/16/12 14:15	06/19/12 23:01	7440-62-2	
Zinc	**91.7**	ug/L	10.0	10.0	1	06/16/12 14:15	06/19/12 23:01	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		06/22/12 03:47	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		06/22/12 03:47	107-13-1	
Benzene	**2.9**	ug/L	1.0	0.25	1		06/22/12 03:47	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		06/22/12 03:47	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		06/22/12 03:47	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		06/22/12 03:47	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		06/22/12 03:47	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		06/22/12 03:47	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		06/22/12 03:47	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		06/22/12 03:47	56-23-5	
Chlorobenzene	**0.71J**	ug/L	3.0	0.23	1		06/22/12 03:47	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		06/22/12 03:47	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		06/22/12 03:47	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		06/22/12 03:47	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		06/22/12 03:47	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		06/22/12 03:47	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		06/22/12 03:47	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		06/22/12 03:47	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		06/22/12 03:47	95-50-1	
1,4-Dichlorobenzene	**1.8**	ug/L	1.0	0.33	1		06/22/12 03:47	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		06/22/12 03:47	110-57-6	
1,1-Dichloroethane	**2.5J**	ug/L	5.0	0.32	1		06/22/12 03:47	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		06/22/12 03:47	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		06/22/12 03:47	75-35-4	
cis-1,2-Dichloroethene	**10.5**	ug/L	5.0	0.19	1		06/22/12 03:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		06/22/12 03:47	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		06/22/12 03:47	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		06/22/12 03:47	142-28-9	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-5 **Lab ID: 92121375002** Collected: 06/13/12 13:15 Received: 06/14/12 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								
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		06/22/12 03:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		06/22/12 03:47	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		06/22/12 03:47	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		06/22/12 03:47	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		06/22/12 03:47	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		06/22/12 03:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		06/22/12 03:47	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		06/22/12 03:47	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		06/22/12 03:47	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		06/22/12 03:47	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		06/22/12 03:47	127-18-4	
Toluene	**0.95J**	ug/L	1.0	0.26	1		06/22/12 03:47	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		06/22/12 03:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		06/22/12 03:47	79-00-5	
Trichloroethene	**0.57J**	ug/L	1.0	0.47	1		06/22/12 03:47	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		06/22/12 03:47	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		06/22/12 03:47	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		06/22/12 03:47	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		06/22/12 03:47	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		06/22/12 03:47	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		06/22/12 03:47	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		06/22/12 03:47	1868-53-7	
1,2-Dichloroethane-d4 (S)	110	%	70-130		1		06/22/12 03:47	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		06/22/12 03:47	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**154000**	ug/L	1000	1000	1		06/19/12 14:12		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		06/16/12 14:00	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**5310J**	ug/L	250000	2000	1		06/25/12 10:15	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	ug/L	10000	20.0	1		06/15/12 02:15		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**3390**	ug/L	1000	1000	1		06/26/12 12:57	16887-00-6	
5220D COD	Analytical Method: SM 5220D								
Chemical Oxygen Demand	**26000**	ug/L	25000	25000	1		06/25/12 11:10		

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-5 **Lab ID: 92121375002** Collected: 06/13/12 13:15 Received: 06/14/12 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**6860**	ug/L	1000	1000	1		06/20/12 19:48	7440-44-0	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-12D **Lab ID: 92121375003** Collected: 06/13/12 16:35 Received: 06/14/12 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	06/16/12 14:15	06/19/12 23:06	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 23:06	7440-38-2	
Barium	**6.5J**	ug/L	100	5.0	1	06/16/12 14:15	06/19/12 23:06	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	06/16/12 14:15	06/19/12 23:06	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	06/16/12 14:15	06/19/12 23:06	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 23:06	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 23:06	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 23:06	7440-50-8	
Iron	**4400**	ug/L	300	50.0	1	06/16/12 14:15	06/19/12 23:06	7439-89-6	
Lead	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 23:06	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	06/16/12 14:15	06/19/12 23:06	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	06/16/12 14:15	06/19/12 23:06	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 23:06	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	06/16/12 14:15	06/19/12 23:06	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	06/16/12 14:15	06/19/12 23:06	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	06/16/12 14:15	06/19/12 23:06	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		06/22/12 04:02	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		06/22/12 04:02	107-13-1	
Benzene	**0.35J**	ug/L	1.0	0.25	1		06/22/12 04:02	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		06/22/12 04:02	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		06/22/12 04:02	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		06/22/12 04:02	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		06/22/12 04:02	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		06/22/12 04:02	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		06/22/12 04:02	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		06/22/12 04:02	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		06/22/12 04:02	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		06/22/12 04:02	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		06/22/12 04:02	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		06/22/12 04:02	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		06/22/12 04:02	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		06/22/12 04:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		06/22/12 04:02	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		06/22/12 04:02	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		06/22/12 04:02	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		06/22/12 04:02	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		06/22/12 04:02	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		06/22/12 04:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		06/22/12 04:02	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		06/22/12 04:02	75-35-4	
cis-1,2-Dichloroethene	**0.66J**	ug/L	5.0	0.19	1		06/22/12 04:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		06/22/12 04:02	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		06/22/12 04:02	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		06/22/12 04:02	142-28-9	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-12D **Lab ID: 92121375003** Collected: 06/13/12 16:35 Received: 06/14/12 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								
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		06/22/12 04:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		06/22/12 04:02	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		06/22/12 04:02	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		06/22/12 04:02	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		06/22/12 04:02	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		06/22/12 04:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		06/22/12 04:02	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		06/22/12 04:02	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		06/22/12 04:02	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		06/22/12 04:02	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		06/22/12 04:02	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		06/22/12 04:02	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		06/22/12 04:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		06/22/12 04:02	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		06/22/12 04:02	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		06/22/12 04:02	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		06/22/12 04:02	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		06/22/12 04:02	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		06/22/12 04:02	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		06/22/12 04:02	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		06/22/12 04:02	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		06/22/12 04:02	1868-53-7	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		06/22/12 04:02	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		06/22/12 04:02	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**368000**	ug/L	1000	1000	1		06/19/12 14:12		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		06/16/12 14:00	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	ND	ug/L	250000	2000	1		06/25/12 10:28	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**44.3J**	ug/L	10000	20.0	1		06/15/12 02:45		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**66300**	ug/L	5000	5000	5		06/26/12 13:45	16887-00-6	
5220D COD	Analytical Method: SM 5220D								
Chemical Oxygen Demand	**29000**	ug/L	25000	25000	1		06/25/12 11:10		

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-12D **Lab ID: 92121375003** Collected: 06/13/12 16:35 Received: 06/14/12 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**19800**	ug/L	5000	5000	5		06/26/12 08:06	7440-44-0	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-24 **Lab ID: 92121375004** Collected: 06/13/12 15:30 Received: 06/14/12 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	06/16/12 14:15	06/19/12 23:12	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 23:12	7440-38-2	
Barium	**30.8J**	ug/L	100	5.0	1	06/16/12 14:15	06/19/12 23:12	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	06/16/12 14:15	06/19/12 23:12	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	06/16/12 14:15	06/19/12 23:12	7440-43-9	
Chromium	**7.9J**	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 23:12	7440-47-3	
Cobalt	**8.0J**	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 23:12	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 23:12	7440-50-8	
Iron	**3080**	ug/L	300	50.0	1	06/16/12 14:15	06/19/12 23:12	7439-89-6	
Lead	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 23:12	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	06/16/12 14:15	06/19/12 23:12	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	06/16/12 14:15	06/19/12 23:12	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 23:12	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	06/16/12 14:15	06/19/12 23:12	7440-28-0	
Vanadium	**6.2J**	ug/L	25.0	5.0	1	06/16/12 14:15	06/19/12 23:12	7440-62-2	
Zinc	**12.1**	ug/L	10.0	10.0	1	06/16/12 14:15	06/19/12 23:12	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		06/22/12 04:18	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		06/22/12 04:18	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		06/22/12 04:18	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		06/22/12 04:18	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		06/22/12 04:18	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		06/22/12 04:18	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		06/22/12 04:18	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		06/22/12 04:18	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		06/22/12 04:18	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		06/22/12 04:18	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		06/22/12 04:18	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		06/22/12 04:18	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		06/22/12 04:18	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		06/22/12 04:18	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		06/22/12 04:18	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		06/22/12 04:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		06/22/12 04:18	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		06/22/12 04:18	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		06/22/12 04:18	95-50-1	
1,4-Dichlorobenzene	**0.76J**	ug/L	1.0	0.33	1		06/22/12 04:18	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		06/22/12 04:18	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		06/22/12 04:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		06/22/12 04:18	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		06/22/12 04:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		06/22/12 04:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		06/22/12 04:18	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		06/22/12 04:18	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		06/22/12 04:18	142-28-9	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-24 **Lab ID: 92121375004** Collected: 06/13/12 15:30 Received: 06/14/12 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								
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		06/22/12 04:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		06/22/12 04:18	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		06/22/12 04:18	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		06/22/12 04:18	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		06/22/12 04:18	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		06/22/12 04:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		06/22/12 04:18	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		06/22/12 04:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		06/22/12 04:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		06/22/12 04:18	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		06/22/12 04:18	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		06/22/12 04:18	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		06/22/12 04:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		06/22/12 04:18	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		06/22/12 04:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		06/22/12 04:18	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		06/22/12 04:18	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		06/22/12 04:18	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		06/22/12 04:18	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		06/22/12 04:18	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		06/22/12 04:18	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		06/22/12 04:18	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		06/22/12 04:18	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		06/22/12 04:18	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**28500**	ug/L	1000	1000	1		06/19/12 14:12		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		06/16/12 14:00	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**11800J**	ug/L	250000	2000	1		06/25/12 10:42	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**297J**	ug/L	10000	20.0	1		06/15/12 02:23		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**24000**	ug/L	1000	1000	1		06/26/12 13:01	16887-00-6	
5220D COD	Analytical Method: SM 5220D								
Chemical Oxygen Demand	ND	ug/L	25000	25000	1		06/26/12 10:20		

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-24 **Lab ID: 92121375004** Collected: 06/13/12 15:30 Received: 06/14/12 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**7300**	ug/L	1000	1000	1		06/25/12 18:09	7440-44-0	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-25 **Lab ID: 92121375005** Collected: 06/13/12 08:05 Received: 06/14/12 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	06/16/12 14:15	06/19/12 23:16	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 23:16	7440-38-2	
Barium	**50.9J**	ug/L	100	5.0	1	06/16/12 14:15	06/19/12 23:16	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	06/16/12 14:15	06/19/12 23:16	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	06/16/12 14:15	06/19/12 23:16	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 23:16	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 23:16	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 23:16	7440-50-8	
Iron	**293J**	ug/L	300	50.0	1	06/16/12 14:15	06/19/12 23:16	7439-89-6	
Lead	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 23:16	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	06/16/12 14:15	06/19/12 23:16	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	06/16/12 14:15	06/19/12 23:16	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 23:16	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	06/16/12 14:15	06/19/12 23:16	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	06/16/12 14:15	06/19/12 23:16	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	06/16/12 14:15	06/19/12 23:16	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	**2.4J**	ug/L	100	2.2	1		06/22/12 04:34	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		06/22/12 04:34	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		06/22/12 04:34	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		06/22/12 04:34	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		06/22/12 04:34	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		06/22/12 04:34	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		06/22/12 04:34	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		06/22/12 04:34	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		06/22/12 04:34	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		06/22/12 04:34	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		06/22/12 04:34	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		06/22/12 04:34	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		06/22/12 04:34	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		06/22/12 04:34	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		06/22/12 04:34	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		06/22/12 04:34	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		06/22/12 04:34	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		06/22/12 04:34	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		06/22/12 04:34	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		06/22/12 04:34	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		06/22/12 04:34	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		06/22/12 04:34	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		06/22/12 04:34	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		06/22/12 04:34	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		06/22/12 04:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		06/22/12 04:34	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		06/22/12 04:34	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		06/22/12 04:34	142-28-9	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-25 **Lab ID: 92121375005** Collected: 06/13/12 08:05 Received: 06/14/12 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								
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		06/22/12 04:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		06/22/12 04:34	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		06/22/12 04:34	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		06/22/12 04:34	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		06/22/12 04:34	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		06/22/12 04:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		06/22/12 04:34	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		06/22/12 04:34	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		06/22/12 04:34	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		06/22/12 04:34	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		06/22/12 04:34	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		06/22/12 04:34	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		06/22/12 04:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		06/22/12 04:34	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		06/22/12 04:34	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		06/22/12 04:34	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		06/22/12 04:34	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		06/22/12 04:34	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		06/22/12 04:34	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		06/22/12 04:34	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		06/22/12 04:34	460-00-4	
Dibromofluoromethane (S)	110	%	70-130		1		06/22/12 04:34	1868-53-7	
1,2-Dichloroethane-d4 (S)	114	%	70-130		1		06/22/12 04:34	17060-07-0	
Toluene-d8 (S)	107	%	70-130		1		06/22/12 04:34	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**20800**	ug/L	1000	1000	1		06/19/12 14:12		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		06/16/12 14:00	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	ND	ug/L	250000	2000	1		06/25/12 10:56	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**781J**	ug/L	10000	20.0	1		06/15/12 01:48		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**3320**	ug/L	1000	1000	1		06/26/12 13:01	16887-00-6	
5220D COD	Analytical Method: SM 5220D								
Chemical Oxygen Demand	ND	ug/L	25000	25000	1		06/26/12 10:20		

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-25 **Lab ID: 92121375005** Collected: 06/13/12 08:05 Received: 06/14/12 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**7410**	ug/L	1000	1000	1		06/25/12 18:19	7440-44-0	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-32 **Lab ID: 92121375006** Collected: 06/12/12 15:00 Received: 06/14/12 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	06/16/12 14:15	06/19/12 23:33	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 23:33	7440-38-2	
Barium	**15.0J**	ug/L	100	5.0	1	06/16/12 14:15	06/19/12 23:33	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	06/16/12 14:15	06/19/12 23:33	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	06/16/12 14:15	06/19/12 23:33	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 23:33	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 23:33	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 23:33	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 23:33	7439-92-1	
Nickel	**26.2J**	ug/L	50.0	5.0	1	06/16/12 14:15	06/19/12 23:33	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	06/16/12 14:15	06/19/12 23:33	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 23:33	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	06/16/12 14:15	06/19/12 23:33	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	06/16/12 14:15	06/19/12 23:33	7440-62-2	
Zinc	**16.6**	ug/L	10.0	10.0	1	06/16/12 14:15	06/19/12 23:33	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		06/22/12 04:50	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		06/22/12 04:50	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		06/22/12 04:50	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		06/22/12 04:50	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		06/22/12 04:50	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		06/22/12 04:50	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		06/22/12 04:50	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		06/22/12 04:50	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		06/22/12 04:50	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		06/22/12 04:50	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		06/22/12 04:50	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		06/22/12 04:50	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		06/22/12 04:50	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		06/22/12 04:50	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		06/22/12 04:50	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		06/22/12 04:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		06/22/12 04:50	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		06/22/12 04:50	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		06/22/12 04:50	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		06/22/12 04:50	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		06/22/12 04:50	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		06/22/12 04:50	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		06/22/12 04:50	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		06/22/12 04:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		06/22/12 04:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		06/22/12 04:50	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		06/22/12 04:50	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		06/22/12 04:50	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		06/22/12 04:50	10061-01-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-32 **Lab ID: 92121375006** Collected: 06/12/12 15:00 Received: 06/14/12 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-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		06/22/12 04:50	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		06/22/12 04:50	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		06/22/12 04:50	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		06/22/12 04:50	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		06/22/12 04:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		06/22/12 04:50	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		06/22/12 04:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		06/22/12 04:50	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		06/22/12 04:50	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		06/22/12 04:50	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		06/22/12 04:50	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		06/22/12 04:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		06/22/12 04:50	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		06/22/12 04:50	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		06/22/12 04:50	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		06/22/12 04:50	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		06/22/12 04:50	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		06/22/12 04:50	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		06/22/12 04:50	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		06/22/12 04:50	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		06/22/12 04:50	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		06/22/12 04:50	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		06/22/12 04:50	2037-26-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-33 **Lab ID: 92121375007** Collected: 06/13/12 11:10 Received: 06/14/12 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	06/16/12 14:15	06/19/12 23:37	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 23:37	7440-38-2	
Barium	**34.1J**	ug/L	100	5.0	1	06/16/12 14:15	06/19/12 23:37	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	06/16/12 14:15	06/19/12 23:37	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	06/16/12 14:15	06/19/12 23:37	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 23:37	7440-47-3	
Cobalt	**19.9**	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 23:37	7440-48-4	
Copper	**15.4**	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 23:37	7440-50-8	
Iron	**5260**	ug/L	300	50.0	1	06/16/12 14:15	06/19/12 23:37	7439-89-6	
Lead	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 23:37	7439-92-1	
Nickel	**13.5J**	ug/L	50.0	5.0	1	06/16/12 14:15	06/19/12 23:37	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	06/16/12 14:15	06/19/12 23:37	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 23:37	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	06/16/12 14:15	06/19/12 23:37	7440-28-0	
Vanadium	**5.1J**	ug/L	25.0	5.0	1	06/16/12 14:15	06/19/12 23:37	7440-62-2	
Zinc	**11.6**	ug/L	10.0	10.0	1	06/16/12 14:15	06/19/12 23:37	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		06/22/12 05:05	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		06/22/12 05:05	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		06/22/12 05:05	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		06/22/12 05:05	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		06/22/12 05:05	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		06/22/12 05:05	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		06/22/12 05:05	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		06/22/12 05:05	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		06/22/12 05:05	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		06/22/12 05:05	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		06/22/12 05:05	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		06/22/12 05:05	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		06/22/12 05:05	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		06/22/12 05:05	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		06/22/12 05:05	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		06/22/12 05:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		06/22/12 05:05	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		06/22/12 05:05	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		06/22/12 05:05	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		06/22/12 05:05	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		06/22/12 05:05	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		06/22/12 05:05	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		06/22/12 05:05	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		06/22/12 05:05	75-35-4	
cis-1,2-Dichloroethene	**1.2J**	ug/L	5.0	0.19	1		06/22/12 05:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		06/22/12 05:05	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		06/22/12 05:05	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		06/22/12 05:05	142-28-9	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-33 **Lab ID: 92121375007** Collected: 06/13/12 11:10 Received: 06/14/12 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								
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		06/22/12 05:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		06/22/12 05:05	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		06/22/12 05:05	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		06/22/12 05:05	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		06/22/12 05:05	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		06/22/12 05:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		06/22/12 05:05	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		06/22/12 05:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		06/22/12 05:05	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		06/22/12 05:05	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		06/22/12 05:05	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		06/22/12 05:05	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		06/22/12 05:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		06/22/12 05:05	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		06/22/12 05:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		06/22/12 05:05	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		06/22/12 05:05	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		06/22/12 05:05	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		06/22/12 05:05	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		06/22/12 05:05	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		06/22/12 05:05	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		06/22/12 05:05	1868-53-7	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		06/22/12 05:05	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		06/22/12 05:05	2037-26-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-34 **Lab ID: 92121375008** Collected: 06/13/12 10:05 Received: 06/14/12 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	06/19/12 13:10	06/21/12 20:01	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 20:01	7440-38-2	
Barium	**26.4J**	ug/L	100	5.0	1	06/19/12 13:10	06/21/12 20:01	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	06/19/12 13:10	06/21/12 20:01	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	06/19/12 13:10	06/21/12 20:01	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 20:01	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 20:01	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 20:01	7440-50-8	
Iron	**2960**	ug/L	300	50.0	1	06/19/12 13:10	06/21/12 20:01	7439-89-6	
Lead	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 20:01	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	06/19/12 13:10	06/21/12 20:01	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	06/19/12 13:10	06/21/12 20:01	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 20:01	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	06/19/12 13:10	06/21/12 20:01	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	06/19/12 13:10	06/21/12 20:01	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	06/19/12 13:10	06/21/12 20:01	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		06/22/12 05:21	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		06/22/12 05:21	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		06/22/12 05:21	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		06/22/12 05:21	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		06/22/12 05:21	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		06/22/12 05:21	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		06/22/12 05:21	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		06/22/12 05:21	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		06/22/12 05:21	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		06/22/12 05:21	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		06/22/12 05:21	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		06/22/12 05:21	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		06/22/12 05:21	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		06/22/12 05:21	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		06/22/12 05:21	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		06/22/12 05:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		06/22/12 05:21	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		06/22/12 05:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		06/22/12 05:21	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		06/22/12 05:21	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		06/22/12 05:21	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		06/22/12 05:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		06/22/12 05:21	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		06/22/12 05:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		06/22/12 05:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		06/22/12 05:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		06/22/12 05:21	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		06/22/12 05:21	142-28-9	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-34 **Lab ID: 92121375008** Collected: 06/13/12 10:05 Received: 06/14/12 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								
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		06/22/12 05:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		06/22/12 05:21	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		06/22/12 05:21	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		06/22/12 05:21	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		06/22/12 05:21	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		06/22/12 05:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		06/22/12 05:21	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		06/22/12 05:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		06/22/12 05:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		06/22/12 05:21	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		06/22/12 05:21	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		06/22/12 05:21	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		06/22/12 05:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		06/22/12 05:21	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		06/22/12 05:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		06/22/12 05:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		06/22/12 05:21	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		06/22/12 05:21	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		06/22/12 05:21	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		06/22/12 05:21	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		06/22/12 05:21	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		06/22/12 05:21	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		06/22/12 05:21	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		06/22/12 05:21	2037-26-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-33 **Lab ID: 92121375009** Collected: 06/13/12 11:10 Received: 06/14/12 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	**1510**	ug/L	1000	1000	1		06/19/12 14:12		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		06/16/12 14:00	18496-25-8	
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	ND	ug/L	2000	2000	1	06/15/12 02:25	06/19/12 22:30		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**4750J**	ug/L	250000	2000	1		06/25/12 11:09	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**135J**	ug/L	10000	20.0	1		06/15/12 02:04		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**4480**	ug/L	1000	1000	1		06/26/12 13:02	16887-00-6	
5220D COD	Analytical Method: SM 5220D								
Chemical Oxygen Demand	ND	ug/L	25000	25000	1		06/26/12 10:20		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**1150**	ug/L	1000	1000	1		06/25/12 18:31	7440-44-0	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-34 **Lab ID: 92121375010** Collected: 06/13/12 10:05 Received: 06/14/12 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	ND	ug/L	1000	1000	1		06/19/12 14:12		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		06/16/12 14:00	18496-25-8	
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	ND	ug/L	2000	2000	1	06/15/12 02:25	06/19/12 22:30		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**8970J**	ug/L	250000	2000	1		06/25/12 11:23	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**202J**	ug/L	10000	20.0	1		06/15/12 02:01		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**3880**	ug/L	1000	1000	1		06/26/12 13:03	16887-00-6	
5220D COD	Analytical Method: SM 5220D								
Chemical Oxygen Demand	ND	ug/L	25000	25000	1		06/26/12 10:20		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	ND	ug/L	1000	1000	1		06/25/12 18:41	7440-44-0	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-6 **Lab ID: 92121375011** Collected: 06/14/12 15:00 Received: 06/15/12 13:20 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	06/19/12 13:10	06/21/12 20:28	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 20:28	7440-38-2	
Barium	**66.0J**	ug/L	100	5.0	1	06/19/12 13:10	06/21/12 20:28	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	06/19/12 13:10	06/21/12 20:28	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	06/19/12 13:10	06/21/12 20:28	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 20:28	7440-47-3	
Cobalt	**16.8**	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 20:28	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 20:28	7440-50-8	
Iron	**991**	ug/L	300	50.0	1	06/19/12 13:10	06/21/12 20:28	7439-89-6	
Lead	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 20:28	7439-92-1	
Nickel	**5.9J**	ug/L	50.0	5.0	1	06/19/12 13:10	06/21/12 20:28	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	06/19/12 13:10	06/21/12 20:28	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 20:28	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	06/19/12 13:10	06/21/12 20:28	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	06/19/12 13:10	06/21/12 20:28	7440-62-2	
Zinc	**10.9**	ug/L	10.0	10.0	1	06/19/12 13:10	06/21/12 20:28	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		06/22/12 05:37	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		06/22/12 05:37	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		06/22/12 05:37	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		06/22/12 05:37	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		06/22/12 05:37	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		06/22/12 05:37	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		06/22/12 05:37	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		06/22/12 05:37	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		06/22/12 05:37	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		06/22/12 05:37	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		06/22/12 05:37	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		06/22/12 05:37	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		06/22/12 05:37	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		06/22/12 05:37	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		06/22/12 05:37	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		06/22/12 05:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		06/22/12 05:37	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		06/22/12 05:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		06/22/12 05:37	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		06/22/12 05:37	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		06/22/12 05:37	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		06/22/12 05:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		06/22/12 05:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		06/22/12 05:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		06/22/12 05:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		06/22/12 05:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		06/22/12 05:37	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		06/22/12 05:37	142-28-9	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-6 **Lab ID: 92121375011** Collected: 06/14/12 15:00 Received: 06/15/12 13:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		06/22/12 05:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		06/22/12 05:37	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		06/22/12 05:37	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		06/22/12 05:37	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		06/22/12 05:37	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		06/22/12 05:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		06/22/12 05:37	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		06/22/12 05:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		06/22/12 05:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		06/22/12 05:37	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		06/22/12 05:37	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		06/22/12 05:37	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		06/22/12 05:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		06/22/12 05:37	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		06/22/12 05:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		06/22/12 05:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		06/22/12 05:37	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		06/22/12 05:37	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		06/22/12 05:37	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		06/22/12 05:37	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		06/22/12 05:37	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		06/22/12 05:37	1868-53-7	
1,2-Dichloroethane-d4 (S)	110	%	70-130		1		06/22/12 05:37	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		06/22/12 05:37	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**9230**	ug/L	1000	1000	1		06/19/12 14:12		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		06/16/12 14:00	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**4030J**	ug/L	250000	2000	1		06/30/12 12:15	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**2010J**	ug/L	10000	20.0	1		06/15/12 22:26		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**6070**	ug/L	1000	1000	1		06/26/12 13:30	16887-00-6	
5220D COD	Analytical Method: SM 5220D								
Chemical Oxygen Demand	**31000**	ug/L	25000	25000	1		06/27/12 10:40		

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-6 **Lab ID: 92121375011** Collected: 06/14/12 15:00 Received: 06/15/12 13:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**7730**	ug/L	1000	1000	1		06/25/12 21:08	7440-44-0	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-12 **Lab ID: 92121375012** Collected: 06/14/12 15:50 Received: 06/15/12 13:20 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	06/19/12 13:10	06/21/12 20:31	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 20:31	7440-38-2	
Barium	**103**	ug/L	100	5.0	1	06/19/12 13:10	06/21/12 20:31	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	06/19/12 13:10	06/21/12 20:31	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	06/19/12 13:10	06/21/12 20:31	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 20:31	7440-47-3	
Cobalt	**49.2**	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 20:31	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 20:31	7440-50-8	
Iron	**9700**	ug/L	300	50.0	1	06/19/12 13:10	06/21/12 20:31	7439-89-6	
Lead	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 20:31	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	06/19/12 13:10	06/21/12 20:31	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	06/19/12 13:10	06/21/12 20:31	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 20:31	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	06/19/12 13:10	06/21/12 20:31	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	06/19/12 13:10	06/21/12 20:31	7440-62-2	
Zinc	**18.2**	ug/L	10.0	10.0	1	06/19/12 13:10	06/21/12 20:31	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		06/22/12 05:52	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		06/22/12 05:52	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		06/22/12 05:52	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		06/22/12 05:52	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		06/22/12 05:52	107-05-1	
Benzene	**5.4**	ug/L	1.0	0.25	1		06/22/12 05:52	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		06/22/12 05:52	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		06/22/12 05:52	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		06/22/12 05:52	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		06/22/12 05:52	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		06/22/12 05:52	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		06/22/12 05:52	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		06/22/12 05:52	56-23-5	
Chlorobenzene	**2.2J**	ug/L	3.0	0.23	1		06/22/12 05:52	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		06/22/12 05:52	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		06/22/12 05:52	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		06/22/12 05:52	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		06/22/12 05:52	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		06/22/12 05:52	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		06/22/12 05:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		06/22/12 05:52	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		06/22/12 05:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		06/22/12 05:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		06/22/12 05:52	541-73-1	
1,4-Dichlorobenzene	**7.1**	ug/L	1.0	0.33	1		06/22/12 05:52	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		06/22/12 05:52	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		06/22/12 05:52	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		06/22/12 05:52	75-34-3	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-12 **Lab ID: 92121375012** Collected: 06/14/12 15:50 Received: 06/15/12 13:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
1,2-Dichloroethane	**0.16J**	ug/L	1.0	0.12	1		06/22/12 05:52	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		06/22/12 05:52	75-35-4	
cis-1,2-Dichloroethene	**11.8**	ug/L	5.0	0.19	1		06/22/12 05:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		06/22/12 05:52	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		06/22/12 05:52	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		06/22/12 05:52	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		06/22/12 05:52	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		06/22/12 05:52	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		06/22/12 05:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		06/22/12 05:52	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		06/22/12 05:52	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		06/22/12 05:52	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		06/22/12 05:52	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		06/22/12 05:52	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		06/22/12 05:52	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		06/22/12 05:52	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		06/22/12 05:52	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		06/22/12 05:52	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		06/22/12 05:52	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		06/22/12 05:52	108-10-1	
Naphthalene	**0.60J**	ug/L	10.0	0.24	1		06/22/12 05:52	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		06/22/12 05:52	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		06/22/12 05:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		06/22/12 05:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		06/22/12 05:52	79-34-5	
Tetrachloroethene	**0.97J**	ug/L	1.0	0.46	1		06/22/12 05:52	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		06/22/12 05:52	108-88-3	
1,2,4-Trichlorobenzene	**0.72J**	ug/L	10.0	0.35	1		06/22/12 05:52	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		06/22/12 05:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		06/22/12 05:52	79-00-5	
Trichloroethene	**2.2**	ug/L	1.0	0.47	1		06/22/12 05:52	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		06/22/12 05:52	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		06/22/12 05:52	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		06/22/12 05:52	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		06/22/12 05:52	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		06/22/12 05:52	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		06/22/12 05:52	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		06/22/12 05:52	1868-53-7	
1,2-Dichloroethane-d4 (S)	112	%	70-130		1		06/22/12 05:52	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		06/22/12 05:52	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**76500**	ug/L	1000	1000	1		06/19/12 14:12		

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-12 **Lab ID: 92121375012** Collected: 06/14/12 15:50 Received: 06/15/12 13:20 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		06/16/12 14:00	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**3050J**	ug/L	250000	2000	1		06/30/12 12:29	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**32.9J**	ug/L	10000	20.0	1		06/15/12 22:27		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**9800**	ug/L	1000	1000	1		06/26/12 13:30	16887-00-6	
5220D COD	Analytical Method: SM 5220D								
Chemical Oxygen Demand	ND	ug/L	25000	25000	1		06/27/12 10:40		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**26800**	ug/L	1000	1000	1		06/25/12 21:22	7440-44-0	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-16 **Lab ID: 92121375013** Collected: 06/14/12 13:15 Received: 06/15/12 13:20 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	06/19/12 13:10	06/21/12 20:34	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 20:34	7440-38-2	
Barium	**62.1J**	ug/L	100	5.0	1	06/19/12 13:10	06/21/12 20:34	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	06/19/12 13:10	06/21/12 20:34	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	06/19/12 13:10	06/21/12 20:34	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 20:34	7440-47-3	
Cobalt	**30.5**	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 20:34	7440-48-4	
Copper	**6.3J**	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 20:34	7440-50-8	
Iron	**3000**	ug/L	300	50.0	1	06/19/12 13:10	06/21/12 20:34	7439-89-6	
Lead	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 20:34	7439-92-1	
Nickel	**5.2J**	ug/L	50.0	5.0	1	06/19/12 13:10	06/21/12 20:34	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	06/19/12 13:10	06/21/12 20:34	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 20:34	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	06/19/12 13:10	06/21/12 20:34	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	06/19/12 13:10	06/21/12 20:34	7440-62-2	
Zinc	**13.8**	ug/L	10.0	10.0	1	06/19/12 13:10	06/21/12 20:34	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		06/22/12 06:08	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		06/22/12 06:08	107-13-1	
Benzene	**2.2**	ug/L	1.0	0.25	1		06/22/12 06:08	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		06/22/12 06:08	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		06/22/12 06:08	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		06/22/12 06:08	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		06/22/12 06:08	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		06/22/12 06:08	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		06/22/12 06:08	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		06/22/12 06:08	56-23-5	
Chlorobenzene	**0.50J**	ug/L	3.0	0.23	1		06/22/12 06:08	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		06/22/12 06:08	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		06/22/12 06:08	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		06/22/12 06:08	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		06/22/12 06:08	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		06/22/12 06:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		06/22/12 06:08	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		06/22/12 06:08	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		06/22/12 06:08	95-50-1	
1,4-Dichlorobenzene	**1.8**	ug/L	1.0	0.33	1		06/22/12 06:08	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		06/22/12 06:08	110-57-6	
1,1-Dichloroethane	**8.4**	ug/L	5.0	0.32	1		06/22/12 06:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		06/22/12 06:08	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		06/22/12 06:08	75-35-4	
cis-1,2-Dichloroethene	**15.7**	ug/L	5.0	0.19	1		06/22/12 06:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		06/22/12 06:08	156-60-5	
1,2-Dichloropropane	**0.79J**	ug/L	1.0	0.27	1		06/22/12 06:08	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		06/22/12 06:08	142-28-9	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-16 **Lab ID: 92121375013** Collected: 06/14/12 13:15 Received: 06/15/12 13:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		06/22/12 06:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		06/22/12 06:08	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		06/22/12 06:08	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		06/22/12 06:08	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		06/22/12 06:08	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		06/22/12 06:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		06/22/12 06:08	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		06/22/12 06:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		06/22/12 06:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		06/22/12 06:08	79-34-5	
Tetrachloroethene	**2.1**	ug/L	1.0	0.46	1		06/22/12 06:08	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		06/22/12 06:08	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		06/22/12 06:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		06/22/12 06:08	79-00-5	
Trichloroethene	**2.6**	ug/L	1.0	0.47	1		06/22/12 06:08	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		06/22/12 06:08	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		06/22/12 06:08	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		06/22/12 06:08	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		06/22/12 06:08	75-01-4	
Xylene (Total)	**1.0J**	ug/L	5.0	0.66	1		06/22/12 06:08	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		06/22/12 06:08	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		06/22/12 06:08	1868-53-7	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		06/22/12 06:08	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		06/22/12 06:08	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**29700**	ug/L	1000	1000	1		06/19/12 14:12		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		06/16/12 14:00	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**5840J**	ug/L	250000	2000	1		06/30/12 12:42	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**143J**	ug/L	10000	20.0	1		06/15/12 22:19		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**3780**	ug/L	1000	1000	1		06/26/12 14:49	16887-00-6	
5220D COD	Analytical Method: SM 5220D								
Chemical Oxygen Demand	**33000**	ug/L	25000	25000	1		06/27/12 10:40		

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-16 **Lab ID: 92121375013** Collected: 06/14/12 13:15 Received: 06/15/12 13:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**11100**	ug/L	1000	1000	1		06/25/12 21:37	7440-44-0	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-9 **Lab ID: 92121375014** Collected: 06/14/12 16:30 Received: 06/15/12 13:20 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	06/19/12 13:10	06/21/12 21:53	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:53	7440-38-2	
Barium	**107**	ug/L	100	5.0	1	06/19/12 13:10	06/21/12 21:53	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	06/19/12 13:10	06/21/12 21:53	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	06/19/12 13:10	06/21/12 21:53	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:53	7440-47-3	
Cobalt	**53.0**	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:53	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:53	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:53	7439-92-1	
Nickel	**30.7J**	ug/L	50.0	5.0	1	06/19/12 13:10	06/21/12 21:53	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	06/19/12 13:10	06/21/12 21:53	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:53	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	06/19/12 13:10	06/21/12 21:53	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	06/19/12 13:10	06/21/12 21:53	7440-62-2	
Zinc	**10.8**	ug/L	10.0	10.0	1	06/19/12 13:10	06/21/12 21:53	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		06/22/12 06:24	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		06/22/12 06:24	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		06/22/12 06:24	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		06/22/12 06:24	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		06/22/12 06:24	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		06/22/12 06:24	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		06/22/12 06:24	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		06/22/12 06:24	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		06/22/12 06:24	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		06/22/12 06:24	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		06/22/12 06:24	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		06/22/12 06:24	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		06/22/12 06:24	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		06/22/12 06:24	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		06/22/12 06:24	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		06/22/12 06:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		06/22/12 06:24	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		06/22/12 06:24	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		06/22/12 06:24	95-50-1	
1,4-Dichlorobenzene	**0.42J**	ug/L	1.0	0.33	1		06/22/12 06:24	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		06/22/12 06:24	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		06/22/12 06:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		06/22/12 06:24	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		06/22/12 06:24	75-35-4	
cis-1,2-Dichloroethene	**10.4**	ug/L	5.0	0.19	1		06/22/12 06:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		06/22/12 06:24	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		06/22/12 06:24	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		06/22/12 06:24	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		06/22/12 06:24	10061-01-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-9 **Lab ID: 92121375014** Collected: 06/14/12 16:30 Received: 06/15/12 13:20 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		06/22/12 06:24	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		06/22/12 06:24	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		06/22/12 06:24	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		06/22/12 06:24	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		06/22/12 06:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		06/22/12 06:24	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		06/22/12 06:24	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		06/22/12 06:24	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		06/22/12 06:24	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		06/22/12 06:24	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		06/22/12 06:24	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		06/22/12 06:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		06/22/12 06:24	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		06/22/12 06:24	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		06/22/12 06:24	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		06/22/12 06:24	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		06/22/12 06:24	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		06/22/12 06:24	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		06/22/12 06:24	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		06/22/12 06:24	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		06/22/12 06:24	1868-53-7	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		06/22/12 06:24	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		06/22/12 06:24	2037-26-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-10 **Lab ID: 92121375015** Collected: 06/14/12 08:15 Received: 06/15/12 13:20 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	06/19/12 13:10	06/21/12 21:56	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:56	7440-38-2	
Barium	**19.0J**	ug/L	100	5.0	1	06/19/12 13:10	06/21/12 21:56	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	06/19/12 13:10	06/21/12 21:56	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	06/19/12 13:10	06/21/12 21:56	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:56	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:56	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:56	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:56	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	06/19/12 13:10	06/21/12 21:56	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	06/19/12 13:10	06/21/12 21:56	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:56	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	06/19/12 13:10	06/21/12 21:56	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	06/19/12 13:10	06/21/12 21:56	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	06/19/12 13:10	06/21/12 21:56	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		06/22/12 06:40	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		06/22/12 06:40	107-13-1	
Benzene	**1.6**	ug/L	1.0	0.25	1		06/22/12 06:40	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		06/22/12 06:40	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		06/22/12 06:40	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		06/22/12 06:40	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		06/22/12 06:40	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		06/22/12 06:40	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		06/22/12 06:40	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		06/22/12 06:40	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		06/22/12 06:40	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		06/22/12 06:40	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		06/22/12 06:40	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		06/22/12 06:40	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		06/22/12 06:40	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		06/22/12 06:40	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		06/22/12 06:40	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		06/22/12 06:40	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		06/22/12 06:40	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		06/22/12 06:40	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		06/22/12 06:40	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		06/22/12 06:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		06/22/12 06:40	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		06/22/12 06:40	75-35-4	
cis-1,2-Dichloroethene	**4.5J**	ug/L	5.0	0.19	1		06/22/12 06:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		06/22/12 06:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		06/22/12 06:40	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		06/22/12 06:40	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		06/22/12 06:40	10061-01-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-10 **Lab ID: 92121375015** Collected: 06/14/12 08:15 Received: 06/15/12 13:20 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		06/22/12 06:40	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		06/22/12 06:40	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		06/22/12 06:40	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		06/22/12 06:40	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		06/22/12 06:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		06/22/12 06:40	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		06/22/12 06:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		06/22/12 06:40	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		06/22/12 06:40	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		06/22/12 06:40	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		06/22/12 06:40	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		06/22/12 06:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		06/22/12 06:40	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		06/22/12 06:40	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		06/22/12 06:40	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		06/22/12 06:40	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		06/22/12 06:40	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		06/22/12 06:40	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		06/22/12 06:40	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		06/22/12 06:40	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		06/22/12 06:40	1868-53-7	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		06/22/12 06:40	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		06/22/12 06:40	2037-26-5	
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		06/16/12 14:00	18496-25-8	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-13 **Lab ID: 92121375016** Collected: 06/14/12 08:50 Received: 06/15/12 13:20 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	06/19/12 13:10	06/21/12 22:00	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 22:00	7440-38-2	
Barium	**17.0J**	ug/L	100	5.0	1	06/19/12 13:10	06/21/12 22:00	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	06/19/12 13:10	06/21/12 22:00	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	06/19/12 13:10	06/21/12 22:00	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 22:00	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 22:00	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 22:00	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 22:00	7439-92-1	
Nickel	**9.1J**	ug/L	50.0	5.0	1	06/19/12 13:10	06/21/12 22:00	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	06/19/12 13:10	06/21/12 22:00	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 22:00	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	06/19/12 13:10	06/21/12 22:00	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	06/19/12 13:10	06/21/12 22:00	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	06/19/12 13:10	06/21/12 22:00	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		06/22/12 06:56	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		06/22/12 06:56	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		06/22/12 06:56	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		06/22/12 06:56	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		06/22/12 06:56	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		06/22/12 06:56	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		06/22/12 06:56	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		06/22/12 06:56	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		06/22/12 06:56	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		06/22/12 06:56	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		06/22/12 06:56	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		06/22/12 06:56	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		06/22/12 06:56	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		06/22/12 06:56	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		06/22/12 06:56	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		06/22/12 06:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		06/22/12 06:56	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		06/22/12 06:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		06/22/12 06:56	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		06/22/12 06:56	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		06/22/12 06:56	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		06/22/12 06:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		06/22/12 06:56	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		06/22/12 06:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		06/22/12 06:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		06/22/12 06:56	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		06/22/12 06:56	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		06/22/12 06:56	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		06/22/12 06:56	10061-01-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-13 **Lab ID: 92121375016** Collected: 06/14/12 08:50 Received: 06/15/12 13:20 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		06/22/12 06:56	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		06/22/12 06:56	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		06/22/12 06:56	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		06/22/12 06:56	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		06/22/12 06:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		06/22/12 06:56	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		06/22/12 06:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		06/22/12 06:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		06/22/12 06:56	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		06/22/12 06:56	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		06/22/12 06:56	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		06/22/12 06:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		06/22/12 06:56	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		06/22/12 06:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		06/22/12 06:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		06/22/12 06:56	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		06/22/12 06:56	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		06/22/12 06:56	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		06/22/12 06:56	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		06/22/12 06:56	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		06/22/12 06:56	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		06/22/12 06:56	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		06/22/12 06:56	2037-26-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-15 **Lab ID: 92121375017** Collected: 06/14/12 09:30 Received: 06/15/12 13:20 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	06/19/12 13:10	06/21/12 22:04	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 22:04	7440-38-2	
Barium	**22.1J**	ug/L	100	5.0	1	06/19/12 13:10	06/21/12 22:04	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	06/19/12 13:10	06/21/12 22:04	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	06/19/12 13:10	06/21/12 22:04	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 22:04	7440-47-3	
Cobalt	**14.8**	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 22:04	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 22:04	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 22:04	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	06/19/12 13:10	06/21/12 22:04	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	06/19/12 13:10	06/21/12 22:04	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 22:04	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	06/19/12 13:10	06/21/12 22:04	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	06/19/12 13:10	06/21/12 22:04	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	06/19/12 13:10	06/21/12 22:04	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		06/22/12 07:11	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		06/22/12 07:11	107-13-1	
Benzene	**2.3**	ug/L	1.0	0.25	1		06/22/12 07:11	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		06/22/12 07:11	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		06/22/12 07:11	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		06/22/12 07:11	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		06/22/12 07:11	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		06/22/12 07:11	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		06/22/12 07:11	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		06/22/12 07:11	56-23-5	
Chlorobenzene	**0.46J**	ug/L	3.0	0.23	1		06/22/12 07:11	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		06/22/12 07:11	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		06/22/12 07:11	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		06/22/12 07:11	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		06/22/12 07:11	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		06/22/12 07:11	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		06/22/12 07:11	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		06/22/12 07:11	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		06/22/12 07:11	95-50-1	
1,4-Dichlorobenzene	**0.40J**	ug/L	1.0	0.33	1		06/22/12 07:11	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		06/22/12 07:11	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		06/22/12 07:11	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		06/22/12 07:11	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		06/22/12 07:11	75-35-4	
cis-1,2-Dichloroethene	**8.2**	ug/L	5.0	0.19	1		06/22/12 07:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		06/22/12 07:11	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		06/22/12 07:11	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		06/22/12 07:11	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		06/22/12 07:11	10061-01-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-15 **Lab ID: 92121375017** Collected: 06/14/12 09:30 Received: 06/15/12 13:20 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		06/22/12 07:11	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		06/22/12 07:11	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		06/22/12 07:11	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		06/22/12 07:11	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		06/22/12 07:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		06/22/12 07:11	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		06/22/12 07:11	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		06/22/12 07:11	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		06/22/12 07:11	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		06/22/12 07:11	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		06/22/12 07:11	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		06/22/12 07:11	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		06/22/12 07:11	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		06/22/12 07:11	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		06/22/12 07:11	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		06/22/12 07:11	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		06/22/12 07:11	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		06/22/12 07:11	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		06/22/12 07:11	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		06/22/12 07:11	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		06/22/12 07:11	1868-53-7	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		06/22/12 07:11	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		06/22/12 07:11	2037-26-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-19 **Lab ID: 92121375018** Collected: 06/14/12 10:10 Received: 06/15/12 13:20 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	06/19/12 13:10	06/21/12 22:07	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 22:07	7440-38-2	
Barium	**16.4J**	ug/L	100	5.0	1	06/19/12 13:10	06/21/12 22:07	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	06/19/12 13:10	06/21/12 22:07	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	06/19/12 13:10	06/21/12 22:07	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 22:07	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 22:07	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 22:07	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 22:07	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	06/19/12 13:10	06/21/12 22:07	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	06/19/12 13:10	06/21/12 22:07	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 22:07	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	06/19/12 13:10	06/21/12 22:07	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	06/19/12 13:10	06/21/12 22:07	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	06/19/12 13:10	06/21/12 22:07	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		06/22/12 07:27	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		06/22/12 07:27	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		06/22/12 07:27	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		06/22/12 07:27	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		06/22/12 07:27	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		06/22/12 07:27	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		06/22/12 07:27	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		06/22/12 07:27	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		06/22/12 07:27	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		06/22/12 07:27	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		06/22/12 07:27	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		06/22/12 07:27	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		06/22/12 07:27	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		06/22/12 07:27	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		06/22/12 07:27	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		06/22/12 07:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		06/22/12 07:27	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		06/22/12 07:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		06/22/12 07:27	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		06/22/12 07:27	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		06/22/12 07:27	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		06/22/12 07:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		06/22/12 07:27	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		06/22/12 07:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		06/22/12 07:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		06/22/12 07:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		06/22/12 07:27	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		06/22/12 07:27	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		06/22/12 07:27	10061-01-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-19 **Lab ID: 92121375018** Collected: 06/14/12 10:10 Received: 06/15/12 13:20 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		06/22/12 07:27	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		06/22/12 07:27	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		06/22/12 07:27	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		06/22/12 07:27	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		06/22/12 07:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		06/22/12 07:27	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		06/22/12 07:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		06/22/12 07:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		06/22/12 07:27	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		06/22/12 07:27	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		06/22/12 07:27	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		06/22/12 07:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		06/22/12 07:27	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		06/22/12 07:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		06/22/12 07:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		06/22/12 07:27	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		06/22/12 07:27	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		06/22/12 07:27	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		06/22/12 07:27	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		06/22/12 07:27	460-00-4	
Dibromofluoromethane (S)	110	%	70-130		1		06/22/12 07:27	1868-53-7	
1,2-Dichloroethane-d4 (S)	110	%	70-130		1		06/22/12 07:27	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		06/22/12 07:27	2037-26-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-20 **Lab ID: 92121375019** Collected: 06/14/12 10:50 Received: 06/15/12 13:20 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	06/19/12 13:10	06/21/12 22:11	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 22:11	7440-38-2	
Barium	**40.4J**	ug/L	100	5.0	1	06/19/12 13:10	06/21/12 22:11	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	06/19/12 13:10	06/21/12 22:11	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	06/19/12 13:10	06/21/12 22:11	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 22:11	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 22:11	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 22:11	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 22:11	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	06/19/12 13:10	06/21/12 22:11	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	06/19/12 13:10	06/21/12 22:11	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 22:11	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	06/19/12 13:10	06/21/12 22:11	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	06/19/12 13:10	06/21/12 22:11	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	06/19/12 13:10	06/21/12 22:11	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		06/22/12 07:43	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		06/22/12 07:43	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		06/22/12 07:43	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		06/22/12 07:43	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		06/22/12 07:43	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		06/22/12 07:43	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		06/22/12 07:43	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		06/22/12 07:43	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		06/22/12 07:43	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		06/22/12 07:43	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		06/22/12 07:43	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		06/22/12 07:43	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		06/22/12 07:43	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		06/22/12 07:43	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		06/22/12 07:43	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		06/22/12 07:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		06/22/12 07:43	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		06/22/12 07:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		06/22/12 07:43	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		06/22/12 07:43	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		06/22/12 07:43	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		06/22/12 07:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		06/22/12 07:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		06/22/12 07:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		06/22/12 07:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		06/22/12 07:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		06/22/12 07:43	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		06/22/12 07:43	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		06/22/12 07:43	10061-01-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-20 **Lab ID: 92121375019** Collected: 06/14/12 10:50 Received: 06/15/12 13:20 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		06/22/12 07:43	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		06/22/12 07:43	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		06/22/12 07:43	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		06/22/12 07:43	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		06/22/12 07:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		06/22/12 07:43	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		06/22/12 07:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		06/22/12 07:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		06/22/12 07:43	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		06/22/12 07:43	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		06/22/12 07:43	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		06/22/12 07:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		06/22/12 07:43	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		06/22/12 07:43	79-01-6	
Trichlorofluoromethane	**0.78J**	ug/L	1.0	0.20	1		06/22/12 07:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		06/22/12 07:43	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		06/22/12 07:43	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		06/22/12 07:43	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		06/22/12 07:43	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		06/22/12 07:43	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		06/22/12 07:43	1868-53-7	
1,2-Dichloroethane-d4 (S)	111	%	70-130		1		06/22/12 07:43	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		06/22/12 07:43	2037-26-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-21 **Lab ID: 92121375020** Collected: 06/14/12 12:00 Received: 06/15/12 13:20 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	06/19/12 13:10	06/21/12 22:14	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 22:14	7440-38-2	
Barium	**47.7J**	ug/L	100	5.0	1	06/19/12 13:10	06/21/12 22:14	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	06/19/12 13:10	06/21/12 22:14	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	06/19/12 13:10	06/21/12 22:14	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 22:14	7440-47-3	
Cobalt	**6.2J**	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 22:14	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 22:14	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 22:14	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	06/19/12 13:10	06/21/12 22:14	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	06/19/12 13:10	06/21/12 22:14	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 22:14	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	06/19/12 13:10	06/21/12 22:14	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	06/19/12 13:10	06/21/12 22:14	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	06/19/12 13:10	06/21/12 22:14	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		06/22/12 07:59	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		06/22/12 07:59	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		06/22/12 07:59	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		06/22/12 07:59	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		06/22/12 07:59	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		06/22/12 07:59	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		06/22/12 07:59	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		06/22/12 07:59	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		06/22/12 07:59	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		06/22/12 07:59	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		06/22/12 07:59	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		06/22/12 07:59	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		06/22/12 07:59	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		06/22/12 07:59	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		06/22/12 07:59	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		06/22/12 07:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		06/22/12 07:59	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		06/22/12 07:59	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		06/22/12 07:59	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		06/22/12 07:59	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		06/22/12 07:59	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		06/22/12 07:59	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		06/22/12 07:59	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		06/22/12 07:59	75-35-4	
cis-1,2-Dichloroethene	**1.0J**	ug/L	5.0	0.19	1		06/22/12 07:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		06/22/12 07:59	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		06/22/12 07:59	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		06/22/12 07:59	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		06/22/12 07:59	10061-01-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-21 **Lab ID: 92121375020** Collected: 06/14/12 12:00 Received: 06/15/12 13:20 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		06/22/12 07:59	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		06/22/12 07:59	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		06/22/12 07:59	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		06/22/12 07:59	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		06/22/12 07:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		06/22/12 07:59	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		06/22/12 07:59	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		06/22/12 07:59	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		06/22/12 07:59	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		06/22/12 07:59	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		06/22/12 07:59	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		06/22/12 07:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		06/22/12 07:59	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		06/22/12 07:59	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		06/22/12 07:59	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		06/22/12 07:59	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		06/22/12 07:59	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		06/22/12 07:59	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		06/22/12 07:59	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		06/22/12 07:59	460-00-4	
Dibromofluoromethane (S)	110	%	70-130		1		06/22/12 07:59	1868-53-7	
1,2-Dichloroethane-d4 (S)	116	%	70-130		1		06/22/12 07:59	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		06/22/12 07:59	2037-26-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-22 **Lab ID: 92121375021** Collected: 06/12/12 14:00 Received: 06/15/12 13:20 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	06/19/12 13:10	06/21/12 22:17	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 22:17	7440-38-2	
Barium	**45.1J**	ug/L	100	5.0	1	06/19/12 13:10	06/21/12 22:17	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	06/19/12 13:10	06/21/12 22:17	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	06/19/12 13:10	06/21/12 22:17	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 22:17	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 22:17	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 22:17	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 22:17	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	06/19/12 13:10	06/21/12 22:17	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	06/19/12 13:10	06/21/12 22:17	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 22:17	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	06/19/12 13:10	06/21/12 22:17	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	06/19/12 13:10	06/21/12 22:17	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	06/19/12 13:10	06/21/12 22:17	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	**2.4J**	ug/L	100	2.2	1		06/22/12 08:14	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		06/22/12 08:14	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		06/22/12 08:14	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		06/22/12 08:14	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		06/22/12 08:14	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		06/22/12 08:14	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		06/22/12 08:14	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		06/22/12 08:14	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		06/22/12 08:14	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		06/22/12 08:14	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		06/22/12 08:14	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		06/22/12 08:14	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		06/22/12 08:14	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		06/22/12 08:14	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		06/22/12 08:14	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		06/22/12 08:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		06/22/12 08:14	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		06/22/12 08:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		06/22/12 08:14	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		06/22/12 08:14	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		06/22/12 08:14	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		06/22/12 08:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		06/22/12 08:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		06/22/12 08:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		06/22/12 08:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		06/22/12 08:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		06/22/12 08:14	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		06/22/12 08:14	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		06/22/12 08:14	10061-01-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-22 **Lab ID: 92121375021** Collected: 06/12/12 14:00 Received: 06/15/12 13:20 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		06/22/12 08:14	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		06/22/12 08:14	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		06/22/12 08:14	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		06/22/12 08:14	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		06/22/12 08:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		06/22/12 08:14	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		06/22/12 08:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		06/22/12 08:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		06/22/12 08:14	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		06/22/12 08:14	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		06/22/12 08:14	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		06/22/12 08:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		06/22/12 08:14	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		06/22/12 08:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		06/22/12 08:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		06/22/12 08:14	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		06/22/12 08:14	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		06/22/12 08:14	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		06/22/12 08:14	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		06/22/12 08:14	460-00-4	
Dibromofluoromethane (S)	111	%	70-130		1		06/22/12 08:14	1868-53-7	
1,2-Dichloroethane-d4 (S)	117	%	70-130		1		06/22/12 08:14	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		06/22/12 08:14	2037-26-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-18 **Lab ID: 92121375022** Collected: 06/14/12 14:05 Received: 06/15/12 13:20 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	06/19/12 13:10	06/21/12 22:30	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 22:30	7440-38-2	
Barium	**20.7J**	ug/L	100	5.0	1	06/19/12 13:10	06/21/12 22:30	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	06/19/12 13:10	06/21/12 22:30	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	06/19/12 13:10	06/21/12 22:30	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 22:30	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 22:30	7440-48-4	
Copper	**7.5J**	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 22:30	7440-50-8	
Iron	**4680**	ug/L	300	50.0	1	06/19/12 13:10	06/21/12 22:30	7439-89-6	
Lead	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 22:30	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	06/19/12 13:10	06/21/12 22:30	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	06/19/12 13:10	06/21/12 22:30	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 22:30	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	06/19/12 13:10	06/21/12 22:30	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	06/19/12 13:10	06/21/12 22:30	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	06/19/12 13:10	06/21/12 22:30	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		06/22/12 08:30	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		06/22/12 08:30	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		06/22/12 08:30	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		06/22/12 08:30	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		06/22/12 08:30	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		06/22/12 08:30	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		06/22/12 08:30	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		06/22/12 08:30	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		06/22/12 08:30	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		06/22/12 08:30	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		06/22/12 08:30	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		06/22/12 08:30	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		06/22/12 08:30	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		06/22/12 08:30	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		06/22/12 08:30	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		06/22/12 08:30	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		06/22/12 08:30	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		06/22/12 08:30	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		06/22/12 08:30	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		06/22/12 08:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		06/22/12 08:30	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		06/22/12 08:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		06/22/12 08:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		06/22/12 08:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		06/22/12 08:30	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		06/22/12 08:30	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		06/22/12 08:30	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		06/22/12 08:30	75-34-3	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-18 **Lab ID: 92121375022** Collected: 06/14/12 14:05 Received: 06/15/12 13:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		06/22/12 08:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		06/22/12 08:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		06/22/12 08:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		06/22/12 08:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		06/22/12 08:30	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		06/22/12 08:30	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		06/22/12 08:30	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		06/22/12 08:30	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		06/22/12 08:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		06/22/12 08:30	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		06/22/12 08:30	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		06/22/12 08:30	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		06/22/12 08:30	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		06/22/12 08:30	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		06/22/12 08:30	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		06/22/12 08:30	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		06/22/12 08:30	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		06/22/12 08:30	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		06/22/12 08:30	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		06/22/12 08:30	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		06/22/12 08:30	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		06/22/12 08:30	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		06/22/12 08:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		06/22/12 08:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		06/22/12 08:30	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		06/22/12 08:30	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		06/22/12 08:30	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		06/22/12 08:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		06/22/12 08:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		06/22/12 08:30	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		06/22/12 08:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		06/22/12 08:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		06/22/12 08:30	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		06/22/12 08:30	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		06/22/12 08:30	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		06/22/12 08:30	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		06/22/12 08:30	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		06/22/12 08:30	1868-53-7	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		06/22/12 08:30	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		06/22/12 08:30	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	ND	ug/L	1000	1000	1		06/19/12 14:12		

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-18 **Lab ID: 92121375022** Collected: 06/14/12 14:05 Received: 06/15/12 13:20 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		06/16/12 14:00	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**5430J**	ug/L	250000	2000	1		06/30/12 12:56	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**73.4J**	ug/L	10000	20.0	1		06/15/12 22:23		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**1030**	ug/L	1000	1000	1		06/26/12 14:50	16887-00-6	
5220D COD	Analytical Method: SM 5220D								
Chemical Oxygen Demand	ND	ug/L	25000	25000	1		06/27/12 10:40		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**2510**	ug/L	1000	1000	1		06/25/12 21:50	7440-44-0	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-1 **Lab ID: 92121375023** Collected: 06/15/12 10:35 Received: 06/15/12 14:15 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	06/19/12 13:10	06/21/12 20:44	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 20:44	7440-38-2	
Barium	**41.9J**	ug/L	100	5.0	1	06/19/12 13:10	06/21/12 20:44	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	06/19/12 13:10	06/21/12 20:44	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	06/19/12 13:10	06/21/12 20:44	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 20:44	7440-47-3	
Cobalt	**28.5**	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 20:44	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 20:44	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 20:44	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	06/19/12 13:10	06/21/12 20:44	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	06/19/12 13:10	06/21/12 20:44	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 20:44	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	06/19/12 13:10	06/21/12 20:44	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	06/19/12 13:10	06/21/12 20:44	7440-62-2	
Zinc	**19.0**	ug/L	10.0	10.0	1	06/19/12 13:10	06/21/12 20:44	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		06/23/12 00:36	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		06/23/12 00:36	107-13-1	
Benzene	**5.2**	ug/L	1.0	0.25	1		06/23/12 00:36	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		06/23/12 00:36	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		06/23/12 00:36	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		06/23/12 00:36	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		06/23/12 00:36	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		06/23/12 00:36	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		06/23/12 00:36	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		06/23/12 00:36	56-23-5	
Chlorobenzene	**0.82J**	ug/L	3.0	0.23	1		06/23/12 00:36	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		06/23/12 00:36	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		06/23/12 00:36	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		06/23/12 00:36	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		06/23/12 00:36	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		06/23/12 00:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		06/23/12 00:36	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		06/23/12 00:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		06/23/12 00:36	95-50-1	
1,4-Dichlorobenzene	**3.9**	ug/L	1.0	0.33	1		06/23/12 00:36	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		06/23/12 00:36	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		06/23/12 00:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		06/23/12 00:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		06/23/12 00:36	75-35-4	
cis-1,2-Dichloroethene	**7.3**	ug/L	5.0	0.19	1		06/23/12 00:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		06/23/12 00:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		06/23/12 00:36	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		06/23/12 00:36	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		06/23/12 00:36	10061-01-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-1 **Lab ID: 92121375023** Collected: 06/15/12 10:35 Received: 06/15/12 14:15 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		06/23/12 00:36	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		06/23/12 00:36	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		06/23/12 00:36	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		06/23/12 00:36	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		06/23/12 00:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		06/23/12 00:36	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		06/23/12 00:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		06/23/12 00:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		06/23/12 00:36	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		06/23/12 00:36	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		06/23/12 00:36	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		06/23/12 00:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		06/23/12 00:36	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		06/23/12 00:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		06/23/12 00:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		06/23/12 00:36	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		06/23/12 00:36	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		06/23/12 00:36	75-01-4	
Xylene (Total)	**0.68J**	ug/L	5.0	0.66	1		06/23/12 00:36	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		06/23/12 00:36	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		06/23/12 00:36	1868-53-7	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		06/23/12 00:36	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		06/23/12 00:36	2037-26-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-1B **Lab ID: 92121375024** Collected: 06/15/12 10:00 Received: 06/15/12 14:15 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	06/19/12 13:10	06/21/12 20:47	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 20:47	7440-38-2	
Barium	**36.2J**	ug/L	100	5.0	1	06/19/12 13:10	06/21/12 20:47	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	06/19/12 13:10	06/21/12 20:47	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	06/19/12 13:10	06/21/12 20:47	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 20:47	7440-47-3	
Cobalt	**20.8**	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 20:47	7440-48-4	
Copper	**7.9J**	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 20:47	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 20:47	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	06/19/12 13:10	06/21/12 20:47	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	06/19/12 13:10	06/21/12 20:47	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 20:47	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	06/19/12 13:10	06/21/12 20:47	7440-28-0	
Vanadium	**5.8J**	ug/L	25.0	5.0	1	06/19/12 13:10	06/21/12 20:47	7440-62-2	
Zinc	**32.8**	ug/L	10.0	10.0	1	06/19/12 13:10	06/21/12 20:47	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		06/23/12 00:52	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		06/23/12 00:52	107-13-1	
Benzene	**3.1**	ug/L	1.0	0.25	1		06/23/12 00:52	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		06/23/12 00:52	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		06/23/12 00:52	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		06/23/12 00:52	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		06/23/12 00:52	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		06/23/12 00:52	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		06/23/12 00:52	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		06/23/12 00:52	56-23-5	
Chlorobenzene	**0.41J**	ug/L	3.0	0.23	1		06/23/12 00:52	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		06/23/12 00:52	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		06/23/12 00:52	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		06/23/12 00:52	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		06/23/12 00:52	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		06/23/12 00:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		06/23/12 00:52	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		06/23/12 00:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		06/23/12 00:52	95-50-1	
1,4-Dichlorobenzene	**2.6**	ug/L	1.0	0.33	1		06/23/12 00:52	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		06/23/12 00:52	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		06/23/12 00:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		06/23/12 00:52	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		06/23/12 00:52	75-35-4	
cis-1,2-Dichloroethene	**5.8**	ug/L	5.0	0.19	1		06/23/12 00:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		06/23/12 00:52	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		06/23/12 00:52	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		06/23/12 00:52	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		06/23/12 00:52	10061-01-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-1B **Lab ID: 92121375024** Collected: 06/15/12 10:00 Received: 06/15/12 14:15 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		06/23/12 00:52	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		06/23/12 00:52	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		06/23/12 00:52	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		06/23/12 00:52	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		06/23/12 00:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		06/23/12 00:52	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		06/23/12 00:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		06/23/12 00:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		06/23/12 00:52	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		06/23/12 00:52	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		06/23/12 00:52	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		06/23/12 00:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		06/23/12 00:52	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		06/23/12 00:52	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		06/23/12 00:52	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		06/23/12 00:52	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		06/23/12 00:52	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		06/23/12 00:52	75-01-4	
Xylene (Total)	**2.8J**	ug/L	5.0	0.66	1		06/23/12 00:52	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		06/23/12 00:52	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		06/23/12 00:52	1868-53-7	
1,2-Dichloroethane-d4 (S)	111	%	70-130		1		06/23/12 00:52	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		06/23/12 00:52	2037-26-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-2 **Lab ID: 92121375025** Collected: 06/15/12 09:30 Received: 06/15/12 14:15 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	06/19/12 13:10	06/21/12 20:51	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 20:51	7440-38-2	
Barium	**155**	ug/L	100	5.0	1	06/19/12 13:10	06/21/12 20:51	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	06/19/12 13:10	06/21/12 20:51	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	06/19/12 13:10	06/21/12 20:51	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 20:51	7440-47-3	
Cobalt	**801**	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 20:51	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 20:51	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 20:51	7439-92-1	
Nickel	**9.3J**	ug/L	50.0	5.0	1	06/19/12 13:10	06/21/12 20:51	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	06/19/12 13:10	06/21/12 20:51	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 20:51	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	06/19/12 13:10	06/21/12 20:51	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	06/19/12 13:10	06/21/12 20:51	7440-62-2	
Zinc	**21.3**	ug/L	10.0	10.0	1	06/19/12 13:10	06/21/12 20:51	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		06/23/12 01:08	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		06/23/12 01:08	107-13-1	
Benzene	**2.5**	ug/L	1.0	0.25	1		06/23/12 01:08	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		06/23/12 01:08	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		06/23/12 01:08	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		06/23/12 01:08	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		06/23/12 01:08	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		06/23/12 01:08	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		06/23/12 01:08	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		06/23/12 01:08	56-23-5	
Chlorobenzene	**1.6J**	ug/L	3.0	0.23	1		06/23/12 01:08	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		06/23/12 01:08	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		06/23/12 01:08	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		06/23/12 01:08	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		06/23/12 01:08	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		06/23/12 01:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		06/23/12 01:08	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		06/23/12 01:08	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		06/23/12 01:08	95-50-1	
1,4-Dichlorobenzene	**4.3**	ug/L	1.0	0.33	1		06/23/12 01:08	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		06/23/12 01:08	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		06/23/12 01:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		06/23/12 01:08	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		06/23/12 01:08	75-35-4	
cis-1,2-Dichloroethene	**18.2**	ug/L	5.0	0.19	1		06/23/12 01:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		06/23/12 01:08	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		06/23/12 01:08	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		06/23/12 01:08	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		06/23/12 01:08	10061-01-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-2 **Lab ID: 92121375025** Collected: 06/15/12 09:30 Received: 06/15/12 14:15 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		06/23/12 01:08	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		06/23/12 01:08	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		06/23/12 01:08	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		06/23/12 01:08	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		06/23/12 01:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		06/23/12 01:08	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		06/23/12 01:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		06/23/12 01:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		06/23/12 01:08	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		06/23/12 01:08	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		06/23/12 01:08	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		06/23/12 01:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		06/23/12 01:08	79-00-5	
Trichloroethene	**1.1**	ug/L	1.0	0.47	1		06/23/12 01:08	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		06/23/12 01:08	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		06/23/12 01:08	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		06/23/12 01:08	108-05-4	
Vinyl chloride	**1.1**	ug/L	1.0	0.62	1		06/23/12 01:08	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		06/23/12 01:08	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		06/23/12 01:08	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		06/23/12 01:08	1868-53-7	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		06/23/12 01:08	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		06/23/12 01:08	2037-26-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-14 **Lab ID: 92121375026** Collected: 06/15/12 09:00 Received: 06/15/12 14:15 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	06/19/12 13:10	06/21/12 21:04	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:04	7440-38-2	
Barium	**97.1J**	ug/L	100	5.0	1	06/19/12 13:10	06/21/12 21:04	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	06/19/12 13:10	06/21/12 21:04	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	06/19/12 13:10	06/21/12 21:04	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:04	7440-47-3	
Cobalt	**228**	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:04	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:04	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:04	7439-92-1	
Nickel	**15.3J**	ug/L	50.0	5.0	1	06/19/12 13:10	06/21/12 21:04	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	06/19/12 13:10	06/21/12 21:04	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:04	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	06/19/12 13:10	06/21/12 21:04	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	06/19/12 13:10	06/21/12 21:04	7440-62-2	
Zinc	**20.9**	ug/L	10.0	10.0	1	06/19/12 13:10	06/21/12 21:04	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		06/23/12 01:23	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		06/23/12 01:23	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		06/23/12 01:23	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		06/23/12 01:23	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		06/23/12 01:23	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		06/23/12 01:23	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		06/23/12 01:23	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		06/23/12 01:23	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		06/23/12 01:23	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		06/23/12 01:23	56-23-5	
Chlorobenzene	**0.92J**	ug/L	3.0	0.23	1		06/23/12 01:23	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		06/23/12 01:23	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		06/23/12 01:23	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		06/23/12 01:23	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		06/23/12 01:23	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		06/23/12 01:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		06/23/12 01:23	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		06/23/12 01:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		06/23/12 01:23	95-50-1	
1,4-Dichlorobenzene	**2.1**	ug/L	1.0	0.33	1		06/23/12 01:23	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		06/23/12 01:23	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		06/23/12 01:23	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		06/23/12 01:23	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		06/23/12 01:23	75-35-4	
cis-1,2-Dichloroethene	**9.1**	ug/L	5.0	0.19	1		06/23/12 01:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		06/23/12 01:23	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		06/23/12 01:23	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		06/23/12 01:23	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		06/23/12 01:23	10061-01-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-14 **Lab ID: 92121375026** Collected: 06/15/12 09:00 Received: 06/15/12 14:15 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		06/23/12 01:23	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		06/23/12 01:23	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		06/23/12 01:23	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		06/23/12 01:23	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		06/23/12 01:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		06/23/12 01:23	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		06/23/12 01:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		06/23/12 01:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		06/23/12 01:23	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		06/23/12 01:23	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		06/23/12 01:23	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		06/23/12 01:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		06/23/12 01:23	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		06/23/12 01:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		06/23/12 01:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		06/23/12 01:23	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		06/23/12 01:23	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		06/23/12 01:23	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		06/23/12 01:23	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		06/23/12 01:23	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		06/23/12 01:23	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		06/23/12 01:23	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		06/23/12 01:23	2037-26-5	
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		06/22/12 11:20	18496-25-8	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-17 **Lab ID: 92121375027** Collected: 06/15/12 08:15 Received: 06/15/12 14:15 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	06/19/12 13:10	06/21/12 21:08	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:08	7440-38-2	
Barium	**61.7J**	ug/L	100	5.0	1	06/19/12 13:10	06/21/12 21:08	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	06/19/12 13:10	06/21/12 21:08	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	06/19/12 13:10	06/21/12 21:08	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:08	7440-47-3	
Cobalt	**17.7**	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:08	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:08	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:08	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	06/19/12 13:10	06/21/12 21:08	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	06/19/12 13:10	06/21/12 21:08	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:08	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	06/19/12 13:10	06/21/12 21:08	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	06/19/12 13:10	06/21/12 21:08	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	06/19/12 13:10	06/21/12 21:08	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		06/23/12 01:39	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		06/23/12 01:39	107-13-1	
Benzene	**0.57J**	ug/L	1.0	0.25	1		06/23/12 01:39	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		06/23/12 01:39	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		06/23/12 01:39	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		06/23/12 01:39	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		06/23/12 01:39	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		06/23/12 01:39	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		06/23/12 01:39	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		06/23/12 01:39	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		06/23/12 01:39	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		06/23/12 01:39	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		06/23/12 01:39	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		06/23/12 01:39	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		06/23/12 01:39	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		06/23/12 01:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		06/23/12 01:39	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		06/23/12 01:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		06/23/12 01:39	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		06/23/12 01:39	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		06/23/12 01:39	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		06/23/12 01:39	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		06/23/12 01:39	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		06/23/12 01:39	75-35-4	
cis-1,2-Dichloroethene	**2.2J**	ug/L	5.0	0.19	1		06/23/12 01:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		06/23/12 01:39	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		06/23/12 01:39	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		06/23/12 01:39	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		06/23/12 01:39	10061-01-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-17 **Lab ID: 92121375027** Collected: 06/15/12 08:15 Received: 06/15/12 14:15 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		06/23/12 01:39	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		06/23/12 01:39	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		06/23/12 01:39	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		06/23/12 01:39	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		06/23/12 01:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		06/23/12 01:39	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		06/23/12 01:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		06/23/12 01:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		06/23/12 01:39	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		06/23/12 01:39	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		06/23/12 01:39	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		06/23/12 01:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		06/23/12 01:39	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		06/23/12 01:39	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		06/23/12 01:39	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		06/23/12 01:39	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		06/23/12 01:39	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		06/23/12 01:39	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		06/23/12 01:39	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		06/23/12 01:39	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		06/23/12 01:39	1868-53-7	
1,2-Dichloroethane-d4 (S)	111	%	70-130		1		06/23/12 01:39	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		06/23/12 01:39	2037-26-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: SW-3 **Lab ID: 92121375028** Collected: 06/15/12 11:20 Received: 06/15/12 14:15 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	06/19/12 13:10	06/21/12 21:11	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:11	7440-38-2	
Barium	**32.7J**	ug/L	100	5.0	1	06/19/12 13:10	06/21/12 21:11	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	06/19/12 13:10	06/21/12 21:11	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	06/19/12 13:10	06/21/12 21:11	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:11	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:11	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:11	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:11	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	06/19/12 13:10	06/21/12 21:11	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	06/19/12 13:10	06/21/12 21:11	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:11	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	06/19/12 13:10	06/21/12 21:11	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	06/19/12 13:10	06/21/12 21:11	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	06/19/12 13:10	06/21/12 21:11	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		06/23/12 01:55	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		06/23/12 01:55	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		06/23/12 01:55	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		06/23/12 01:55	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		06/23/12 01:55	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		06/23/12 01:55	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		06/23/12 01:55	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		06/23/12 01:55	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		06/23/12 01:55	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		06/23/12 01:55	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		06/23/12 01:55	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		06/23/12 01:55	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		06/23/12 01:55	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		06/23/12 01:55	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		06/23/12 01:55	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		06/23/12 01:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		06/23/12 01:55	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		06/23/12 01:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		06/23/12 01:55	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		06/23/12 01:55	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		06/23/12 01:55	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		06/23/12 01:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		06/23/12 01:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		06/23/12 01:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		06/23/12 01:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		06/23/12 01:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		06/23/12 01:55	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		06/23/12 01:55	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		06/23/12 01:55	10061-01-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: SW-3 **Lab ID: 92121375028** Collected: 06/15/12 11:20 Received: 06/15/12 14:15 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		06/23/12 01:55	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		06/23/12 01:55	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		06/23/12 01:55	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		06/23/12 01:55	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		06/23/12 01:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		06/23/12 01:55	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		06/23/12 01:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		06/23/12 01:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		06/23/12 01:55	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		06/23/12 01:55	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		06/23/12 01:55	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		06/23/12 01:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		06/23/12 01:55	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		06/23/12 01:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		06/23/12 01:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		06/23/12 01:55	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		06/23/12 01:55	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		06/23/12 01:55	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		06/23/12 01:55	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		06/23/12 01:55	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		06/23/12 01:55	1868-53-7	
1,2-Dichloroethane-d4 (S)	120	%	70-130		1		06/23/12 01:55	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		06/23/12 01:55	2037-26-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: SW-4R **Lab ID: 92121375029** Collected: 06/15/12 10:50 Received: 06/15/12 14:15 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	06/19/12 13:10	06/21/12 21:14	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:14	7440-38-2	
Barium	**32.8J**	ug/L	100	5.0	1	06/19/12 13:10	06/21/12 21:14	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	06/19/12 13:10	06/21/12 21:14	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	06/19/12 13:10	06/21/12 21:14	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:14	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:14	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:14	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:14	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	06/19/12 13:10	06/21/12 21:14	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	06/19/12 13:10	06/21/12 21:14	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:14	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	06/19/12 13:10	06/21/12 21:14	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	06/19/12 13:10	06/21/12 21:14	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	06/19/12 13:10	06/21/12 21:14	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		06/23/12 02:10	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		06/23/12 02:10	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		06/23/12 02:10	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		06/23/12 02:10	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		06/23/12 02:10	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		06/23/12 02:10	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		06/23/12 02:10	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		06/23/12 02:10	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		06/23/12 02:10	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		06/23/12 02:10	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		06/23/12 02:10	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		06/23/12 02:10	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		06/23/12 02:10	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		06/23/12 02:10	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		06/23/12 02:10	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		06/23/12 02:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		06/23/12 02:10	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		06/23/12 02:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		06/23/12 02:10	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		06/23/12 02:10	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		06/23/12 02:10	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		06/23/12 02:10	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		06/23/12 02:10	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		06/23/12 02:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		06/23/12 02:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		06/23/12 02:10	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		06/23/12 02:10	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		06/23/12 02:10	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		06/23/12 02:10	10061-01-5	

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9800 Kincey Ave. Suite 100
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(704)875-9092

ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: SW-4R **Lab ID: 92121375029** Collected: 06/15/12 10:50 Received: 06/15/12 14:15 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		06/23/12 02:10	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		06/23/12 02:10	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		06/23/12 02:10	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		06/23/12 02:10	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		06/23/12 02:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		06/23/12 02:10	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		06/23/12 02:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		06/23/12 02:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		06/23/12 02:10	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		06/23/12 02:10	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		06/23/12 02:10	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		06/23/12 02:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		06/23/12 02:10	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		06/23/12 02:10	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		06/23/12 02:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		06/23/12 02:10	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		06/23/12 02:10	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		06/23/12 02:10	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		06/23/12 02:10	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		06/23/12 02:10	460-00-4	
Dibromofluoromethane (S)	113	%	70-130		1		06/23/12 02:10	1868-53-7	
1,2-Dichloroethane-d4 (S)	115	%	70-130		1		06/23/12 02:10	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		06/23/12 02:10	2037-26-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: SW-5 **Lab ID: 92121375030** Collected: 06/15/12 11:10 Received: 06/15/12 14:15 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	06/19/12 13:10	06/21/12 21:17	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:17	7440-38-2	
Barium	**32.7J**	ug/L	100	5.0	1	06/19/12 13:10	06/21/12 21:17	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	06/19/12 13:10	06/21/12 21:17	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	06/19/12 13:10	06/21/12 21:17	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:17	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:17	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:17	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:17	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	06/19/12 13:10	06/21/12 21:17	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	06/19/12 13:10	06/21/12 21:17	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:17	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	06/19/12 13:10	06/21/12 21:17	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	06/19/12 13:10	06/21/12 21:17	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	06/19/12 13:10	06/21/12 21:17	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		06/23/12 02:26	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		06/23/12 02:26	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		06/23/12 02:26	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		06/23/12 02:26	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		06/23/12 02:26	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		06/23/12 02:26	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		06/23/12 02:26	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		06/23/12 02:26	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		06/23/12 02:26	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		06/23/12 02:26	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		06/23/12 02:26	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		06/23/12 02:26	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		06/23/12 02:26	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		06/23/12 02:26	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		06/23/12 02:26	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		06/23/12 02:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		06/23/12 02:26	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		06/23/12 02:26	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		06/23/12 02:26	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		06/23/12 02:26	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		06/23/12 02:26	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		06/23/12 02:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		06/23/12 02:26	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		06/23/12 02:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		06/23/12 02:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		06/23/12 02:26	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		06/23/12 02:26	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		06/23/12 02:26	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		06/23/12 02:26	10061-01-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: SW-5 **Lab ID: 92121375030** Collected: 06/15/12 11:10 Received: 06/15/12 14:15 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		06/23/12 02:26	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		06/23/12 02:26	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		06/23/12 02:26	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		06/23/12 02:26	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		06/23/12 02:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		06/23/12 02:26	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		06/23/12 02:26	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		06/23/12 02:26	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		06/23/12 02:26	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		06/23/12 02:26	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		06/23/12 02:26	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		06/23/12 02:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		06/23/12 02:26	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		06/23/12 02:26	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		06/23/12 02:26	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		06/23/12 02:26	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		06/23/12 02:26	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		06/23/12 02:26	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		06/23/12 02:26	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		06/23/12 02:26	460-00-4	
Dibromofluoromethane (S)	111	%	70-130		1		06/23/12 02:26	1868-53-7	
1,2-Dichloroethane-d4 (S)	124	%	70-130		1		06/23/12 02:26	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		06/23/12 02:26	2037-26-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: SW-6 **Lab ID: 92121375031** Collected: 06/15/12 11:35 Received: 06/15/12 14:15 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	06/19/12 13:10	06/21/12 21:21	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:21	7440-38-2	
Barium	**19.8J**	ug/L	100	5.0	1	06/19/12 13:10	06/21/12 21:21	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	06/19/12 13:10	06/21/12 21:21	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	06/19/12 13:10	06/21/12 21:21	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:21	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:21	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:21	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:21	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	06/19/12 13:10	06/21/12 21:21	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	06/19/12 13:10	06/21/12 21:21	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:21	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	06/19/12 13:10	06/21/12 21:21	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	06/19/12 13:10	06/21/12 21:21	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	06/19/12 13:10	06/21/12 21:21	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		06/23/12 02:42	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		06/23/12 02:42	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		06/23/12 02:42	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		06/23/12 02:42	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		06/23/12 02:42	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		06/23/12 02:42	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		06/23/12 02:42	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		06/23/12 02:42	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		06/23/12 02:42	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		06/23/12 02:42	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		06/23/12 02:42	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		06/23/12 02:42	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		06/23/12 02:42	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		06/23/12 02:42	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		06/23/12 02:42	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		06/23/12 02:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		06/23/12 02:42	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		06/23/12 02:42	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		06/23/12 02:42	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		06/23/12 02:42	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		06/23/12 02:42	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		06/23/12 02:42	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		06/23/12 02:42	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		06/23/12 02:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		06/23/12 02:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		06/23/12 02:42	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		06/23/12 02:42	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		06/23/12 02:42	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		06/23/12 02:42	10061-01-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: SW-6 **Lab ID: 92121375031** Collected: 06/15/12 11:35 Received: 06/15/12 14:15 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		06/23/12 02:42	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		06/23/12 02:42	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		06/23/12 02:42	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		06/23/12 02:42	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		06/23/12 02:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		06/23/12 02:42	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		06/23/12 02:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		06/23/12 02:42	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		06/23/12 02:42	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		06/23/12 02:42	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		06/23/12 02:42	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		06/23/12 02:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		06/23/12 02:42	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		06/23/12 02:42	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		06/23/12 02:42	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		06/23/12 02:42	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		06/23/12 02:42	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		06/23/12 02:42	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		06/23/12 02:42	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		06/23/12 02:42	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		06/23/12 02:42	1868-53-7	
1,2-Dichloroethane-d4 (S)	111	%	70-130		1		06/23/12 02:42	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		06/23/12 02:42	2037-26-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: EB **Lab ID: 92121375032** Collected: 06/15/12 06:40 Received: 06/15/12 14:15 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	06/19/12 13:10	06/21/12 21:24	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:24	7440-38-2	
Barium	ND	ug/L	100	5.0	1	06/19/12 13:10	06/21/12 21:24	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	06/19/12 13:10	06/21/12 21:24	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	06/19/12 13:10	06/21/12 21:24	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:24	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:24	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:24	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:24	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	06/19/12 13:10	06/21/12 21:24	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	06/19/12 13:10	06/21/12 21:24	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:24	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	06/19/12 13:10	06/21/12 21:24	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	06/19/12 13:10	06/21/12 21:24	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	06/19/12 13:10	06/21/12 21:24	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		06/23/12 02:57	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		06/23/12 02:57	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		06/23/12 02:57	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		06/23/12 02:57	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		06/23/12 02:57	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		06/23/12 02:57	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		06/23/12 02:57	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		06/23/12 02:57	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		06/23/12 02:57	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		06/23/12 02:57	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		06/23/12 02:57	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		06/23/12 02:57	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		06/23/12 02:57	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		06/23/12 02:57	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		06/23/12 02:57	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		06/23/12 02:57	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		06/23/12 02:57	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		06/23/12 02:57	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		06/23/12 02:57	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		06/23/12 02:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		06/23/12 02:57	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		06/23/12 02:57	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		06/23/12 02:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		06/23/12 02:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		06/23/12 02:57	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		06/23/12 02:57	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		06/23/12 02:57	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		06/23/12 02:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		06/23/12 02:57	107-06-2	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: EB **Lab ID: 92121375032** Collected: 06/15/12 06:40 Received: 06/15/12 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		06/23/12 02:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		06/23/12 02:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		06/23/12 02:57	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		06/23/12 02:57	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		06/23/12 02:57	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		06/23/12 02:57	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		06/23/12 02:57	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		06/23/12 02:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		06/23/12 02:57	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		06/23/12 02:57	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		06/23/12 02:57	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		06/23/12 02:57	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		06/23/12 02:57	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		06/23/12 02:57	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		06/23/12 02:57	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		06/23/12 02:57	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		06/23/12 02:57	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		06/23/12 02:57	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		06/23/12 02:57	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		06/23/12 02:57	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		06/23/12 02:57	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		06/23/12 02:57	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		06/23/12 02:57	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		06/23/12 02:57	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		06/23/12 02:57	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		06/23/12 02:57	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		06/23/12 02:57	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		06/23/12 02:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		06/23/12 02:57	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		06/23/12 02:57	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		06/23/12 02:57	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		06/23/12 02:57	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		06/23/12 02:57	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		06/23/12 02:57	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		06/23/12 02:57	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		06/23/12 02:57	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		06/23/12 02:57	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		06/23/12 02:57	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		06/23/12 02:57	2037-26-5	
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		06/19/12 15:35	18496-25-8	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: FB **Lab ID: 92121375033** Collected: 06/15/12 06:50 Received: 06/15/12 14:15 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	06/19/12 13:10	06/21/12 21:27	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:27	7440-38-2	
Barium	ND	ug/L	100	5.0	1	06/19/12 13:10	06/21/12 21:27	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	06/19/12 13:10	06/21/12 21:27	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	06/19/12 13:10	06/21/12 21:27	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:27	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:27	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:27	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:27	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	06/19/12 13:10	06/21/12 21:27	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	06/19/12 13:10	06/21/12 21:27	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:27	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	06/19/12 13:10	06/21/12 21:27	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	06/19/12 13:10	06/21/12 21:27	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	06/19/12 13:10	06/21/12 21:27	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		06/23/12 03:13	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		06/23/12 03:13	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		06/23/12 03:13	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		06/23/12 03:13	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		06/23/12 03:13	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		06/23/12 03:13	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		06/23/12 03:13	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		06/23/12 03:13	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		06/23/12 03:13	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		06/23/12 03:13	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		06/23/12 03:13	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		06/23/12 03:13	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		06/23/12 03:13	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		06/23/12 03:13	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		06/23/12 03:13	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		06/23/12 03:13	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		06/23/12 03:13	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		06/23/12 03:13	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		06/23/12 03:13	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		06/23/12 03:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		06/23/12 03:13	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		06/23/12 03:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		06/23/12 03:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		06/23/12 03:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		06/23/12 03:13	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		06/23/12 03:13	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		06/23/12 03:13	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		06/23/12 03:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		06/23/12 03:13	107-06-2	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: FB **Lab ID: 92121375033** Collected: 06/15/12 06:50 Received: 06/15/12 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		06/23/12 03:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		06/23/12 03:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		06/23/12 03:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		06/23/12 03:13	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		06/23/12 03:13	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		06/23/12 03:13	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		06/23/12 03:13	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		06/23/12 03:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		06/23/12 03:13	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		06/23/12 03:13	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		06/23/12 03:13	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		06/23/12 03:13	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		06/23/12 03:13	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		06/23/12 03:13	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		06/23/12 03:13	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		06/23/12 03:13	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		06/23/12 03:13	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		06/23/12 03:13	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		06/23/12 03:13	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		06/23/12 03:13	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		06/23/12 03:13	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		06/23/12 03:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		06/23/12 03:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		06/23/12 03:13	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		06/23/12 03:13	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		06/23/12 03:13	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		06/23/12 03:13	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		06/23/12 03:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		06/23/12 03:13	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		06/23/12 03:13	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		06/23/12 03:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		06/23/12 03:13	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		06/23/12 03:13	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		06/23/12 03:13	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		06/23/12 03:13	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		06/23/12 03:13	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		06/23/12 03:13	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		06/23/12 03:13	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		06/23/12 03:13	2037-26-5	

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9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: TB **Lab ID: 92121375034** Collected: 06/15/12 00:00 Received: 06/15/12 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		06/23/12 03:29	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		06/23/12 03:29	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		06/23/12 03:29	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		06/23/12 03:29	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		06/23/12 03:29	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		06/23/12 03:29	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		06/23/12 03:29	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		06/23/12 03:29	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		06/23/12 03:29	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		06/23/12 03:29	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		06/23/12 03:29	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		06/23/12 03:29	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		06/23/12 03:29	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		06/23/12 03:29	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		06/23/12 03:29	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		06/23/12 03:29	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		06/23/12 03:29	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		06/23/12 03:29	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		06/23/12 03:29	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		06/23/12 03:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		06/23/12 03:29	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		06/23/12 03:29	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		06/23/12 03:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		06/23/12 03:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		06/23/12 03:29	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		06/23/12 03:29	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		06/23/12 03:29	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		06/23/12 03:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		06/23/12 03:29	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		06/23/12 03:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		06/23/12 03:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		06/23/12 03:29	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		06/23/12 03:29	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		06/23/12 03:29	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		06/23/12 03:29	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		06/23/12 03:29	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		06/23/12 03:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		06/23/12 03:29	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		06/23/12 03:29	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		06/23/12 03:29	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		06/23/12 03:29	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		06/23/12 03:29	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		06/23/12 03:29	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		06/23/12 03:29	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		06/23/12 03:29	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		06/23/12 03:29	75-09-2	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: TB **Lab ID: 92121375034** Collected: 06/15/12 00:00 Received: 06/15/12 14:15 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		06/23/12 03:29	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		06/23/12 03:29	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		06/23/12 03:29	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		06/23/12 03:29	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		06/23/12 03:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		06/23/12 03:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		06/23/12 03:29	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		06/23/12 03:29	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		06/23/12 03:29	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		06/23/12 03:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		06/23/12 03:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		06/23/12 03:29	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		06/23/12 03:29	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		06/23/12 03:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		06/23/12 03:29	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		06/23/12 03:29	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		06/23/12 03:29	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		06/23/12 03:29	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		06/23/12 03:29	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		06/23/12 03:29	1868-53-7	
1,2-Dichloroethane-d4 (S)	110	%	70-130		1		06/23/12 03:29	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		06/23/12 03:29	2037-26-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-23 **Lab ID: 92121375035** Collected: 06/14/12 11:25 Received: 06/15/12 14:15 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	06/19/12 13:10	06/21/12 21:30	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:30	7440-38-2	
Barium	**46.0J**	ug/L	100	5.0	1	06/19/12 13:10	06/21/12 21:30	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	06/19/12 13:10	06/21/12 21:30	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	06/19/12 13:10	06/21/12 21:30	7440-43-9	
Chromium	**6.5J**	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:30	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:30	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:30	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:30	7439-92-1	
Nickel	**5.2J**	ug/L	50.0	5.0	1	06/19/12 13:10	06/21/12 21:30	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	06/19/12 13:10	06/21/12 21:30	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	06/19/12 13:10	06/21/12 21:30	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	06/19/12 13:10	06/21/12 21:30	7440-28-0	
Vanadium	**6.3J**	ug/L	25.0	5.0	1	06/19/12 13:10	06/21/12 21:30	7440-62-2	
Zinc	**10.2**	ug/L	10.0	10.0	1	06/19/12 13:10	06/21/12 21:30	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		06/23/12 03:44	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		06/23/12 03:44	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		06/23/12 03:44	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		06/23/12 03:44	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		06/23/12 03:44	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		06/23/12 03:44	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		06/23/12 03:44	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		06/23/12 03:44	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		06/23/12 03:44	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		06/23/12 03:44	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		06/23/12 03:44	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		06/23/12 03:44	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		06/23/12 03:44	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		06/23/12 03:44	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		06/23/12 03:44	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		06/23/12 03:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		06/23/12 03:44	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		06/23/12 03:44	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		06/23/12 03:44	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		06/23/12 03:44	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		06/23/12 03:44	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		06/23/12 03:44	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		06/23/12 03:44	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		06/23/12 03:44	75-35-4	
cis-1,2-Dichloroethene	**2.2J**	ug/L	5.0	0.19	1		06/23/12 03:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		06/23/12 03:44	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		06/23/12 03:44	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		06/23/12 03:44	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		06/23/12 03:44	10061-01-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Sample: MW-23 **Lab ID: 92121375035** Collected: 06/14/12 11:25 Received: 06/15/12 14:15 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		06/23/12 03:44	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		06/23/12 03:44	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		06/23/12 03:44	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		06/23/12 03:44	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		06/23/12 03:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		06/23/12 03:44	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		06/23/12 03:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		06/23/12 03:44	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		06/23/12 03:44	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		06/23/12 03:44	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		06/23/12 03:44	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		06/23/12 03:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		06/23/12 03:44	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		06/23/12 03:44	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		06/23/12 03:44	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		06/23/12 03:44	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		06/23/12 03:44	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		06/23/12 03:44	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		06/23/12 03:44	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		06/23/12 03:44	460-00-4	
Dibromofluoromethane (S)	112	%	70-130		1		06/23/12 03:44	1868-53-7	
1,2-Dichloroethane-d4 (S)	115	%	70-130		1		06/23/12 03:44	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		06/23/12 03:44	2037-26-5	

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

QC Batch: MPRP/10834 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 92121375001, 92121375002, 92121375003, 92121375004, 92121375005, 92121375006, 92121375007

METHOD BLANK: 780517 Matrix: Water
Associated Lab Samples: 92121375001, 92121375002, 92121375003, 92121375004, 92121375005, 92121375006, 92121375007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	6.0	06/19/12 21:21	
Arsenic	ug/L	ND	10.0	06/19/12 21:21	
Barium	ug/L	ND	100	06/19/12 21:21	
Beryllium	ug/L	ND	1.0	06/19/12 21:21	
Cadmium	ug/L	ND	1.0	06/19/12 21:21	
Chromium	ug/L	ND	10.0	06/19/12 21:21	
Cobalt	ug/L	ND	10.0	06/19/12 21:21	
Copper	ug/L	ND	10.0	06/19/12 21:21	
Iron	ug/L	ND	300	06/19/12 21:21	
Lead	ug/L	ND	10.0	06/19/12 21:21	
Nickel	ug/L	ND	50.0	06/19/12 21:21	
Selenium	ug/L	ND	10.0	06/19/12 21:21	
Silver	ug/L	ND	10.0	06/19/12 21:21	
Thallium	ug/L	ND	5.5	06/19/12 21:21	
Vanadium	ug/L	ND	25.0	06/19/12 21:21	
Zinc	ug/L	ND	10.0	06/19/12 21:21	

LABORATORY CONTROL SAMPLE: 780518

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	492	98	80-120	
Arsenic	ug/L	500	503	101	80-120	
Barium	ug/L	500	488	98	80-120	
Beryllium	ug/L	500	516	103	80-120	
Cadmium	ug/L	500	510	102	80-120	
Chromium	ug/L	500	517	103	80-120	
Cobalt	ug/L	500	500	100	80-120	
Copper	ug/L	500	491	98	80-120	
Iron	ug/L	5000	5020	100	80-120	
Lead	ug/L	500	503	101	80-120	
Nickel	ug/L	500	501	100	80-120	
Selenium	ug/L	500	494	99	80-120	
Silver	ug/L	250	251	100	80-120	
Thallium	ug/L	500	480	96	80-120	
Vanadium	ug/L	500	503	101	80-120	
Zinc	ug/L	500	504	101	80-120	

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

MATRIX SPIKE SAMPLE: 780519

Parameter	Units	92121335002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	497	99	75-125	
Arsenic	ug/L	80.0	500	595	103	75-125	
Barium	ug/L	46.0	500	524	96	75-125	
Beryllium	ug/L	ND	500	513	103	75-125	
Cadmium	ug/L	ND	500	498	100	75-125	
Chromium	ug/L	ND	500	509	102	75-125	
Cobalt	ug/L	ND	500	484	97	75-125	
Copper	ug/L	ND	500	495	99	75-125	
Iron	ug/L	16900	5000	21300	89	75-125	
Lead	ug/L	ND	500	488	98	75-125	
Nickel	ug/L	ND	500	488	98	75-125	
Selenium	ug/L	ND	500	496	99	75-125	
Silver	ug/L	ND	250	251	100	75-125	
Thallium	ug/L	ND	500	461	92	75-125	
Vanadium	ug/L	ND	500	503	100	75-125	
Zinc	ug/L	ND	500	499	100	75-125	

SAMPLE DUPLICATE: 780520

Parameter	Units	92121335003 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	ND	ND		25	
Arsenic	ug/L	ND	ND		25	
Barium	ug/L	20.4	20.7J	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	
Iron	ug/L	3040	3110	2	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	
Vanadium	ug/L	ND	ND		25	
Zinc	ug/L	ND	ND		25	

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

QC Batch: MPRP/10841 — Analysis Method: EPA 6010
QC Batch Method: EPA 3010 — Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 92121375008, 92121375011, 92121375012, 92121375013, 92121375023, 92121375024, 92121375025, 92121375026, 92121375027, 92121375028, 92121375029, 92121375030, 92121375031, 92121375032, 92121375033, 92121375035

METHOD BLANK: 781163 — Matrix: Water
Associated Lab Samples: 92121375008, 92121375011, 92121375012, 92121375013, 92121375023, 92121375024, 92121375025, 92121375026, 92121375027, 92121375028, 92121375029, 92121375030, 92121375031, 92121375032, 92121375033, 92121375035

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	6.0	06/21/12 19:54	
Arsenic	ug/L	ND	10.0	06/21/12 19:54	
Barium	ug/L	ND	100	06/21/12 19:54	
Beryllium	ug/L	ND	1.0	06/21/12 19:54	
Cadmium	ug/L	ND	1.0	06/21/12 19:54	
Chromium	ug/L	ND	10.0	06/21/12 19:54	
Cobalt	ug/L	ND	10.0	06/21/12 19:54	
Copper	ug/L	ND	10.0	06/21/12 19:54	
Iron	ug/L	ND	300	06/21/12 19:54	
Lead	ug/L	ND	10.0	06/21/12 19:54	
Nickel	ug/L	ND	50.0	06/21/12 19:54	
Selenium	ug/L	ND	10.0	06/21/12 19:54	
Silver	ug/L	ND	10.0	06/21/12 19:54	
Thallium	ug/L	ND	5.5	06/21/12 19:54	
Vanadium	ug/L	ND	25.0	06/21/12 19:54	
Zinc	ug/L	ND	10.0	06/21/12 19:54	

LABORATORY CONTROL SAMPLE: 781164

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	478	96	80-120	
Arsenic	ug/L	500	482	96	80-120	
Barium	ug/L	500	476	95	80-120	
Beryllium	ug/L	500	489	98	80-120	
Cadmium	ug/L	500	486	97	80-120	
Chromium	ug/L	500	507	101	80-120	
Cobalt	ug/L	500	482	96	80-120	
Copper	ug/L	500	483	97	80-120	
Iron	ug/L	5000	4940	99	80-120	
Lead	ug/L	500	488	98	80-120	
Nickel	ug/L	500	482	96	80-120	
Selenium	ug/L	500	470	94	80-120	
Silver	ug/L	250	242	97	80-120	
Thallium	ug/L	500	471	94	80-120	
Vanadium	ug/L	500	487	97	80-120	
Zinc	ug/L	500	485	97	80-120	

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

MATRIX SPIKE SAMPLE: 781165

Parameter	Units	92121375008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	486	97	75-125	
Arsenic	ug/L	ND	500	490	98	75-125	
Barium	ug/L	26.4J	500	509	97	75-125	
Beryllium	ug/L	ND	500	498	100	75-125	
Cadmium	ug/L	ND	500	491	98	75-125	
Chromium	ug/L	ND	500	517	103	75-125	
Cobalt	ug/L	ND	500	494	98	75-125	
Copper	ug/L	ND	500	498	99	75-125	
Iron	ug/L	2960	5000	8110	103	75-125	
Lead	ug/L	ND	500	491	98	75-125	
Nickel	ug/L	ND	500	492	98	75-125	
Selenium	ug/L	ND	500	477	95	75-125	
Silver	ug/L	ND	250	246	98	75-125	
Thallium	ug/L	ND	500	474	94	75-125	
Vanadium	ug/L	ND	500	500	99	75-125	
Zinc	ug/L	ND	500	499	98	75-125	

SAMPLE DUPLICATE: 781166

Parameter	Units	92121392001 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	ND	ND		25	
Arsenic	ug/L	ND	ND		25	
Barium	ug/L	9.2J	9.2J	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	
Iron	ug/L	1770	1680	6	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	
Vanadium	ug/L	5.2J	ND		25	
Zinc	ug/L	ND	ND		25	

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

QC Batch: MPRP/10842 | Analysis Method: EPA 6010
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 92121375014, 92121375015, 92121375016, 92121375017, 92121375018, 92121375019, 92121375020, 92121375021, 92121375022

METHOD BLANK: 781167 | Matrix: Water
Associated Lab Samples: 92121375014, 92121375015, 92121375016, 92121375017, 92121375018, 92121375019, 92121375020, 92121375021, 92121375022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	6.0	06/21/12 21:46	
Arsenic	ug/L	ND	10.0	06/21/12 21:46	
Barium	ug/L	ND	100	06/21/12 21:46	
Beryllium	ug/L	ND	1.0	06/21/12 21:46	
Cadmium	ug/L	ND	1.0	06/21/12 21:46	
Chromium	ug/L	ND	10.0	06/21/12 21:46	
Cobalt	ug/L	ND	10.0	06/21/12 21:46	
Copper	ug/L	ND	10.0	06/21/12 21:46	
Iron	ug/L	ND	300	06/22/12 16:17	
Lead	ug/L	ND	10.0	06/21/12 21:46	
Nickel	ug/L	ND	50.0	06/21/12 21:46	
Selenium	ug/L	ND	10.0	06/21/12 21:46	
Silver	ug/L	ND	10.0	06/21/12 21:46	
Thallium	ug/L	ND	5.5	06/21/12 21:46	
Vanadium	ug/L	ND	25.0	06/21/12 21:46	
Zinc	ug/L	ND	10.0	06/21/12 21:46	

LABORATORY CONTROL SAMPLE: 781168

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	479	96	80-120	
Arsenic	ug/L	500	482	96	80-120	
Barium	ug/L	500	478	96	80-120	
Beryllium	ug/L	500	493	99	80-120	
Cadmium	ug/L	500	490	98	80-120	
Chromium	ug/L	500	512	102	80-120	
Cobalt	ug/L	500	487	97	80-120	
Copper	ug/L	500	484	97	80-120	
Iron	ug/L	5000	4970	99	80-120	
Lead	ug/L	500	490	98	80-120	
Nickel	ug/L	500	485	97	80-120	
Selenium	ug/L	500	474	95	80-120	
Silver	ug/L	250	245	98	80-120	
Thallium	ug/L	500	470	94	80-120	
Vanadium	ug/L	500	488	98	80-120	
Zinc	ug/L	500	490	98	80-120	

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 781171 781172

Parameter	Units	92121392014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	ND	500	500	485	486	97	97	75-125	0	25	
Arsenic	ug/L	ND	500	500	492	495	98	99	75-125	1	25	
Barium	ug/L	82.2J	500	500	546	547	93	93	75-125	0	25	
Beryllium	ug/L	ND	500	500	495	494	99	99	75-125	0	25	
Cadmium	ug/L	ND	500	500	480	480	96	96	75-125	0	25	
Chromium	ug/L	ND	500	500	510	509	102	102	75-125	0	25	
Cobalt	ug/L	ND	500	500	475	474	95	95	75-125	0	25	
Copper	ug/L	ND	500	500	485	485	97	97	75-125	0	25	
Iron	ug/L	1680	5000	5000	6550	6560	98	98	75-125	0	25	
Lead	ug/L	ND	500	500	471	472	94	94	75-125	0	25	
Nickel	ug/L	ND	500	500	468	468	94	94	75-125	0	25	
Selenium	ug/L	ND	500	500	470	479	94	96	75-125	2	25	
Silver	ug/L	ND	250	250	245	245	98	98	75-125	0	25	
Thallium	ug/L	ND	500	500	449	458	90	92	75-125	2	25	
Vanadium	ug/L	ND	500	500	491	490	98	98	75-125	0	25	
Zinc	ug/L	ND	500	500	493	493	98	98	75-125	0	25	

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

QC Batch: MSV/19520 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 92121375001, 92121375002, 92121375003, 92121375004, 92121375005, 92121375006, 92121375007, 92121375008, 92121375011, 92121375012, 92121375013, 92121375014, 92121375015, 92121375016, 92121375017, 92121375018, 92121375019, 92121375020, 92121375021, 92121375022

METHOD BLANK: 783020 Matrix: Water
Associated Lab Samples: 92121375001, 92121375002, 92121375003, 92121375004, 92121375005, 92121375006, 92121375007, 92121375008, 92121375011, 92121375012, 92121375013, 92121375014, 92121375015, 92121375016, 92121375017, 92121375018, 92121375019, 92121375020, 92121375021, 92121375022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	06/21/12 23:20	
1,1,1-Trichloroethane	ug/L	ND	1.0	06/21/12 23:20	
1,1,2,2-Tetrachloroethane	ug/L	ND	3.0	06/21/12 23:20	
1,1,2-Trichloroethane	ug/L	ND	1.0	06/21/12 23:20	
1,1-Dichloroethane	ug/L	ND	5.0	06/21/12 23:20	
1,1-Dichloroethene	ug/L	ND	5.0	06/21/12 23:20	
1,1-Dichloropropene	ug/L	ND	5.0	06/21/12 23:20	
1,2,3-Trichloropropane	ug/L	ND	1.0	06/21/12 23:20	
1,2,4-Trichlorobenzene	ug/L	ND	10.0	06/21/12 23:20	
1,2-Dibromo-3-chloropropane	ug/L	ND	13.0	06/21/12 23:20	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	06/21/12 23:20	
1,2-Dichlorobenzene	ug/L	ND	5.0	06/21/12 23:20	
1,2-Dichloroethane	ug/L	ND	1.0	06/21/12 23:20	
1,2-Dichloropropane	ug/L	ND	1.0	06/21/12 23:20	
1,3-Dichlorobenzene	ug/L	ND	5.0	06/21/12 23:20	
1,3-Dichloropropane	ug/L	ND	1.0	06/21/12 23:20	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/21/12 23:20	
2,2-Dichloropropane	ug/L	ND	15.0	06/21/12 23:20	
2-Butanone (MEK)	ug/L	ND	100	06/21/12 23:20	
2-Hexanone	ug/L	ND	50.0	06/21/12 23:20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	06/21/12 23:20	
Acetone	ug/L	ND	100	06/21/12 23:20	
Acetonitrile	ug/L	ND	55.0	06/21/12 23:20	
Acrolein	ug/L	ND	53.0	06/21/12 23:20	
Acrylonitrile	ug/L	ND	200	06/21/12 23:20	
Allyl chloride	ug/L	ND	10.0	06/21/12 23:20	
Benzene	ug/L	ND	1.0	06/21/12 23:20	
Bromochloromethane	ug/L	ND	3.0	06/21/12 23:20	
Bromodichloromethane	ug/L	ND	1.0	06/21/12 23:20	
Bromoform	ug/L	ND	3.0	06/21/12 23:20	
Bromomethane	ug/L	ND	10.0	06/21/12 23:20	
Carbon disulfide	ug/L	ND	100	06/21/12 23:20	
Carbon tetrachloride	ug/L	ND	1.0	06/21/12 23:20	
Chlorobenzene	ug/L	ND	3.0	06/21/12 23:20	
Chloroethane	ug/L	ND	10.0	06/21/12 23:20	
Chloroform	ug/L	ND	5.0	06/21/12 23:20	
Chloromethane	ug/L	ND	1.0	06/21/12 23:20	
Chloroprene	ug/L	ND	20.0	06/21/12 23:20	
cis-1,2-Dichloroethene	ug/L	ND	5.0	06/21/12 23:20	

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

METHOD BLANK: 783020 Matrix: Water

Associated Lab Samples: 92121375001, 92121375002, 92121375003, 92121375004, 92121375005, 92121375006, 92121375007, 92121375008, 92121375011, 92121375012, 92121375013, 92121375014, 92121375015, 92121375016, 92121375017, 92121375018, 92121375019, 92121375020, 92121375021, 92121375022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	1.0	06/21/12 23:20	
Dibromochloromethane	ug/L	ND	3.0	06/21/12 23:20	
Dibromomethane	ug/L	ND	10.0	06/21/12 23:20	
Dichlorodifluoromethane	ug/L	ND	5.0	06/21/12 23:20	
Ethyl methacrylate	ug/L	ND	10.0	06/21/12 23:20	
Ethylbenzene	ug/L	ND	1.0	06/21/12 23:20	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	06/21/12 23:20	
Iodomethane	ug/L	ND	10.0	06/21/12 23:20	
Isobutanol	ug/L	ND	100	06/21/12 23:20	
Methacrylonitrile	ug/L	ND	100	06/21/12 23:20	
Methyl methacrylate	ug/L	ND	30.0	06/21/12 23:20	
Methylene Chloride	ug/L	ND	1.0	06/21/12 23:20	
Naphthalene	ug/L	ND	10.0	06/21/12 23:20	
Propionitrile	ug/L	ND	150	06/21/12 23:20	
Styrene	ug/L	ND	1.0	06/21/12 23:20	
Tetrachloroethene	ug/L	ND	1.0	06/21/12 23:20	
Toluene	ug/L	ND	1.0	06/21/12 23:20	
trans-1,2-Dichloroethene	ug/L	ND	5.0	06/21/12 23:20	
trans-1,3-Dichloropropene	ug/L	ND	1.0	06/21/12 23:20	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	06/21/12 23:20	
Trichloroethene	ug/L	ND	1.0	06/21/12 23:20	
Trichlorofluoromethane	ug/L	ND	1.0	06/21/12 23:20	
Vinyl acetate	ug/L	ND	50.0	06/21/12 23:20	
Vinyl chloride	ug/L	ND	1.0	06/21/12 23:20	
Xylene (Total)	ug/L	ND	5.0	06/21/12 23:20	
1,2-Dichloroethane-d4 (S)	%	105	70-130	06/21/12 23:20	
4-Bromofluorobenzene (S)	%	100	70-130	06/21/12 23:20	
Dibromofluoromethane (S)	%	106	70-130	06/21/12 23:20	
Toluene-d8 (S)	%	100	70-130	06/21/12 23:20	

LABORATORY CONTROL SAMPLE: 783021

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	47.3	95	70-130	
1,1,1-Trichloroethane	ug/L	50	40.6	81	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	45.7	91	70-130	
1,1,2-Trichloroethane	ug/L	50	48.6	97	70-130	
1,1-Dichloroethane	ug/L	50	41.0	82	70-130	
1,1-Dichloroethene	ug/L	50	43.0	86	70-132	
1,1-Dichloropropene	ug/L	50	42.5	85	70-130	
1,2,3-Trichloropropane	ug/L	50	47.1	94	70-130	
1,2,4-Trichlorobenzene	ug/L	50	45.1	90	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	48.8	98	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	47.1	94	70-130	

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

LABORATORY CONTROL SAMPLE: 783021

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/L	50	45.5	91	70-130	
1,2-Dichloroethane	ug/L	50	45.1	90	70-130	
1,2-Dichloropropane	ug/L	50	46.3	93	70-130	
1,3-Dichlorobenzene	ug/L	50	45.2	90	70-130	
1,3-Dichloropropane	ug/L	50	46.2	92	70-130	
1,4-Dichlorobenzene	ug/L	50	44.4	89	70-130	
2,2-Dichloropropane	ug/L	50	32.0	64	58-145	
2-Butanone (MEK)	ug/L	100	96.2J	96	70-145	
2-Hexanone	ug/L	100	102	102	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	100	99.3J	99	70-140	
Acetone	ug/L	100	120	120	50-175	
Acetonitrile	ug/L	500	570	114	70-130	
Acrolein	ug/L	250	128	51	70-130	L0
Acrylonitrile	ug/L	250	248	99	70-143	
Allyl chloride	ug/L	50	47.9	96	70-130	
Benzene	ug/L	50	45.6	91	70-130	
Bromochloromethane	ug/L	50	45.9	92	70-130	
Bromodichloromethane	ug/L	50	44.7	89	70-130	
Bromoform	ug/L	50	45.7	91	70-130	
Bromomethane	ug/L	50	33.5	67	54-130	
Carbon disulfide	ug/L	50	48.1J	96	70-131	
Carbon tetrachloride	ug/L	50	45.3	91	70-132	
Chlorobenzene	ug/L	50	45.4	91	70-130	
Chloroethane	ug/L	50	52.5	105	64-134	
Chloroform	ug/L	50	51.8	104	70-130	
Chloromethane	ug/L	50	47.5	95	64-130	
Chloroprene	ug/L	50	55.2	110	70-130	
cis-1,2-Dichloroethene	ug/L	50	43.3	87	70-131	
cis-1,3-Dichloropropene	ug/L	50	42.4	85	70-130	
Dibromochloromethane	ug/L	50	46.0	92	70-130	
Dibromomethane	ug/L	50	45.2	90	70-131	
Dichlorodifluoromethane	ug/L	50	34.7	69	56-130	
Ethyl methacrylate	ug/L	50	52.3	105	70-130	
Ethylbenzene	ug/L	50	45.3	91	70-130	
Hexachloro-1,3-butadiene	ug/L	50	46.0	92	70-130	
Iodomethane	ug/L	100	75.3	75	49-180	
Isobutanol	ug/L	1000	1200	120	70-130	
Methacrylonitrile	ug/L	500	495	99	70-130	
Methyl methacrylate	ug/L	50	50.0	100	70-130	
Methylene Chloride	ug/L	50	49.2	98	63-130	
Naphthalene	ug/L	50	45.8	92	70-138	
Propionitrile	ug/L	500	523	105	70-130	
Styrene	ug/L	50	46.3	93	70-130	
Tetrachloroethene	ug/L	50	44.9	90	70-130	
Toluene	ug/L	50	46.1	92	70-130	
trans-1,2-Dichloroethene	ug/L	50	41.5	83	70-130	
trans-1,3-Dichloropropene	ug/L	50	44.4	89	70-132	
trans-1,4-Dichloro-2-butene	ug/L	50	99.7J	199	70-141	L3

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

LABORATORY CONTROL SAMPLE: 783021

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichloroethene	ug/L	50	46.5	93	70-130	
Trichlorofluoromethane	ug/L	50	46.0	92	62-133	
Vinyl acetate	ug/L	100	88.7	89	66-157	
Vinyl chloride	ug/L	50	40.7	81	69-130	
Xylene (Total)	ug/L	150	135	90	70-130	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			98	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 783022 783023

Parameter	Units	92121375001 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	54.1	57.5	108	115	70-166	6	30	
Benzene	ug/L	1.9	50	50	46.4	56.1	89	108	70-148	19	30	
Chlorobenzene	ug/L	1.2J	50	50	55.4	59.9	108	117	70-146	8	30	
Toluene	ug/L	ND	50	50	55.6	61.6	111	123	70-155	10	30	
Trichloroethene	ug/L	ND	50	50	56.0	67.3	112	135	69-151	18	30	
1,2-Dichloroethane-d4 (S)	%						107	107	70-130			
4-Bromofluorobenzene (S)	%						99	97	70-130			
Dibromofluoromethane (S)	%						106	103	70-130			
Toluene-d8 (S)	%						99	104	70-130			

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

QC Batch: MSV/19537 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 92121375023, 92121375024, 92121375025, 92121375026, 92121375027, 92121375028, 92121375029, 92121375030, 92121375031, 92121375032, 92121375033, 92121375034, 92121375035

METHOD BLANK: 783982 Matrix: Water
Associated Lab Samples: 92121375023, 92121375024, 92121375025, 92121375026, 92121375027, 92121375028, 92121375029, 92121375030, 92121375031, 92121375032, 92121375033, 92121375034, 92121375035

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	06/22/12 23:34	
1,1,1-Trichloroethane	ug/L	ND	1.0	06/22/12 23:34	
1,1,2,2-Tetrachloroethane	ug/L	ND	3.0	06/22/12 23:34	
1,1,2-Trichloroethane	ug/L	ND	1.0	06/22/12 23:34	
1,1-Dichloroethane	ug/L	ND	5.0	06/22/12 23:34	
1,1-Dichloroethene	ug/L	ND	5.0	06/22/12 23:34	
1,1-Dichloropropene	ug/L	ND	5.0	06/22/12 23:34	
1,2,3-Trichloropropane	ug/L	ND	1.0	06/22/12 23:34	
1,2,4-Trichlorobenzene	ug/L	ND	10.0	06/22/12 23:34	
1,2-Dibromo-3-chloropropane	ug/L	ND	13.0	06/22/12 23:34	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	06/22/12 23:34	
1,2-Dichlorobenzene	ug/L	ND	5.0	06/22/12 23:34	
1,2-Dichloroethane	ug/L	ND	1.0	06/22/12 23:34	
1,2-Dichloropropane	ug/L	ND	1.0	06/22/12 23:34	
1,3-Dichlorobenzene	ug/L	ND	5.0	06/22/12 23:34	
1,3-Dichloropropane	ug/L	ND	1.0	06/22/12 23:34	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/22/12 23:34	
2,2-Dichloropropane	ug/L	ND	15.0	06/22/12 23:34	
2-Butanone (MEK)	ug/L	ND	100	06/22/12 23:34	
2-Hexanone	ug/L	ND	50.0	06/22/12 23:34	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	06/22/12 23:34	
Acetone	ug/L	ND	100	06/22/12 23:34	
Acetonitrile	ug/L	ND	55.0	06/22/12 23:34	
Acrolein	ug/L	ND	53.0	06/22/12 23:34	
Acrylonitrile	ug/L	ND	200	06/22/12 23:34	
Allyl chloride	ug/L	ND	10.0	06/22/12 23:34	
Benzene	ug/L	ND	1.0	06/22/12 23:34	
Bromochloromethane	ug/L	ND	3.0	06/22/12 23:34	
Bromodichloromethane	ug/L	ND	1.0	06/22/12 23:34	
Bromoform	ug/L	ND	3.0	06/22/12 23:34	
Bromomethane	ug/L	ND	10.0	06/22/12 23:34	
Carbon disulfide	ug/L	ND	100	06/22/12 23:34	
Carbon tetrachloride	ug/L	ND	1.0	06/22/12 23:34	
Chlorobenzene	ug/L	ND	3.0	06/22/12 23:34	
Chloroethane	ug/L	ND	10.0	06/22/12 23:34	
Chloroform	ug/L	ND	5.0	06/22/12 23:34	
Chloromethane	ug/L	ND	1.0	06/22/12 23:34	
Chloroprene	ug/L	ND	20.0	06/22/12 23:34	
cis-1,2-Dichloroethene	ug/L	ND	5.0	06/22/12 23:34	
cis-1,3-Dichloropropene	ug/L	ND	1.0	06/22/12 23:34	
Dibromochloromethane	ug/L	ND	3.0	06/22/12 23:34	

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

METHOD BLANK: 783982 Matrix: Water

Associated Lab Samples: 92121375023, 92121375024, 92121375025, 92121375026, 92121375027, 92121375028, 92121375029, 92121375030, 92121375031, 92121375032, 92121375033, 92121375034, 92121375035

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	10.0	06/22/12 23:34	
Dichlorodifluoromethane	ug/L	ND	5.0	06/22/12 23:34	
Ethyl methacrylate	ug/L	ND	10.0	06/22/12 23:34	
Ethylbenzene	ug/L	ND	1.0	06/22/12 23:34	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	06/22/12 23:34	
Iodomethane	ug/L	ND	10.0	06/22/12 23:34	
Isobutanol	ug/L	ND	100	06/22/12 23:34	
Methacrylonitrile	ug/L	ND	100	06/22/12 23:34	
Methyl methacrylate	ug/L	ND	30.0	06/22/12 23:34	
Methylene Chloride	ug/L	ND	1.0	06/22/12 23:34	
Naphthalene	ug/L	ND	10.0	06/22/12 23:34	
Propionitrile	ug/L	ND	150	06/22/12 23:34	
Styrene	ug/L	ND	1.0	06/22/12 23:34	
Tetrachloroethene	ug/L	ND	1.0	06/22/12 23:34	
Toluene	ug/L	ND	1.0	06/22/12 23:34	
trans-1,2-Dichloroethene	ug/L	ND	5.0	06/22/12 23:34	
trans-1,3-Dichloropropene	ug/L	ND	1.0	06/22/12 23:34	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	06/22/12 23:34	
Trichloroethene	ug/L	ND	1.0	06/22/12 23:34	
Trichlorofluoromethane	ug/L	ND	1.0	06/22/12 23:34	
Vinyl acetate	ug/L	ND	50.0	06/22/12 23:34	
Vinyl chloride	ug/L	ND	1.0	06/22/12 23:34	
Xylene (Total)	ug/L	ND	5.0	06/22/12 23:34	
1,2-Dichloroethane-d4 (S)	%	116	70-130	06/22/12 23:34	
4-Bromofluorobenzene (S)	%	100	70-130	06/22/12 23:34	
Dibromofluoromethane (S)	%	108	70-130	06/22/12 23:34	
Toluene-d8 (S)	%	96	70-130	06/22/12 23:34	

LABORATORY CONTROL SAMPLE: 783983

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	46.4	93	70-130	
1,1,1-Trichloroethane	ug/L	50	47.3	95	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	45.6	91	70-130	
1,1,2-Trichloroethane	ug/L	50	52.3	105	70-130	
1,1-Dichloroethane	ug/L	50	47.2	94	70-130	
1,1-Dichloroethene	ug/L	50	49.4	99	70-132	
1,1-Dichloropropene	ug/L	50	48.2	96	70-130	
1,2,3-Trichloropropane	ug/L	50	47.7	95	70-130	
1,2,4-Trichlorobenzene	ug/L	50	48.9	98	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	53.5	107	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	47.6	95	70-130	
1,2-Dichlorobenzene	ug/L	50	48.1	96	70-130	
1,2-Dichloroethane	ug/L	50	48.0	96	70-130	

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

LABORATORY CONTROL SAMPLE: 783983

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloropropane	ug/L	50	47.0	94	70-130	
1,3-Dichlorobenzene	ug/L	50	47.8	96	70-130	
1,3-Dichloropropane	ug/L	50	45.7	91	70-130	
1,4-Dichlorobenzene	ug/L	50	47.4	95	70-130	
2,2-Dichloropropane	ug/L	50	35.9	72	58-145	
2-Butanone (MEK)	ug/L	100	108	108	70-145	
2-Hexanone	ug/L	100	102	102	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	100	104	104	70-140	
Acetone	ug/L	100	130	130	50-175	
Acetonitrile	ug/L	500	636	127	70-130	
Acrolein	ug/L	250	228	91	70-130	
Acrylonitrile	ug/L	250	257	103	70-143	
Allyl chloride	ug/L	50	54.2	108	70-130	
Benzene	ug/L	50	45.4	91	70-130	
Bromochloromethane	ug/L	50	50.5	101	70-130	
Bromodichloromethane	ug/L	50	48.0	96	70-130	
Bromoform	ug/L	50	48.6	97	70-130	
Bromomethane	ug/L	50	43.0	86	54-130	
Carbon disulfide	ug/L	50	49.8J	100	70-131	
Carbon tetrachloride	ug/L	50	50.9	102	70-132	
Chlorobenzene	ug/L	50	46.0	92	70-130	
Chloroethane	ug/L	50	60.0	120	64-134	
Chloroform	ug/L	50	55.7	111	70-130	
Chloromethane	ug/L	50	55.6	111	64-130	
Chloroprene	ug/L	50	65.4	131	70-130	L3
cis-1,2-Dichloroethene	ug/L	50	50.3	101	70-131	
cis-1,3-Dichloropropene	ug/L	50	45.3	91	70-130	
Dibromochloromethane	ug/L	50	48.1	96	70-130	
Dibromomethane	ug/L	50	47.2	94	70-131	
Dichlorodifluoromethane	ug/L	50	42.7	85	56-130	
Ethyl methacrylate	ug/L	50	53.5	107	70-130	
Ethylbenzene	ug/L	50	46.0	92	70-130	
Hexachloro-1,3-butadiene	ug/L	50	49.3	99	70-130	
Iodomethane	ug/L	100	99.6	100	49-180	
Isobutanol	ug/L	1000	1260	126	70-130	
Methacrylonitrile	ug/L	500	550	110	70-130	
Methyl methacrylate	ug/L	50	51.3	103	70-130	
Methylene Chloride	ug/L	50	57.5	115	63-130	
Naphthalene	ug/L	50	50.2	100	70-138	
Propionitrile	ug/L	500	558	112	70-130	
Styrene	ug/L	50	47.2	94	70-130	
Tetrachloroethene	ug/L	50	46.1	92	70-130	
Toluene	ug/L	50	48.8	98	70-130	
trans-1,2-Dichloroethene	ug/L	50	49.9	100	70-130	
trans-1,3-Dichloropropene	ug/L	50	46.9	94	70-132	
trans-1,4-Dichloro-2-butene	ug/L	50	58.6J	117	70-141	
Trichloroethene	ug/L	50	48.7	97	70-130	
Trichlorofluoromethane	ug/L	50	53.4	107	62-133	

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

LABORATORY CONTROL SAMPLE: 783983

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl acetate	ug/L	100	101	101	66-157	
Vinyl chloride	ug/L	50	47.2	94	69-130	
Xylene (Total)	ug/L	150	137	91	70-130	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			97	70-130	
Dibromofluoromethane (S)	%			105	70-130	
Toluene-d8 (S)	%			97	70-130	

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

QC Batch: WET/21290 — Analysis Method: SM 2320B
QC Batch Method: SM 2320B — Analysis Description: 2320B Alkalinity
Associated Lab Samples: 92121375002, 92121375003, 92121375004, 92121375005, 92121375009, 92121375010, 92121375011, 92121375012, 92121375013, 92121375022

METHOD BLANK: 781198 — Matrix: Water
Associated Lab Samples: 92121375002, 92121375003, 92121375004, 92121375005, 92121375009, 92121375010, 92121375011, 92121375012, 92121375013, 92121375022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	ug/L	ND	1000	06/19/12 14:12	

LABORATORY CONTROL SAMPLE: 781199

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	ug/L	50000	54000	108	90-110	

MATRIX SPIKE SAMPLE: 781201

Parameter	Units	92121375002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	ug/L	154000	50000	179000	50		

MATRIX SPIKE SAMPLE: 781224

Parameter	Units	92121392014 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	ug/L	149000	50000	182000	67		

SAMPLE DUPLICATE: 781200

Parameter	Units	92121375002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	ug/L	154000	155000	0	20	

SAMPLE DUPLICATE: 781223

Parameter	Units	92121392014 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	ug/L	149000	149000	0	20	

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

QC Batch: WET/21270 — Analysis Method: SM 4500-S2D
QC Batch Method: SM 4500-S2D — Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 92121375002, 92121375003, 92121375004, 92121375005, 92121375009, 92121375010, 92121375011, 92121375012, 92121375013, 92121375015, 92121375022

METHOD BLANK: 780469 — Matrix: Water
Associated Lab Samples: 92121375002, 92121375003, 92121375004, 92121375005, 92121375009, 92121375010, 92121375011, 92121375012, 92121375013, 92121375015, 92121375022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	ug/L	ND	1000	06/16/12 14:00	

LABORATORY CONTROL SAMPLE: 780470

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	ug/L	500	489J	98	90-110	

MATRIX SPIKE SAMPLE: 780471

Parameter	Units	92121308007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	ug/L	ND	500	277J	51	75-125	M1

SAMPLE DUPLICATE: 780472

Parameter	Units	92121308007 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.: 92121375

QC Batch: WET/21291
QC Batch Method: SM 4500-S2D
Analysis Method: SM 4500-S2D
Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 92121375032

METHOD BLANK: 781204
Matrix: Water
Associated Lab Samples: 92121375032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	ug/L	ND	1000	06/19/12 15:35	

LABORATORY CONTROL SAMPLE: 781205

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	ug/L	500	549J	110	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 781206 781207

Parameter	Units	92121392014 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	435J	435J	87	87	75-125	0	20	

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

QC Batch: WET/21322
QC Batch Method: SM 4500-S2D
Analysis Method: SM 4500-S2D
Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 92121375026

METHOD BLANK: 782793
Matrix: Water
Associated Lab Samples: 92121375026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	ug/L	ND	1000	06/22/12 11:20	

LABORATORY CONTROL SAMPLE: 782794

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	ug/L	500	522J	104	90-110	

MATRIX SPIKE SAMPLE: 782795

Parameter	Units	92121375026 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	ug/L	ND	500	380J	76	75-125	

SAMPLE DUPLICATE: 782796

Parameter	Units	92121375026 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.: 92121375

QC Batch: WET/21243 — Analysis Method: SM 5210B
QC Batch Method: SM 5210B — Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 92121375009, 92121375010

METHOD BLANK: 779529 — Matrix: Water
Associated Lab Samples: 92121375009, 92121375010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	ug/L	ND	2000	06/19/12 22:30	

LABORATORY CONTROL SAMPLE: 779530

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	ug/L	198000	173000	87	84.5-115.4	

SAMPLE DUPLICATE: 779531

Parameter	Units	92121374005 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

QC Batch: WETA/12388 — Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 — Analysis Description: 300.0 IC Anions
Associated Lab Samples: 92121375002, 92121375003, 92121375004, 92121375005, 92121375009, 92121375010

METHOD BLANK: 781128 — Matrix: Water
Associated Lab Samples: 92121375002, 92121375003, 92121375004, 92121375005, 92121375009, 92121375010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	ug/L	ND	250000	06/25/12 04:49	

LABORATORY CONTROL SAMPLE: 781129

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	20000	19200J	96	90-110	

MATRIX SPIKE SAMPLE: 781130

Parameter	Units	92121231013 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	31.1 mg/L	20000	52800J	108	90-110	

MATRIX SPIKE SAMPLE: 781132

Parameter	Units	92121335011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	6.5 mg/L	20000	26800J	101	90-110	

SAMPLE DUPLICATE: 781131

Parameter	Units	92121231013 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfate	ug/L	31.1 mg/L	31300J	0	20	

SAMPLE DUPLICATE: 781133

Parameter	Units	92121335011 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfate	ug/L	6.5 mg/L	4760J	31	20	D6

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

QC Batch: WETA/12489 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 92121375011, 92121375012, 92121375013, 92121375022

METHOD BLANK: 787060 Matrix: Water
Associated Lab Samples: 92121375011, 92121375012, 92121375013, 92121375022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	ug/L	ND	250000	06/30/12 10:54	

LABORATORY CONTROL SAMPLE: 787061

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	20000	19000J	95	90-110	

MATRIX SPIKE SAMPLE: 787062

Parameter	Units	92121392009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	24500	20000	ND	-122	90-110	M1

MATRIX SPIKE SAMPLE: 787456

Parameter	Units	92121392014 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	3040	20000	22300J	96	90-110	

SAMPLE DUPLICATE: 787063

Parameter	Units	92121392009 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfate	ug/L	24500	24600J	1	20	

SAMPLE DUPLICATE: 787457

Parameter	Units	92121392014 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfate	ug/L	3040	3060J	0	20	

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

QC Batch: WETA/12348 — Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 — Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 92121375002, 92121375004, 92121375005, 92121375009, 92121375010

METHOD BLANK: 779517 — Matrix: Water
Associated Lab Samples: 92121375002, 92121375004, 92121375005, 92121375009, 92121375010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	ug/L	ND	10000	06/15/12 01:45	

LABORATORY CONTROL SAMPLE: 779518

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	ug/L	2500	2360J	94	90-110	

MATRIX SPIKE SAMPLE: 779519

Parameter	Units	92121375005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	ug/L	781J	2500	3010J	89	90-110	M1

MATRIX SPIKE SAMPLE: 779521

Parameter	Units	92121374005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	ug/L	494J	2500	2650J	86	90-110	M1

SAMPLE DUPLICATE: 779520

Parameter	Units	92121375005 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	ug/L	781J	769J	2	20	

SAMPLE DUPLICATE: 779522

Parameter	Units	92121374005 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	ug/L	494J	498J	1	20	

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

QC Batch: WETA/12349
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 92121375003

METHOD BLANK: 779523
Matrix: Water
Associated Lab Samples: 92121375003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	ug/L	ND	10000	06/15/12 02:25	

LABORATORY CONTROL SAMPLE: 779524

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	ug/L	2500	2370J	95	90-110	

MATRIX SPIKE SAMPLE: 779525

Parameter	Units	92121394008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	ug/L	ND	2500	2270J	91	90-110	

MATRIX SPIKE SAMPLE: 779527

Parameter	Units	92121392005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	ug/L	251	2500	2530J	91	90-110	

SAMPLE DUPLICATE: 779526

Parameter	Units	92121394008 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	ug/L	ND	ND		20	

SAMPLE DUPLICATE: 779528

Parameter	Units	92121392005 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	ug/L	251	278J	10	20	

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

QC Batch: WETA/12362 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 92121375011, 92121375012, 92121375013, 92121375022

METHOD BLANK: 780306 Matrix: Water
Associated Lab Samples: 92121375011, 92121375012, 92121375013, 92121375022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	ug/L	ND	10000	06/15/12 21:52	

LABORATORY CONTROL SAMPLE: 780307

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	ug/L	2500	2590J	103	90-110	

MATRIX SPIKE SAMPLE: 780308

Parameter	Units	92121392007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	ug/L	ND	2500	2570J	103	90-110	

MATRIX SPIKE SAMPLE: 780310

Parameter	Units	92121392009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	ug/L	79.8	2500	2680J	104	90-110	

SAMPLE DUPLICATE: 780309

Parameter	Units	92121392007 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	ug/L	ND	ND		20	

SAMPLE DUPLICATE: 780311

Parameter	Units	92121392009 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	ug/L	79.8	80.9J	1	20	

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

QC Batch: WETA/12457 Analysis Method: SM 4500-Cl-E
QC Batch Method: SM 4500-Cl-E Analysis Description: 4500 Chloride
Associated Lab Samples: 92121375002, 92121375003, 92121375004, 92121375005, 92121375009, 92121375010

METHOD BLANK: 785055 Matrix: Water
Associated Lab Samples: 92121375002, 92121375003, 92121375004, 92121375005, 92121375009, 92121375010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	ug/L	ND	1000	06/26/12 12:56	

LABORATORY CONTROL SAMPLE: 785056

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	ug/L	20000	21400	107	90-110	

MATRIX SPIKE SAMPLE: 785057

Parameter	Units	92121375002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	ug/L	3390	20000	25300	110	75-125	

SAMPLE DUPLICATE: 785058

Parameter	Units	92121375003 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	ug/L	66300	64500	3	20	

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

QC Batch: WETA/12458 | Analysis Method: SM 4500-Cl-E
QC Batch Method: SM 4500-Cl-E | Analysis Description: 4500 Chloride
Associated Lab Samples: 92121375011, 92121375012

METHOD BLANK: 785061 | Matrix: Water
Associated Lab Samples: 92121375011, 92121375012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	ug/L	ND	1000	06/26/12 13:15	

LABORATORY CONTROL SAMPLE: 785062

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	ug/L	20000	20800	104	90-110	

MATRIX SPIKE SAMPLE: 785063

Parameter	Units	92122028001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	ug/L	3.7 mg/L	20000	25900	111	75-125	

SAMPLE DUPLICATE: 785064

Parameter	Units	92122028002 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	ug/L	3.1 mg/L	3160	3	20	

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

QC Batch: WETA/12470
Analysis Method: SM 4500-Cl-E
QC Batch Method: SM 4500-Cl-E
Analysis Description: 4500 Chloride
Associated Lab Samples: 92121375013, 92121375022

METHOD BLANK: 785397
Matrix: Water
Associated Lab Samples: 92121375013, 92121375022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	ug/L	ND	1000	06/26/12 14:48	

LABORATORY CONTROL SAMPLE: 785398

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	ug/L	20000	21900	110	90-110	

MATRIX SPIKE SAMPLE: 785400

Parameter	Units	92121392014 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	ug/L	109000	20000	126000	87	75-125	

SAMPLE DUPLICATE: 785399

Parameter	Units	92121392014 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	ug/L	109000	108000	1	20	

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

QC Batch: WETA/12450 — Analysis Method: SM 5220D
QC Batch Method: SM 5220D — Analysis Description: 5220D COD
Associated Lab Samples: 92121375002, 92121375003

METHOD BLANK: 784570 — Matrix: Water
Associated Lab Samples: 92121375002, 92121375003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	ug/L	ND	25000	06/25/12 11:10	

LABORATORY CONTROL SAMPLE: 784571

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	ug/L	750000	799000	107	90-110	

MATRIX SPIKE SAMPLE: 784578

Parameter	Units	92121772003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	ug/L	4460 mg/L	3000000	7320000	95	75-125	

MATRIX SPIKE SAMPLE: 784580

Parameter	Units	92121772005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	ug/L	16600 mg/L	30000000	49600000	110	75-125	

SAMPLE DUPLICATE: 784579

Parameter	Units	92121772004 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	ug/L	1530 mg/L	1460000	5	20	

SAMPLE DUPLICATE: 784642

Parameter	Units	92121128001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	ug/L	763 mg/L	814000	6	20	

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

QC Batch: WETA/12460 Analysis Method: SM 5220D
QC Batch Method: SM 5220D Analysis Description: 5220D COD
Associated Lab Samples: 92121375004, 92121375005, 92121375009, 92121375010

METHOD BLANK: 785085 Matrix: Water
Associated Lab Samples: 92121375004, 92121375005, 92121375009, 92121375010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	ug/L	ND	25000	06/26/12 10:20	

LABORATORY CONTROL SAMPLE: 785086

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	ug/L	750000	727000	97	90-110	

MATRIX SPIKE SAMPLE: 785121

Parameter	Units	92121375005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	ug/L	ND	750000	777000	103	75-125	

MATRIX SPIKE SAMPLE: 785147

Parameter	Units	92121375010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	ug/L	ND	750000	774000	102	75-125	

SAMPLE DUPLICATE: 785120

Parameter	Units	92121375004 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	ug/L	ND	ND		20	

SAMPLE DUPLICATE: 785146

Parameter	Units	92121375009 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.: 92121375

QC Batch: WETA/12479 Analysis Method: SM 5220D
QC Batch Method: SM 5220D Analysis Description: 5220D COD
Associated Lab Samples: 92121375011, 92121375012, 92121375013, 92121375022

METHOD BLANK: 785765 Matrix: Water
Associated Lab Samples: 92121375011, 92121375012, 92121375013, 92121375022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	ug/L	ND	25000	06/27/12 10:40	

LABORATORY CONTROL SAMPLE: 785766

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	ug/L	750000	790000	105	90-110	

MATRIX SPIKE SAMPLE: 785772

Parameter	Units	92121375011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	ug/L	31000	750000	805000	103	75-125	

MATRIX SPIKE SAMPLE: 785774

Parameter	Units	92121375013 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	ug/L	33000	750000	885000	114	75-125	

SAMPLE DUPLICATE: 785771

Parameter	Units	92121473001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	ug/L	730 mg/L	723000	1	20	

SAMPLE DUPLICATE: 785773

Parameter	Units	92121375012 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.: 92121375

QC Batch: WETA/12389
QC Batch Method: SM 5310B
Analysis Method: SM 5310B
Analysis Description: 5310B TOC
Associated Lab Samples: 92121375002

METHOD BLANK: 781138
Matrix: Water
Associated Lab Samples: 92121375002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	ug/L	ND	1000	06/20/12 15:03	

LABORATORY CONTROL SAMPLE: 781139

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	ug/L	25000	24000	96	90-110	

MATRIX SPIKE SAMPLE: 781140

Parameter	Units	92121231001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	ug/L	4.1 mg/L	25000	26600	90	75-125	

MATRIX SPIKE SAMPLE: 781142

Parameter	Units	92121231006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	ug/L	1.6 mg/L	25000	23600	88	75-125	

SAMPLE DUPLICATE: 781141

Parameter	Units	92121231001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	ug/L	4.1 mg/L	1440	97	20	D6

SAMPLE DUPLICATE: 781143

Parameter	Units	92121231007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	ug/L	3.8 mg/L	3780	0	20	

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QUALITY CONTROL DATA

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

QC Batch: WETA/12449 — Analysis Method: SM 5310B
QC Batch Method: SM 5310B — Analysis Description: 5310B TOC
Associated Lab Samples: 92121375003, 92121375004, 92121375005, 92121375009, 92121375010, 92121375011, 92121375012, 92121375013, 92121375022

METHOD BLANK: 784547 — Matrix: Water
Associated Lab Samples: 92121375003, 92121375004, 92121375005, 92121375009, 92121375010, 92121375011, 92121375012, 92121375013, 92121375022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	ug/L	ND	1000	06/25/12 16:49	

LABORATORY CONTROL SAMPLE: 784548

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	ug/L	25000	23700	95	90-110	

MATRIX SPIKE SAMPLE: 784549

Parameter	Units	92121637001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	ug/L	7.3 mg/L	25000	30200	92	75-125	

MATRIX SPIKE SAMPLE: 784551

Parameter	Units	92121539001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	ug/L	1190 mg/L	25000	1190000	-12	75-125	M6

SAMPLE DUPLICATE: 784550

Parameter	Units	92121637002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	ug/L	3.0 mg/L	3000	1	20	

SAMPLE DUPLICATE: 784552

Parameter	Units	92121539002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	ug/L	1170 mg/L	1150000	2	20	

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QUALIFIERS

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

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

TNI - The NELAC Institute.

LABORATORIES

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

ANALYTE QUALIFIERS

D6	The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92121375001	**MW-4R**	EPA 3010	MPRP/10834	EPA 6010	ICP/9950
92121375002	**MW-5**	EPA 3010	MPRP/10834	EPA 6010	ICP/9950
92121375003	**MW-12D**	EPA 3010	MPRP/10834	EPA 6010	ICP/9950
92121375004	**MW-24**	EPA 3010	MPRP/10834	EPA 6010	ICP/9950
92121375005	**MW-25**	EPA 3010	MPRP/10834	EPA 6010	ICP/9950
92121375006	**MW-32**	EPA 3010	MPRP/10834	EPA 6010	ICP/9950
92121375007	**MW-33**	EPA 3010	MPRP/10834	EPA 6010	ICP/9950
92121375008	**MW-34**	EPA 3010	MPRP/10841	EPA 6010	ICP/9975
92121375011	**MW-6**	EPA 3010	MPRP/10841	EPA 6010	ICP/9975
92121375012	**MW-12**	EPA 3010	MPRP/10841	EPA 6010	ICP/9975
92121375013	**MW-16**	EPA 3010	MPRP/10841	EPA 6010	ICP/9975
92121375014	**MW-9**	EPA 3010	MPRP/10842	EPA 6010	ICP/9974
92121375015	**MW-10**	EPA 3010	MPRP/10842	EPA 6010	ICP/9974
92121375016	**MW-13**	EPA 3010	MPRP/10842	EPA 6010	ICP/9974
92121375017	**MW-15**	EPA 3010	MPRP/10842	EPA 6010	ICP/9974
92121375018	**MW-19**	EPA 3010	MPRP/10842	EPA 6010	ICP/9974
92121375019	**MW-20**	EPA 3010	MPRP/10842	EPA 6010	ICP/9974
92121375020	**MW-21**	EPA 3010	MPRP/10842	EPA 6010	ICP/9974
92121375021	**MW-22**	EPA 3010	MPRP/10842	EPA 6010	ICP/9974
92121375022	**MW-18**	EPA 3010	MPRP/10842	EPA 6010	ICP/9974
92121375023	**MW-1**	EPA 3010	MPRP/10841	EPA 6010	ICP/9975
92121375024	**MW-1B**	EPA 3010	MPRP/10841	EPA 6010	ICP/9975
92121375025	**MW-2**	EPA 3010	MPRP/10841	EPA 6010	ICP/9975
92121375026	**MW-14**	EPA 3010	MPRP/10841	EPA 6010	ICP/9975
92121375027	**MW-17**	EPA 3010	MPRP/10841	EPA 6010	ICP/9975
92121375028	**SW-3**	EPA 3010	MPRP/10841	EPA 6010	ICP/9975
92121375029	**SW-4R**	EPA 3010	MPRP/10841	EPA 6010	ICP/9975
92121375030	**SW-5**	EPA 3010	MPRP/10841	EPA 6010	ICP/9975
92121375031	**SW-6**	EPA 3010	MPRP/10841	EPA 6010	ICP/9975
92121375032	**EB**	EPA 3010	MPRP/10841	EPA 6010	ICP/9975
92121375033	**FB**	EPA 3010	MPRP/10841	EPA 6010	ICP/9975
92121375035	**MW-23**	EPA 3010	MPRP/10841	EPA 6010	ICP/9975
92121375001	**MW-4R**	EPA 8260	MSV/19520		
92121375002	**MW-5**	EPA 8260	MSV/19520		
92121375003	**MW-12D**	EPA 8260	MSV/19520		
92121375004	**MW-24**	EPA 8260	MSV/19520		
92121375005	**MW-25**	EPA 8260	MSV/19520		
92121375006	**MW-32**	EPA 8260	MSV/19520		
92121375007	**MW-33**	EPA 8260	MSV/19520		
92121375008	**MW-34**	EPA 8260	MSV/19520		
92121375011	**MW-6**	EPA 8260	MSV/19520		
92121375012	**MW-12**	EPA 8260	MSV/19520		
92121375013	**MW-16**	EPA 8260	MSV/19520		
92121375014	**MW-9**	EPA 8260	MSV/19520		
92121375015	**MW-10**	EPA 8260	MSV/19520		
92121375016	**MW-13**	EPA 8260	MSV/19520		
92121375017	**MW-15**	EPA 8260	MSV/19520		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92121375018	**MW-19**	EPA 8260	MSV/19520		
92121375019	**MW-20**	EPA 8260	MSV/19520		
92121375020	**MW-21**	EPA 8260	MSV/19520		
92121375021	**MW-22**	EPA 8260	MSV/19520		
92121375022	**MW-18**	EPA 8260	MSV/19520		
92121375023	**MW-1**	EPA 8260	MSV/19537		
92121375024	**MW-1B**	EPA 8260	MSV/19537		
92121375025	**MW-2**	EPA 8260	MSV/19537		
92121375026	**MW-14**	EPA 8260	MSV/19537		
92121375027	**MW-17**	EPA 8260	MSV/19537		
92121375028	**SW-3**	EPA 8260	MSV/19537		
92121375029	**SW-4R**	EPA 8260	MSV/19537		
92121375030	**SW-5**	EPA 8260	MSV/19537		
92121375031	**SW-6**	EPA 8260	MSV/19537		
92121375032	**EB**	EPA 8260	MSV/19537		
92121375033	**FB**	EPA 8260	MSV/19537		
92121375034	**TB**	EPA 8260	MSV/19537		
92121375035	**MW-23**	EPA 8260	MSV/19537		
92121375002	**MW-5**	SM 2320B	WET/21290		
92121375003	**MW-12D**	SM 2320B	WET/21290		
92121375004	**MW-24**	SM 2320B	WET/21290		
92121375005	**MW-25**	SM 2320B	WET/21290		
92121375009	**MW-33**	SM 2320B	WET/21290		
92121375010	**MW-34**	SM 2320B	WET/21290		
92121375011	**MW-6**	SM 2320B	WET/21290		
92121375012	**MW-12**	SM 2320B	WET/21290		
92121375013	**MW-16**	SM 2320B	WET/21290		
92121375022	**MW-18**	SM 2320B	WET/21290		
92121375002	**MW-5**	SM 4500-S2D	WET/21270		
92121375003	**MW-12D**	SM 4500-S2D	WET/21270		
92121375004	**MW-24**	SM 4500-S2D	WET/21270		
92121375005	**MW-25**	SM 4500-S2D	WET/21270		
92121375009	**MW-33**	SM 4500-S2D	WET/21270		
92121375010	**MW-34**	SM 4500-S2D	WET/21270		
92121375011	**MW-6**	SM 4500-S2D	WET/21270		
92121375012	**MW-12**	SM 4500-S2D	WET/21270		
92121375013	**MW-16**	SM 4500-S2D	WET/21270		
92121375015	**MW-10**	SM 4500-S2D	WET/21270		
92121375022	**MW-18**	SM 4500-S2D	WET/21270		
92121375026	**MW-14**	SM 4500-S2D	WET/21322		
92121375032	**EB**	SM 4500-S2D	WET/21291		
92121375009	**MW-33**	SM 5210B	WET/21243	SM 5210B	WET/21244
92121375010	**MW-34**	SM 5210B	WET/21243	SM 5210B	WET/21244
92121375002	**MW-5**	EPA 300.0	WETA/12388		
92121375003	**MW-12D**	EPA 300.0	WETA/12388		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92121375004	**MW-24**	EPA 300.0	WETA/12388		
92121375005	**MW-25**	EPA 300.0	WETA/12388		
92121375009	**MW-33**	EPA 300.0	WETA/12388		
92121375010	**MW-34**	EPA 300.0	WETA/12388		
92121375011	**MW-6**	EPA 300.0	WETA/12489		
92121375012	**MW-12**	EPA 300.0	WETA/12489		
92121375013	**MW-16**	EPA 300.0	WETA/12489		
92121375022	**MW-18**	EPA 300.0	WETA/12489		
92121375002	**MW-5**	EPA 353.2	WETA/12348		
92121375003	**MW-12D**	EPA 353.2	WETA/12349		
92121375004	**MW-24**	EPA 353.2	WETA/12348		
92121375005	**MW-25**	EPA 353.2	WETA/12348		
92121375009	**MW-33**	EPA 353.2	WETA/12348		
92121375010	**MW-34**	EPA 353.2	WETA/12348		
92121375011	**MW-6**	EPA 353.2	WETA/12362		
92121375012	**MW-12**	EPA 353.2	WETA/12362		
92121375013	**MW-16**	EPA 353.2	WETA/12362		
92121375022	**MW-18**	EPA 353.2	WETA/12362		
92121375002	**MW-5**	SM 4500-Cl-E	WETA/12457		
92121375003	**MW-12D**	SM 4500-Cl-E	WETA/12457		
92121375004	**MW-24**	SM 4500-Cl-E	WETA/12457		
92121375005	**MW-25**	SM 4500-Cl-E	WETA/12457		
92121375009	**MW-33**	SM 4500-Cl-E	WETA/12457		
92121375010	**MW-34**	SM 4500-Cl-E	WETA/12457		
92121375011	**MW-6**	SM 4500-Cl-E	WETA/12458		
92121375012	**MW-12**	SM 4500-Cl-E	WETA/12458		
92121375013	**MW-16**	SM 4500-Cl-E	WETA/12470		
92121375022	**MW-18**	SM 4500-Cl-E	WETA/12470		
92121375002	**MW-5**	SM 5220D	WETA/12450		
92121375003	**MW-12D**	SM 5220D	WETA/12450		
92121375004	**MW-24**	SM 5220D	WETA/12460		
92121375005	**MW-25**	SM 5220D	WETA/12460		
92121375009	**MW-33**	SM 5220D	WETA/12460		
92121375010	**MW-34**	SM 5220D	WETA/12460		
92121375011	**MW-6**	SM 5220D	WETA/12479		
92121375012	**MW-12**	SM 5220D	WETA/12479		
92121375013	**MW-16**	SM 5220D	WETA/12479		
92121375022	**MW-18**	SM 5220D	WETA/12479		
92121375002	**MW-5**	SM 5310B	WETA/12389		
92121375003	**MW-12D**	SM 5310B	WETA/12449		
92121375004	**MW-24**	SM 5310B	WETA/12449		
92121375005	**MW-25**	SM 5310B	WETA/12449		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ALEXANDER LF-SWS
Pace Project No.: 92121375

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92121375009	**MW-33**	SM 5310B	WETA/12449		
92121375010	**MW-34**	SM 5310B	WETA/12449		
92121375011	**MW-6**	SM 5310B	WETA/12449		
92121375012	**MW-12**	SM 5310B	WETA/12449		
92121375013	**MW-16**	SM 5310B	WETA/12449		
92121375022	**MW-18**	SM 5310B	WETA/12449		

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

July 9, 2012

Kevin Godwin
Pace Analytical Services, Inc.
9800 Kincey Avenue
Suite 100
Huntersville, NC 28078

RE: **ALEXANDER LF-SWS**

Microseeps Workorder: 5598

Dear Kevin Godwin:

Enclosed are the analytical results for sample(s) received by the laboratory on Friday, June 15, 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 07/09/2012
rrobl@microseeps.com

Enclosures

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

Total Number of Pages 18

CERTIFICATE OF ANALYSIS

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Fax: (412) 826-3433

LABORATORY ACCREDITATIONS & CERTIFICATIONS

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

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SAMPLE SUMMARY

Workorder: 5598 ALEXANDER LF-SWS

Lab ID	Sample ID	Matrix	Date Collected	Date Received
55980001	MW-33	Bubble Strip	6/13/2012 11:10	6/15/2012 14:00
55980002	MW-33	Water	6/13/2012 11:10	6/15/2012 14:00
55980003	MW-34	Bubble Strip	6/13/2012 10:05	6/15/2012 14:00
55980004	MW-34	Water	6/13/2012 10:05	6/15/2012 14:00

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PROJECT SUMMARY

Workorder: 5598 ALEXANDER LF-SWS

Workorder Comments

Samples 5598 (0002, 0004) were analyzed outside the hold time of 14 days from collection for the low level volatile fatty acids.

Samples 5598 (0001, 0003) were analyzed outside the hold time of 14 days from collection for the light hydrocarbons and hydrogen. The delay was caused by an instrument malfunction which pushed the analysis outside the holding time period.

Because the bubble samples were collected using Microseeps procedure SM9; aqueous headspace equilibration technique, any affect to the vapor phase component concentrations due to the delay of the analysis is expected to be minimal.

Sample Comments

Lab ID: 55980001 **Sample ID:** MW-33 **Sample Type:** N

Sample headspace vial not sufficiently pressurized for analysis. Vial pressurized with an equal volume of UHP Nitrogen and analyzed. Results reported at a dilution.

Batch Comments

Batch: EDON/1432 - Low Level Volatile Fatty Acids

The samples were originally analyzed on 06/20/2012, however due to QA/QC issue associated to those analyses, the resulting re-analysis was outside the established holding time period. Ultimately, concentrations between the two runs were similar.

Batch: DISG/2253 - AM20GAX Bubble Strip QC

Due to a reporting anomoly, the laboratory control sample and duplicate recovery for Methane cannot be displayed within the body of the report. The values submitted with the batch were 87% and 90% recoveries, with 3.6% relative percent difference.

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3004.1.0.0

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

ANALYTICAL RESULTS

Workorder: 5598 ALEXANDER LF-SWS

Lab ID: **55980001** Date Received: 6/15/2012 14:00 Matrix: Bubble Strip

Sample ID: **MW-33** Date Collected: 6/13/2012 11:10

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	**7.0**	ug/l	0.030	0.0060	2			7/2/2012 16:03	GT	
Ethane	**0.0030J**	ug/l	0.020	0.0020	2			7/2/2012 16:03	GT	
Ethene	**0.017J**	ug/l	0.020	0.0040	2			7/2/2012 16:03	GT	
Hydrogen	**5.4**	nM	1.2	0.50	2			7/2/2012 16:03	GT	

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

ANALYTICAL RESULTS

Workorder: 5598 ALEXANDER LF-SWS

Lab ID: **55980002** Date Received: 6/15/2012 14:00 Matrix: Water
Sample ID: **MW-33** Date Collected: 6/13/2012 11:10

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
EDonors - MICR										
Analysis Desc: AM23G		Analytical Method: AM23G								
Lactic Acid	**0.20**	mg/l	0.10	0.010	1			6/30/2012 22:21	KB	
Acetic Acid	**0.050J**	mg/l	0.070	0.0060	1			6/30/2012 22:21	KB	
Propionic Acid	**0.025J**	mg/l	0.050	0.0070	1			6/30/2012 22:21	KB	
Butyric Acid	**0.050 U**	mg/l	0.050	0.0040	1			6/30/2012 22:21	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.033	1			6/30/2012 22:21	KB	

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

ANALYTICAL RESULTS

Workorder: 5598 ALEXANDER LF-SWS

Lab ID: **55980003** Date Received: 6/15/2012 14:00 Matrix: Bubble Strip

Sample ID: **MW-34** Date Collected: 6/13/2012 10:05

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM20GAX		Analytical Method: AM20GAX								
Methane	**0.049**	ug/l	0.015	0.0030	1			7/2/2012 16:20	GT	
Ethane	**0.0014J**	ug/l	0.010	0.0010	1			7/2/2012 16:20	GT	
Ethene	**0.0067J**	ug/l	0.010	0.0020	1			7/2/2012 16:20	GT	
Hydrogen	**2.0**	nM	0.60	0.25	1			7/2/2012 16:20	GT	

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

ANALYTICAL RESULTS

Workorder: 5598 ALEXANDER LF-SWS

Lab ID: **55980004** Date Received: 6/15/2012 14:00 Matrix: Water
Sample ID: **MW-34** Date Collected: 6/13/2012 10:05

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
EDonors - MICR										
Analysis Desc: AM23G		Analytical Method: AM23G								
Lactic Acid	**0.11**	mg/l	0.10	0.010	1			6/30/2012 23:03	KB	
Acetic Acid	**0.052J**	mg/l	0.070	0.0060	1			6/30/2012 23:03	KB	
Propionic Acid	**0.018J**	mg/l	0.050	0.0070	1			6/30/2012 23:03	KB	
Butyric Acid	**0.049J**	mg/l	0.050	0.0040	1			6/30/2012 23:03	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.033	1			6/30/2012 23:03	KB	

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ANALYTICAL RESULTS QUALIFIERS

Workorder: 5598 ALEXANDER LF-SWS

PARAMETER QUALIFIERS

U	Indicates the compound was analyzed for, but not detected.
J	Estimated concentration greater than the set method detection limit (MDL) and less than the set reporting limit (RDL).

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Microseeps, Inc
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Phone: (412) 826-5245
Fax: (412) 826-3433

QUALITY CONTROL DATA

Workorder: 5598 ALEXANDER LF-SWS

QC Batch: EDON/1432 Analysis Method: AM23G

QC Batch Method: AM23G

Associated Lab Samples: 55980002, 55980004

METHOD BLANK: 12153

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
EDonors				
Lactic Acid	mg/l	0.10 U	0.10	
Acetic Acid	mg/l	0.070 U	0.070	
Propionic Acid	mg/l	0.050 U	0.050	
Butyric Acid	mg/l	0.050 U	0.050	
Pyruvic Acid	mg/l	0.15 U	0.15	

LABORATORY CONTROL SAMPLE: 12154

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
EDonors						
Lactic Acid	mg/l	2	2.3	114	70-130	
Acetic Acid	mg/l	2	2.0	98	70-130	
Propionic Acid	mg/l	2	1.9	94	70-130	
Butyric Acid	mg/l	2	1.8	93	70-130	
Pyruvic Acid	mg/l	2	2.0	102	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 12155 12156 Original: 55960003

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	0.25	2	2.2	2.2	96	96	70-130	0	30	
Acetic Acid	mg/l	0.093	2	1.9	2.0	92	97	70-130	5.3	30	
Propionic Acid	mg/l	0.013	2	1.8	1.9	91	96	70-130	5.3	30	
Butyric Acid	mg/l	0	2	1.8	1.9	90	94	70-130	4.3	30	
Pyruvic Acid	mg/l	0	2	2.1	2.1	103	104	70-130	0.97	30	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 12157 12158 Original: 55960007

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
EDonors											

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

QUALITY CONTROL DATA

Workorder: 5598 ALEXANDER LF-SWS

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 12157 12158 Original: 55960007

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Lactic Acid	mg/l	0.26	2	2.3	2.4	104	110	70-130	5.6	30	
Acetic Acid	mg/l	0.097	2	2.0	2.0	95	97	70-130	2.1	30	
Propionic Acid	mg/l	0.018	2	1.9	2.0	94	97	70-130	3.1	30	
Butyric Acid	mg/l	0	2	1.8	1.9	92	97	70-130	5.3	30	
Pyruvic Acid	mg/l	0	2	2.0	2.1	102	105	70-130	2.9	30	

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QUALITY CONTROL DATA

Workorder: 5598 ALEXANDER LF-SWS

QC Batch: DISG/2253 Analysis Method: AM20GAX

QC Batch Method: AM20GAX

Associated Lab Samples: 55980001, 55980003

METHOD BLANK: 12561

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
RISK				
Methane	ug/l	0.015 U	0.015	
Ethane	ug/l	0.010 U	0.010	
Ethene	ug/l	0.010 U	0.010	

METHOD BLANK: 12562

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
RISK				
Hydrogen	nM	0.60 U	0.60	

LABORATORY CONTROL SAMPLE & LCSD: 12563 12565

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK										
Ethane	ug/l	3.3	3.2	3.3	97	101	80-120	4	20	
Ethene	ug/l	7.9	7.7	8.0	98	102	80-120	4	20	

LABORATORY CONTROL SAMPLE & LCSD: 12564 12566

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK										
Hydrogen	nM	13	13	13	100	104	80-120	3.9	20	

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 5598 ALEXANDER LF-SWS

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
55980002	MW-33			AM23G	EDON/1432
55980004	MW-34			AM23G	EDON/1432
55980001	MW-33			AM20GAX	DISG/2253
55980003	MW-34			AM20GAX	DISG/2253

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5598

Chain of Custody

Pace Analytical®
www.pacelabs.com

Workorder: 92121375 **Workorder Name:** ALEXANDER LF-SWS **Results Requested** 6/28/2012

Report / Invoice To

Kevin Godwin
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
Phone (704)875-9092
Email: kevin.godwin@pacelabs.com

Subcontract To

Microseeps

P.O. CHS 11291

Requested Analysis

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved	Hydrogen AM20GAX	Methane Ethane Ethene AM20GAX	VFA AM23G	LAB USE ONLY
1	MW-33	6/13/2012 11:10	92121375009	Water	5	X	X	X	
2	MW-34	6/13/2012 10:05	92121375010	Water	5	X	X	X	
3									
4									
5									

Transfers	Released By	Date/Time	Received By	Date/Time
1	[illegible]	6/14/12 11:18	[illegible]	6-15-12 14:00
2				
3				

Comments

Cooler Temperature on Receipt 2 °C **Custody Seal** Y or N **Received on Ice** Y or N **Samples Intact** Y or N

* report results in ug/L
* VFA report only: Acetic Acid
  propionic Acid
  Butyric Acid
  Pyruvic Acid
  Lactic Acid

* report MDL + J-Flag

NON-CONFORMANCE FORM

Microseeps Project Number: 5598

Date: 6-15-12 Time of Receipt: 1400 Receiver: HLanYoung

Client: PaCe

REASON FOR NON-CONFORMANCE:

MW-34: vials for LLVFA analysis were correctly preserved with BAK but with incorrect dark grey septa.

ACTION TAKEN:

Client name: Kevin Godwin Date: 6/19/12 Time: email

Per attached email - ok to proceed.

Customer Service Initials: RR Date: 6/19/12

Robbin Robl

To: Kevin Godwin
Subject: RE: Alexander LF-SWS / 92121375

Thank you!

From: Kevin Godwin [mailto:Kevin.Godwin@pacelabs.com]
Sent: Tuesday, June 19, 2012 9:43 AM
To: Robbin Robl
Subject: RE: Alexander LF-SWS / 92121375

Please proceed with analysis.

Kevin Godwin
Project Manager
Pace Analytical
9800 Kincey Ave, Suite 100
Huntersville, NC 28078
Phone: 704.875.9092 ext. 237
Fax: 704.875.9091
www.pacelabs.com

Customer survey at http://www.pacelabs.com/about-us/customer-service-survey/survey.html

---

>>> "Robbin Robl" <rrobl@microseeps.com> 6/19/2012 9:40 AM >>>
Yes to both. ☺

From: Kevin Godwin [mailto:Kevin.Godwin@pacelabs.com]
Sent: Tuesday, June 19, 2012 9:26 AM
To: Robbin Robl
Subject: Re: Alexander LF-SWS / 92121375

So did you receive a CO2 vial for the LLVFA for MW-34? Were both vials this way?

Kevin Godwin
Project Manager
Pace Analytical
9800 Kincey Ave, Suite 100
Huntersville, NC 28078
Phone: 704.875.9092 ext. 237
Fax: 704.875.9091
www.pacelabs.com

Customer survey at http://www.pacelabs.com/about-us/customer-service-survey/survey.html

>>> "Robbin Robl" <rrobl@microseeps.com> 6/19/2012 9:16 AM >>>
Hi Kevin,

We received your project Alexander LF-SWS / 92121375 yesterday. I also received a non-conformance for the LLVFA on sample MW-34. It was received with the correct preservative, however the wrong cap with the dark gray septa – the same vials that we use for CO2, etc.

Unless otherwise stated, we will proceed with the analysis.

Thank you!
Robbin

Robbin Robl
Microseeps, Inc.
220 William Pitt Way
Pittsburgh, PA 15238
Phone: 412-826-5245
Fax: 412-826-3433

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Cooler Receipt Form

Client Name: Pace Analytical Chr. Project: Alexander 9212135 Lab Work Order: 5598

A. **Shipping/Container Information** (circle appropriate response)

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

Tracking Number: N/A

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: 2.0 **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 : CO **Date:** 6/15/12

Project Manager Review : RK **Date:** 6/19/12

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

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

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 / Requested Analysis Filtered (Y/N)	VOCs Appendix I	Total Metals Appendix I	Alkalinity	Chloride	Sulfate	Sulfide	TOC	COD	Iron	Nitrate	VOCs Appendix II			
																		Y/N	N	N	N	N	N	N	N	N	N	N	N			
1	MW-1	WT	G						4			1	3						x	x												
2	MW-1B	WT	G						4			1	3						x	x												
3	MW-2	WT	G						4			1	3						x	x												
4	MW-4R	WT	G			6/12/12	4:30		4			1	3						x	x												001
5	MW-5	WT	G			6/13/12	1:15					2	5						x	x	x	x	x	x	x	x	x	x				002
6	MW-6	WT	G									2	5						x	x	x	x	x	x	x	x	x	x				
7	MW-9	WT	G						4			1	3						x	x												
8	MW-10	WT	G						4			1	3						x	x				x								
9	MW-12	WT	G						4			1	3							x	x	x	x	x	x	x	x	x	x			
10	MW-12D	WT	G			6/13/12	4:35		4			1	3						x	x	x	x	x	x	x	x	x	x				003
11	MW-13	WT	G						4			1	3						x	x												
12	MW-14	WT	G						4			1	3						x	x				x								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	MESCO	6/14/12	7:40	Pace	6/14/12	7:40	
	Pace	6/14/12	1521		6/14/12	15:25	

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	Jonathan Pfohl
SIGNATURE of SAMPLER:	DATE Signed: 6/14/12

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

Regulatory Agency

State / Location: North Carolina

Requested Analysis Filtered (Y/N)

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	VOCs Appendix I	Total Metals Appendix I	Alkalinty	Chloride	Sulfate	Sulfide	TOC	COD	Iron	Nitrate	VOCs Appendix II	BOD		
																			N	N	N	N	N	N	N	N	N	N	N	N	
1	MW-15	WT	G						4			3	1						x	x											
2	MW-16	WT	G						4			3	1						x	x	x	x	x	x	x	x	x	x			
3	MW-17	WT	G						4			3	1						x	x											
4	MW-18	WT	G																	x	x	x	x	x	x	x	x	x	x	x	
5	MW-19	WT	G						4			3	1						x	x											
6	MW-20	WT	G						4			3	1						x	x											
7	MW-21	WT	G						4			3	1						x	x											
8	MW-22	WT	G						4			3	1						x	x											
9	MW-23	WT	G						4			3	1						x	x											
10	MW-24	WT	G			6/13/12	3:30		4			3	1						x	x	x	x	x	x	x	x	x	x			004
11	MW-25	WT	G			6/13/12	8:05		4			3	1						x	x	x	x	x	x	x	x	x	x			005
12	MW-32	WT	G			6/13/12	3:00		4			3	1						x	x											006

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	6/14/12	7:40	Pace	6/14/12	7:40	
	Pace	6/14/12	1521		6/14/12	15:25	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jonathan Pfohl

SIGNATURE of SAMPLER:

DATE Signed: 6/14/12

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

Partial Submittal
More will Follow

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
Required Client Information:

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

Section B
Required Project Information:

Report To:	Jonathan Pfohl
Copy To:	
Purchase Order No.	
Client Project ID:	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)	SAMPLE TYPE (G=GRAB C=)	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 I	Total Metals Appendix II				Sulfide					VOCs Appendix II		
																			N	N	N	N	N	N	N	N	N	N	N	N	
1	SW-3	WT	G						4			3	1						x	x											
2	SW-4R	WT	G						4			3	1						x	x											
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			6/13/12	11:10		4			3	1						x	x											
6	MW-34	WT	G			6/13/12	10:05		4			3	1						x	x											
7	EB	WT	G						4			3	1							x				x					x		
8	FB	WT	G						4			3	1							x									x		
9	TB	WT	G						2				2																x		
10																															
11																															
12																															

08/13/15

007
008

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	MESCO	6/14/12	7:40	Pace	6/14/12	7:40	
	Pace	6/14/12	1321		6/14/12	1525	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jonathan Pfohl

SIGNATURE of SAMPLER: [signature] DATE Signed: 6/14/12

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

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

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

Requested Analysis Filtered (Y/N)

ITEM#	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Hydrogen (Microseeps)	Methane/Ethane/Ethene (Microseeps)	VFAs (Microseeps via AM23G)	Alkalinity	Chloride	Sulfate	Sulfide	TOC	COD	BOD	Iron	Nitrate	
																			Y	N	N	N	N	N	N	N	N	N	N	N	
1	MW-33	WT	G			6/13/12	11:10													x	x	x	x	x	x	x	x	x	x	x	92121375
2	MW-34	WT	G			6/13/12	10:05													x	x	x	x	x	x	x	x	x	x	x	009 010
3																															
4																															
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	MESCO	6/14/12	7:40		6/14	7:40	
	Pace	6/14/12	1521		6/14/12	15:25	1.1

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	Jonathan Pfohl
SIGNATURE of SAMPLER:	DATE Signed: 6/14/12

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: May 7, 2012 Page 1 of 2
	Document Number: **F-CHR-CS-03-rev.07**	Issuing Authority: Pace Huntersville Quality Office

Client Name: Municipal Project # 92 121375

Where Received: ☑ Huntersville ☐ Asheville ☐ Eden

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

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

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

Thermometer Used: IR Gun T1101 T1102 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

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

Optional: Proj. Due Date: Proj. Name:

Corrected Cooler Temp.: 1.6 C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 6/14/12

		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.
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. *RCRD 3 vials for MW10 not on COC
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix:_____	☑Yes ☐No ☐N/A 6/13/12	12. *RCRD samples that have date/time on the COC.
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 of Sulfide for MW25 = 7
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed
Samples checked for dechlorination:	☑Yes ☐No ☐N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):_____		

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

Person Contacted: Jonathan Pfohl Date/Time: 6/14/12

Comments/ Resolution: Jonathan instructed to dispose of MW-10 vials. KG.

SCURF Review: KG **Date:** 6/14/12 **SRF Review:** KG **Date:** 6/15/12

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

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): N N N N N N N N N N N 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	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	VOCs Appendix I	Total Metals Appendix I	Alkalinity	Chloride	Sulfate	Sulfide	TOC	COD	Iron	Nitrate	VOCs Appendix II		
1	MW-1	WT	G						4			1	3						x	x											92121375
2	MW-1B	WT	G						4			1	3						x	x											
3	MW-2	WT	G						4			1	3						x	x											
4	~~MW-4R~~ (PS)	WT	G			6/12/12	4:30		4			1	3						x	x											
5	~~MW-5~~ (PS)	WT	G			6/13/12	1:15					2	5						x	x	x	x	x	x	x	x	x	x			
6	MW-6	WT	G			6/14/12	3:00					2	5						x	x	x	x	x	x	x	x	x	x			011
7	MW-9	WT	G			6/14/12	4:30		4			1	3						x	x											014
8	MW-10	WT	G			6/14/12	8:15		4			1	2				1		x	x				x							013
9	MW-12	WT	G			6/14/12	3:50		4			1	3							x	x	x	x	x	x	x	x	x	x		012
10	~~MW-12D~~ (PS)	WT	G			6/13/12	4:35		4			1	3						x	x	x	x	x	x	x	x	x	x			
11	MW-13	WT	G			6/14/12	8:50		4			1	3						x	x											016
12	MW-14	WT	G						4			1	3						x	x				x							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	MESCO	6/14/12	7:40	Pace	6/14/12	7:40				
	MESCO	6/15/12	7:35	Pace	6/15/12	7:35				
	Pace	6/15/12	1323	Pace	6/15/12	1320	21	Y	N	Y
							TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

PS= Previously Submitted

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jonathan Pfohl

SIGNATURE of SAMPLER: [signature] DATE Signed: 6/14/12

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 I	Total Metals Appendix I	Alkalinity	Chloride	Sulfate	Sulfide	TOC	COD	Iron	Nitrate	VOCs Appendix II	BOD		08121375
																			N	N	N	N	N	N	N	N	N	N	N	N	
1	MW-15	WT	G			6/14/12	9:30		4			3	1						x	x											017
2	MW-16	WT	G			6/14/12	1:15		4			3	1						x	x	x	x	x	x	x	x	x	x			013
3	MW-17	WT	G						4			3	1						x	x											
4	MW-18	WT	G			6/14/12	2:05													x	x	x	x	x	x	x	x	x	x		022
5	MW-19	WT	G			6/14/12	10:10		4			3	1						x	x											018
6	MW-20	WT	G			6/14/12	10:50		4			3	1						x	x											019
7	MW-21	WT	G			6/14/12	12:00		4			3	1						x	x											020
8	MW-22	WT	G			6/12/12	2:00		4			3	1						x	x											021
9	MW-23	WT	G			6/14/12	11:25		4			3	1						x	x											
10	~~MW-24~~ (PS)	WT	G			6/13/12	3:30		4			3	1						x	x	x	x	x	x	x	x	x	x			
11	~~MW-25~~ (PS)	WT	G			6/13/12	8:05		4			3	1						x	x	x	x	x	x	x	x	x	x			
12	~~MW-32~~ (PS)	WT	G			6/12/12	3:00		4			3	1						x	x											

Per Jonathan KG 6/15/12

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	(MESCO	6/14/12	7:40	Pace	6/14/12	740				
	(MESCO	6/15/12	7:35	Pace	6/15/12	7:35				
	Pace	6/15/12	1320	Pace	6/15/12	1320	2.1	Y	N	Y
							TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

PS = Previously submitted

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Jonathan Pfohl
SIGNATURE of SAMPLER:
DATE Signed: 6/14/12

Pace Analytical	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: May 7, 2012 Page 1 of 2
	Document Number: **F-CHR-CS-03-rev.07**	Issuing Authority: Pace Huntersville Quality Office

Client Name: Municipal Eng. Project # 92121375

Where Received: ☑ Huntersville ☐ Asheville ☐ Eden

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

Optional
Proj. Due Date:
Proj. Name:

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

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

Thermometer Used: IR Gun (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.: 2.1° C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: JMM 6-15-12

		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. did not receive MW-23 samples
Correct Containers Used:	☑Yes ☐No ☐N/A	9. did not receive BOD sample for MW-18
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☐Yes ☑No ☐N/A	12. no time or date on sample labels.
-Includes date/time/ID/Analysis Matrix:_____		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13. Sulfide for MW-12 has ph of 7
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☑No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed
Samples checked for dechlorination:	☑Yes ☐No ☐N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):_____		

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

Person Contacted: Jonathan Pfohl Date/Time: 6/18/12

Comments/ Resolution: MW-23 recieved by lab 6/15/12 @ 14:15. Bod for MW-18 was mistakenly left on COC by client. Bod is not needed for MW-18. KG.

SCURF Review: JG **Date:** 6/15/12 **SRF Review:** JG **Date:** 6/15/12

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®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Combine w/ other samples previously submitted. (Final submittal)

Page: 1 of 1

1564443

Section A Required Client Information:

Company: Municipal Engineering
Address:
Email To: jpfohl@mesco.com
Phone: Fax:
Requested Due Date/TAT: Standard

Section B Required Project Information:

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

Section C Invoice Information:

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

REGULATORY AGENCY

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

Site Location STATE: NC

Section D Required Client Information

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

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

Requested Analysis Filtered (Y/N): N

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: VOCs - App I	Metals - App I	sulfide	VOCs - App 2						Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-1	WT	G			6/15/12	10:35										✓	✓								N	0123
2	MW-1B						10:00										✓	✓									0124
3	MW-2						9:30										✓	✓									0125
4	MW-14						9:00										✓	✓	✓								0126
5	MW-17						8:15										✓	✓									0127
6	SW-3						11:20										✓	✓									0128
7	SW-4R						10:50										✓	✓									0129
8	SW-5						11:10										✓	✓									0130
9	SW-6						11:35										✓	✓									0131
10	EB						6:40AM											✓	✓	✓							0132
11	FB						6:50AM											✓		✓							0133
12	TB					Pace Filled														✓							0134

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Pace DI H2O	IMESCO	6/15/12	12:45		6/15/12	12:45	3.7	Y	N	Y
Geotech D. Bailey		6/15/12	14:15		6/15/12	1415				

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: J. Pfohl

SIGNATURE of SAMPLER:

DATE Signed (MM/DD/YY): 6/15/12

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

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

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

Pace Analytical	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: May 7, 2012 Page 1 of 2
	Document Number: **F-CHR-CS-03-rev.07**	Issuing Authority: Pace Huntersville Quality Office

Client Name: Municipal Project # 92121375

Where Received: ☑ Huntersville ☐ Asheville ☐ Eden

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

Collected:
Proj. Due Date:
Proj. Name:

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

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

Thermometer Used: IR Gun **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.: 3.7 C **Biological Tissue is Frozen:** Yes No N/A

Date and Initials of person examining contents: 06/15/12

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. No Times on Dates on samples
-Includes date/time/ID/Analysis Matrix: WT		Recived samples NOT on ice BACK
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☑Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased):_____		

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: [signature] **Date:** 6/15/12 **SRF Review:** [signature] **Date:** 6/15/12

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)

Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515
www.encolabs.com

Thursday, July 5, 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): C206148

Dear Jonathan Pfohl,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Friday, June 15, 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,

Chuck Smith

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 62.

PROJECT NARRATIVE

Client: Municipal Engineering Services (MU001)
Project: Alexander MSWLF

Overview

Environmental Conservation Laboratories, Inc. (ENCO) analyzed all submitted samples in accordance with the methods referenced in the laboratory report. Any particular difficulties encountered during sample handling by ENCO are discussed in the QC Remarks section below.

Quality Control Samples

No Comments

Quality Control Remarks

During sample receipt, the Cyanide container for MW-33 was overlooked and not received. The error was discovered after the hold time had expired but the samples was distilled, analyzed and has been reported. The result has been "Q" qualified as being out of hold.

Other Comments

The analytical data presented in this report are consistent with the methods as referenced in the analytical report. Any exceptions or deviations are noted in the QC remarks section of this narrative or in the Flags/Notes and Definitions section of the report.

Released By:
Environmental Conservation Laboratories, Inc.

Chuck Smith
Project Manager

www.encolabs.com

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: MW-2 | **Lab ID: C206148-01** | **Sampled: 06/15/12 09:30** | **Received: 06/15/12 15:01**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	06/22/12	07/30/12	06/20/12	18:30	6/26/2012 12:15

Client ID: MW-5 | **Lab ID: C206148-02** | **Sampled: 06/13/12 13:15** | **Received: 06/15/12 15:01**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 9014	06/27/12		06/21/12	14:07	6/21/2012 17:41

Client ID: MW-5 | **Lab ID: C206148-02RE1** | **Sampled: 06/13/12 13:15** | **Received: 06/15/12 15:01**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
RSK-175	06/27/12		06/26/12	09:31	6/26/2012 20:03

Client ID: MW-6 | **Lab ID: C206148-03** | **Sampled: 06/14/12 15:00** | **Received: 06/15/12 15:01**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 7470A	07/12/12		06/20/12	09:11	6/20/2012 16:11
EPA 8270D	06/21/12	07/29/12	06/19/12	08:51	7/2/2012 10:37
RSK-175	06/28/12		06/26/12	09:31	6/26/2012 16:34

Client ID: MW-9 | **Lab ID: C206148-04** | **Sampled: 06/14/12 16:30** | **Received: 06/15/12 15:01**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	06/21/12	07/30/12	06/20/12	18:30	6/26/2012 12:28
EPA 8270D	06/21/12	07/29/12	06/19/12	08:51	7/2/2012 11:07

Client ID: MW-10 | **Lab ID: C206148-05** | **Sampled: 06/14/12 08:15** | **Received: 06/15/12 15:01**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 9014	06/28/12		06/21/12	14:07	6/21/2012 17:47

Client ID: MW-11 | **Lab ID: C206148-06** | **Sampled: 06/14/12 17:10** | **Received: 06/15/12 15:01**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	06/21/12	07/30/12	06/20/12	18:30	6/26/2012 12:42

Client ID: MW-11 | **Lab ID: C206148-06RE1** | **Sampled: 06/14/12 17:10** | **Received: 06/15/12 15:01**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
RSK-175	06/28/12		06/26/12	09:31	6/26/2012 20:19

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Client ID: MW-12 MS/MSD	Lab ID: C206148-07	Sampled: 06/14/12 15:50	Received: 06/15/12 15:01

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	06/21/12	07/30/12	06/20/12	18:30	6/26/2012 12:55

Client ID: MW-12 MS/MSD	Lab ID: C206148-07RE1	Sampled: 06/14/12 15:50	Received: 06/15/12 15:01

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
RSK-175	06/28/12	06/26/12	09:31	6/26/2012 20:35

Client ID: MW-12D	Lab ID: C206148-08	Sampled: 06/13/12 16:35	Received: 06/15/12 15:01

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	06/20/12	07/30/12	06/20/12	18:30	6/26/2012 13:08
EPA 9014	06/27/12		06/21/12	14:07	6/21/2012 17:49

Client ID: MW-12D	Lab ID: C206148-08RE1	Sampled: 06/13/12 16:35	Received: 06/15/12 15:01

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
RSK-175	06/27/12	06/26/12	09:31	6/27/2012 09:30

Client ID: MW-13	Lab ID: C206148-09	Sampled: 06/14/12 08:50	Received: 06/15/12 15:01

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 9014	06/28/12	06/21/12	14:07	6/21/2012 17:51

Client ID: MW-14	Lab ID: C206148-10	Sampled: 06/15/12 09:00	Received: 06/15/12 15:01

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	06/22/12	07/30/12	06/20/12	18:30	6/26/2012 13:21

Client ID: MW-15	Lab ID: C206148-11	Sampled: 06/14/12 09:30	Received: 06/15/12 15:01

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 7470A	07/12/12	06/20/12	09:11	6/20/2012 16:13
EPA 9014	06/28/12	06/21/12	14:07	6/21/2012 17:53

Client ID: MW-16	Lab ID: C206148-12RE1	Sampled: 06/14/12 13:15	Received: 06/15/12 15:01

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
RSK-175	06/28/12	06/26/12	09:31	6/27/2012 09:46

Client ID: MW-17	Lab ID: C206148-13	Sampled: 06/15/12 08:15	Received: 06/15/12 15:01

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 7470A	07/13/12		06/20/12	09:11	6/20/2012 17:03
EPA 8270D	06/22/12	07/29/12	06/19/12	08:51	7/2/2012 11:36

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Client ID: MW-18	Lab ID: C206148-14	Sampled: 06/14/12 14:05	Received: 06/15/12 15:01

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 7470A	07/12/12		06/20/12	09:11	6/20/2012 16:22
EPA 9014	06/28/12		06/21/12	14:07	6/21/2012 17:55
RSK-175	06/28/12		06/26/12	09:31	6/26/2012 17:55

Client ID: MW-21	Lab ID: C206148-15	Sampled: 06/14/12 12:00	Received: 06/15/12 15:01

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 7470A	07/12/12		06/20/12	09:11	6/20/2012 16:24

Client ID: MW-24	Lab ID: C206148-16	Sampled: 06/13/12 15:30	Received: 06/15/12 15:01

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	06/20/12	07/30/12	06/20/12	18:30	6/26/2012 13:35
RSK-175	06/27/12		06/26/12	09:31	6/26/2012 18:11

Client ID: MW-25	Lab ID: C206148-17RE1	Sampled: 06/13/12 08:05	Received: 06/15/12 15:01

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
RSK-175	06/27/12		06/26/12	09:31	6/27/2012 10:02

Client ID: MW-26	Lab ID: C206148-18RE1	Sampled: 06/13/12 14:45	Received: 06/15/12 15:01

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
RSK-175	06/27/12		06/26/12	09:31	6/27/2012 10:18

Client ID: MW-27	Lab ID: C206148-19	Sampled: 06/13/12 14:00	Received: 06/15/12 15:01

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
RSK-175	06/27/12		06/26/12	09:31	6/26/2012 18:59

Client ID: MW-31	Lab ID: C206148-20	Sampled: 06/13/12 09:00	Received: 06/15/12 15:01

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 9014	06/27/12		06/21/12	14:07	6/21/2012 17:57

Client ID: MW-31	Lab ID: C206148-20RE1	Sampled: 06/13/12 09:00	Received: 06/15/12 15:01

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
RSK-175	06/27/12		06/26/12	09:31	6/27/2012 10:34

Client ID: MW-32	Lab ID: C206148-21	Sampled: 06/12/12 15:00	Received: 06/15/12 15:01

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 7470A	07/10/12		06/20/12	09:11	6/20/2012 16:26

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Client ID: MW-33	Lab ID: C206148-22	Sampled: 06/13/12 11:10	Received: 06/15/12 15:01

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 9014	06/27/12	07/02/12 14:13	7/3/2012 14:29

Client ID: MW-15	Lab ID: C206148-23	Sampled: 06/14/12 09:30	Received: 06/15/12 15:01

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 7470A	07/12/12	06/20/12 09:11	6/20/2012 16:28

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: MW-5 **Lab ID: C206148-02RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Methane	12.4	D	500	0.215	0.500	NE	mg/L	RSK-175	

Client ID: MW-6 **Lab ID: C206148-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Methane	0.00282		1	0.000430	0.00100	NE	mg/L	RSK-175	

Client ID: MW-11 **Lab ID: C206148-06RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Methane	4.18	D	100	0.0430	0.100	NE	mg/L	RSK-175	

Client ID: MW-12 MS/MSD **Lab ID: C206148-07RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Methane	11.8	D	500	0.215	0.500	NE	mg/L	RSK-175	

Client ID: MW-12D **Lab ID: C206148-08RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Methane	4.02	D	100	0.0430	0.100	NE	mg/L	RSK-175	

Client ID: MW-16 **Lab ID: C206148-12RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Methane	8.93	D	500	0.215	0.500	NE	mg/L	RSK-175	

Client ID: MW-17 **Lab ID: C206148-13**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Mercury - Total	0.265		1	0.170	0.200	0.2	ug/L	EPA 7470A	

Client ID: MW-21 **Lab ID: C206148-15**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Mercury - Total	0.233		1	0.170	0.200	0.2	ug/L	EPA 7470A	

Client ID: MW-24 **Lab ID: C206148-16**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Methane	0.000802	J	1	0.000430	0.00100	NE	mg/L	RSK-175	

Client ID: MW-25 **Lab ID: C206148-17RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Methane	2.20	D	100	0.0430	0.100	NE	mg/L	RSK-175	

Client ID: MW-26 **Lab ID: C206148-18RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Methane	2.93	D	100	0.0430	0.100	NE	mg/L	RSK-175	

Client ID: MW-27 **Lab ID: C206148-19**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Methane	0.00184		1	0.000430	0.00100	NE	mg/L	RSK-175	

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Client ID:	MW-31				Lab ID:	C206148-20RE1			
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Methane	0.137	D	10	0.00430	0.0100	NE	mg/L	RSK-175	

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ANALYTICAL RESULTS

Description: MW-2 | **Lab Sample ID:** C206148-01 | **Received:** 06/15/12 15:01

Matrix: Ground Water | **Sampled:** 06/15/12 09:30 | **Work Order:** C206148

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	06/26/12 12:15	MSZ	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	06/26/12 12:15	MSZ	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	06/26/12 12:15	MSZ	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	06/26/12 12:15	MSZ	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	06/26/12 12:15	MSZ	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	06/26/12 12:15	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	06/26/12 12:15	MSZ	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	06/26/12 12:15	MSZ	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	06/26/12 12:15	MSZ	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	06/26/12 12:15	MSZ	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	06/26/12 12:15	MSZ	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	06/26/12 12:15	MSZ	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	06/26/12 12:15	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	06/26/12 12:15	MSZ	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	06/26/12 12:15	MSZ	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	06/26/12 12:15	MSZ	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	06/26/12 12:15	MSZ	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	06/26/12 12:15	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	06/26/12 12:15	MSZ	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	06/26/12 12:15	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	06/26/12 12:15	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*	*2F20028*	*EPA 8081B*	*06/26/12 12:15*	*MSZ*	
Decachlorobiphenyl	*1.1*	*1*	*1.00*	*114 %*	*37-149*	*2F20028*	*EPA 8081B*	*06/26/12 12:15*	*MSZ*	

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: C206148-02
Sampled: 06/13/12 13:15
Sampled By: Jonathan Pfohl

Received: 06/15/12 15:01
Work Order: C206148

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	06/21/12 17:41	AJB	

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Description: MW-5
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C206148-02
Sampled: 06/13/12 13:15
Sampled By: Jonathan Pfohl

Received: 06/15/12 15:01
Work Order: C206148

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Methane [74-82-8]	**12.4**	D	mg/L	500	0.215	0.500	NE	RSK-175	06/26/12 20:03	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-6 | **Lab Sample ID:** C206148-03 | **Received:** 06/15/12 15:01

Matrix: Ground Water | **Sampled:** 06/14/12 15:00 | **Work Order:** C206148

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	07/02/12 10:37	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	07/02/12 10:37	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	07/02/12 10:37	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	07/02/12 10:37	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	07/02/12 10:37	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	07/02/12 10:37	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	07/02/12 10:37	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/02/12 10:37	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	07/02/12 10:37	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/02/12 10:37	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/02/12 10:37	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	07/02/12 10:37	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	07/02/12 10:37	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	07/02/12 10:37	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	07/02/12 10:37	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	07/02/12 10:37	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/02/12 10:37	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	07/02/12 10:37	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	07/02/12 10:37	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	07/02/12 10:37	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/02/12 10:37	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	07/02/12 10:37	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	07/02/12 10:37	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	07/02/12 10:37	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	07/02/12 10:37	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	07/02/12 10:37	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	07/02/12 10:37	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/02/12 10:37	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	07/02/12 10:37	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	07/02/12 10:37	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/02/12 10:37	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	07/02/12 10:37	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	07/02/12 10:37	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	07/02/12 10:37	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	07/02/12 10:37	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	07/02/12 10:37	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	07/02/12 10:37	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	07/02/12 10:37	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/02/12 10:37	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	07/02/12 10:37	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/02/12 10:37	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	07/02/12 10:37	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/02/12 10:37	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/02/12 10:37	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/02/12 10:37	DFM	

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Description: MW-6 | **Lab Sample ID:** C206148-03 | **Received:** 06/15/12 15:01

Matrix: Ground Water | **Sampled:** 06/14/12 15:00 | **Work Order:** C206148

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	07/02/12 10:37	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/02/12 10:37	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	07/02/12 10:37	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/02/12 10:37	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	07/02/12 10:37	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/02/12 10:37	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	07/02/12 10:37	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	07/02/12 10:37	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/02/12 10:37	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	07/02/12 10:37	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/02/12 10:37	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	07/02/12 10:37	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/02/12 10:37	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	6000	EPA 8270D	07/02/12 10:37	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	07/02/12 10:37	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/02/12 10:37	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	07/02/12 10:37	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	07/02/12 10:37	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	07/02/12 10:37	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	07/02/12 10:37	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	07/02/12 10:37	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	07/02/12 10:37	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	07/02/12 10:37	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/02/12 10:37	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	07/02/12 10:37	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/02/12 10:37	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	07/02/12 10:37	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	07/02/12 10:37	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	07/02/12 10:37	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	07/02/12 10:37	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/02/12 10:37	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/02/12 10:37	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	07/02/12 10:37	DFM	QV-01
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	07/02/12 10:37	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/02/12 10:37	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	07/02/12 10:37	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	07/02/12 10:37	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	07/02/12 10:37	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/02/12 10:37	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	07/02/12 10:37	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	07/02/12 10:37	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	07/02/12 10:37	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	07/02/12 10:37	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	07/02/12 10:37	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/02/12 10:37	DFM	

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Description: MW-6 | **Lab Sample ID:** C206148-03 | **Received:** 06/15/12 15:01

Matrix: Ground Water | **Sampled:** 06/14/12 15:00 | **Work Order:** C206148

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	07/02/12 10:37	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	07/02/12 10:37	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	07/02/12 10:37	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/02/12 10:37	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/02/12 10:37	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	07/02/12 10:37	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	07/02/12 10:37	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/02/12 10:37	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/02/12 10:37	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/02/12 10:37	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/02/12 10:37	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	07/02/12 10:37	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	07/02/12 10:37	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	07/02/12 10:37	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*84*	*1*	*100*	*84 %*	*10-179*	*2F19010*	*EPA 8270D*	*07/02/12 10:37*	*DFM*	
2-Fluorobiphenyl	*33*	*1*	*50.0*	*66 %*	*10-149*	*2F19010*	*EPA 8270D*	*07/02/12 10:37*	*DFM*	
2-Fluorophenol	*51*	*1*	*100*	*51 %*	*10-110*	*2F19010*	*EPA 8270D*	*07/02/12 10:37*	*DFM*	
Nitrobenzene-d5	*35*	*1*	*50.0*	*71 %*	*10-149*	*2F19010*	*EPA 8270D*	*07/02/12 10:37*	*DFM*	
Phenol-d5	*40*	*1*	*100*	*40 %*	*10-88*	*2F19010*	*EPA 8270D*	*07/02/12 10:37*	*DFM*	
Terphenyl-d14	*40*	*1*	*50.0*	*81 %*	*10-188*	*2F19010*	*EPA 8270D*	*07/02/12 10:37*	*DFM*	

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Description:	MW-6	**Lab Sample ID:**	C206148-03	**Received:**	06/15/12 15:01
Matrix:	Ground Water	**Sampled:**	06/14/12 15:00	**Work Order:**	C206148
Project:	Alexander MSWLF	**Sampled By:**	Jonathan Pfohl		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	06/20/12 16:11	T1D	

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Description: MW-6
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C206148-03
Sampled: 06/14/12 15:00
Sampled By: Jonathan Pfohl

Received: 06/15/12 15:01
Work Order: C206148

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Methane [74-82-8]	**0.00282**		mg/L	1	0.000430	0.00100	NE	RSK-175	06/26/12 16:34	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-9 | **Lab Sample ID:** C206148-04 | **Received:** 06/15/12 15:01

Matrix: Ground Water | **Sampled:** 06/14/12 16:30 | **Work Order:** C206148

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	07/02/12 11:07	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	07/02/12 11:07	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	07/02/12 11:07	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	07/02/12 11:07	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	07/02/12 11:07	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	07/02/12 11:07	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	07/02/12 11:07	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/02/12 11:07	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	07/02/12 11:07	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/02/12 11:07	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/02/12 11:07	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	07/02/12 11:07	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	07/02/12 11:07	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	07/02/12 11:07	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	07/02/12 11:07	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	07/02/12 11:07	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/02/12 11:07	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	07/02/12 11:07	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	07/02/12 11:07	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	07/02/12 11:07	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/02/12 11:07	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	07/02/12 11:07	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	07/02/12 11:07	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	07/02/12 11:07	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	07/02/12 11:07	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	07/02/12 11:07	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	07/02/12 11:07	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/02/12 11:07	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	07/02/12 11:07	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	07/02/12 11:07	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/02/12 11:07	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	07/02/12 11:07	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	07/02/12 11:07	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	07/02/12 11:07	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	07/02/12 11:07	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	07/02/12 11:07	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	07/02/12 11:07	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	07/02/12 11:07	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/02/12 11:07	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	07/02/12 11:07	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/02/12 11:07	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	07/02/12 11:07	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/02/12 11:07	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/02/12 11:07	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/02/12 11:07	DFM	

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Description: MW-9 | **Lab Sample ID:** C206148-04 | **Received:** 06/15/12 15:01

Matrix: Ground Water | **Sampled:** 06/14/12 16:30 | **Work Order:** C206148

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	07/02/12 11:07	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/02/12 11:07	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	07/02/12 11:07	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/02/12 11:07	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	07/02/12 11:07	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/02/12 11:07	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	07/02/12 11:07	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	07/02/12 11:07	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/02/12 11:07	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	07/02/12 11:07	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/02/12 11:07	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	07/02/12 11:07	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/02/12 11:07	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	6000	EPA 8270D	07/02/12 11:07	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	07/02/12 11:07	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/02/12 11:07	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	07/02/12 11:07	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	07/02/12 11:07	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	07/02/12 11:07	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	07/02/12 11:07	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	07/02/12 11:07	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	07/02/12 11:07	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	07/02/12 11:07	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/02/12 11:07	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	07/02/12 11:07	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/02/12 11:07	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	07/02/12 11:07	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	07/02/12 11:07	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	07/02/12 11:07	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	07/02/12 11:07	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/02/12 11:07	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/02/12 11:07	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	07/02/12 11:07	DFM	QV-01
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	07/02/12 11:07	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/02/12 11:07	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	07/02/12 11:07	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	07/02/12 11:07	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	07/02/12 11:07	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/02/12 11:07	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	07/02/12 11:07	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	07/02/12 11:07	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	07/02/12 11:07	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	07/02/12 11:07	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	07/02/12 11:07	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/02/12 11:07	DFM	

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Description: MW-9 | **Lab Sample ID:** C206148-04 | **Received:** 06/15/12 15:01

Matrix: Ground Water | **Sampled:** 06/14/12 16:30 | **Work Order:** C206148

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	07/02/12 11:07	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	07/02/12 11:07	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	07/02/12 11:07	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/02/12 11:07	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/02/12 11:07	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	07/02/12 11:07	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	07/02/12 11:07	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/02/12 11:07	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/02/12 11:07	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/02/12 11:07	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/02/12 11:07	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	07/02/12 11:07	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	07/02/12 11:07	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	07/02/12 11:07	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*90*	*1*	*100*	*90 %*	*10-179*	*2F19010*	*EPA 8270D*	*07/02/12 11:07*	*DFM*	
2-Fluorobiphenyl	*38*	*1*	*50.0*	*76 %*	*10-149*	*2F19010*	*EPA 8270D*	*07/02/12 11:07*	*DFM*	
2-Fluorophenol	*58*	*1*	*100*	*58 %*	*10-110*	*2F19010*	*EPA 8270D*	*07/02/12 11:07*	*DFM*	
Nitrobenzene-d5	*38*	*1*	*50.0*	*77 %*	*10-149*	*2F19010*	*EPA 8270D*	*07/02/12 11:07*	*DFM*	
Phenol-d5	*45*	*1*	*100*	*45 %*	*10-88*	*2F19010*	*EPA 8270D*	*07/02/12 11:07*	*DFM*	
Terphenyl-d14	*42*	*1*	*50.0*	*85 %*	*10-188*	*2F19010*	*EPA 8270D*	*07/02/12 11:07*	*DFM*	

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Description: MW-9 | **Lab Sample ID:** C206148-04 | **Received:** 06/15/12 15:01

Matrix: Ground Water | **Sampled:** 06/14/12 16:30 | **Work Order:** C206148

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	06/26/12 12:28	MSZ	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	06/26/12 12:28	MSZ	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	06/26/12 12:28	MSZ	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	06/26/12 12:28	MSZ	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	06/26/12 12:28	MSZ	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	06/26/12 12:28	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	06/26/12 12:28	MSZ	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	06/26/12 12:28	MSZ	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	06/26/12 12:28	MSZ	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	06/26/12 12:28	MSZ	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	06/26/12 12:28	MSZ	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	06/26/12 12:28	MSZ	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	06/26/12 12:28	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	06/26/12 12:28	MSZ	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	06/26/12 12:28	MSZ	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	06/26/12 12:28	MSZ	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	06/26/12 12:28	MSZ	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	06/26/12 12:28	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	06/26/12 12:28	MSZ	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	06/26/12 12:28	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	06/26/12 12:28	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.89*	*1*	*1.00*	*89 %*	*44-134*	*2F20028*	*EPA 8081B*	*06/26/12 12:28*	*MSZ*	
Decachlorobiphenyl	*1.2*	*1*	*1.00*	*118 %*	*37-149*	*2F20028*	*EPA 8081B*	*06/26/12 12:28*	*MSZ*	

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
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C206148-05
Sampled: 06/14/12 08:15
Sampled By: Jonathan Pfohl

Received: 06/15/12 15:01
Work Order: C206148

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	06/21/12 17:47	AJB	

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:** C206148-06 | **Received:** 06/15/12 15:01

Matrix: Ground Water | **Sampled:** 06/14/12 17:10 | **Work Order:** C206148

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	06/26/12 12:42	MSZ	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	06/26/12 12:42	MSZ	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	06/26/12 12:42	MSZ	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	06/26/12 12:42	MSZ	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	06/26/12 12:42	MSZ	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	06/26/12 12:42	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	06/26/12 12:42	MSZ	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	06/26/12 12:42	MSZ	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	06/26/12 12:42	MSZ	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	06/26/12 12:42	MSZ	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	06/26/12 12:42	MSZ	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	06/26/12 12:42	MSZ	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	06/26/12 12:42	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	06/26/12 12:42	MSZ	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	06/26/12 12:42	MSZ	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	06/26/12 12:42	MSZ	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	06/26/12 12:42	MSZ	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	06/26/12 12:42	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	06/26/12 12:42	MSZ	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	06/26/12 12:42	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	06/26/12 12:42	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.83*	*1*	*1.00*	*83 %*	*44-134*	*2F20028*	*EPA 8081B*	*06/26/12 12:42*	*MSZ*	
Decachlorobiphenyl	*0.58*	*1*	*1.00*	*58 %*	*37-149*	*2F20028*	*EPA 8081B*	*06/26/12 12:42*	*MSZ*	

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Description: MW-11
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C206148-06
Sampled: 06/14/12 17:10
Sampled By: Jonathan Pfohl

Received: 06/15/12 15:01
Work Order: C206148

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Methane [74-82-8]	**4.18**	D	mg/L	100	0.0430	0.100	NE	RSK-175	06/26/12 20:19	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: C206148-07
Sampled: 06/14/12 15:50
Sampled By: Jonathan Pfohl

Received: 06/15/12 15:01
Work Order: C206148

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	06/26/12 12:55	MSZ	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	06/26/12 12:55	MSZ	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	06/26/12 12:55	MSZ	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	06/26/12 12:55	MSZ	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	06/26/12 12:55	MSZ	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	06/26/12 12:55	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	06/26/12 12:55	MSZ	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	06/26/12 12:55	MSZ	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	06/26/12 12:55	MSZ	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	06/26/12 12:55	MSZ	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	06/26/12 12:55	MSZ	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	06/26/12 12:55	MSZ	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	06/26/12 12:55	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	06/26/12 12:55	MSZ	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	06/26/12 12:55	MSZ	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	06/26/12 12:55	MSZ	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	06/26/12 12:55	MSZ	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	06/26/12 12:55	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	06/26/12 12:55	MSZ	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	06/26/12 12:55	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	06/26/12 12:55	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.93*	*1*	*1.00*	*93 %*	*44-134*	*2F20028*	*EPA 8081B*	*06/26/12 12:55*	*MSZ*	
Decachlorobiphenyl	*1.1*	*1*	*1.00*	*108 %*	*37-149*	*2F20028*	*EPA 8081B*	*06/26/12 12:55*	*MSZ*	

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Description: MW-12 MS/MSD
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C206148-07
Sampled: 06/14/12 15:50
Sampled By: Jonathan Pfohl

Received: 06/15/12 15:01
Work Order: C206148

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Methane [74-82-8]	**11.8**	D	mg/L	500	0.215	0.500	NE	RSK-175	06/26/12 20:35	GMB	

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Description: MW-12D
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C206148-08
Sampled: 06/13/12 16:35
Sampled By: Jonathan Pfohl

Received: 06/15/12 15:01
Work Order: C206148

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	06/26/12 13:08	MSZ	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	06/26/12 13:08	MSZ	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	06/26/12 13:08	MSZ	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	06/26/12 13:08	MSZ	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	06/26/12 13:08	MSZ	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	06/26/12 13:08	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	06/26/12 13:08	MSZ	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	06/26/12 13:08	MSZ	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	06/26/12 13:08	MSZ	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	06/26/12 13:08	MSZ	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	06/26/12 13:08	MSZ	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	06/26/12 13:08	MSZ	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	06/26/12 13:08	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	06/26/12 13:08	MSZ	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	06/26/12 13:08	MSZ	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	06/26/12 13:08	MSZ	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	06/26/12 13:08	MSZ	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	06/26/12 13:08	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	06/26/12 13:08	MSZ	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	06/26/12 13:08	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	06/26/12 13:08	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.71*	*1*	*1.00*	*71 %*	*44-134*	*2F20028*	*EPA 8081B*	*06/26/12 13:08*	*MSZ*	
Decachlorobiphenyl	*1.1*	*1*	*1.00*	*113 %*	*37-149*	*2F20028*	*EPA 8081B*	*06/26/12 13:08*	*MSZ*	

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Description: MW-12D
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C206148-08
Sampled: 06/13/12 16:35
Sampled By: Jonathan Pfohl

Received: 06/15/12 15:01
Work Order: C206148

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	06/21/12 17:49	AJB	

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Description: MW-12D
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C206148-08
Sampled: 06/13/12 16:35
Sampled By: Jonathan Pfohl

Received: 06/15/12 15:01
Work Order: C206148

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Methane [74-82-8]	**4.02**	D	mg/L	100	0.0430	0.100	NE	RSK-175	06/27/12 09:30	GMB	

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Description: MW-13 | **Lab Sample ID:** C206148-09 | **Received:** 06/15/12 15:01

Matrix: Ground Water | **Sampled:** 06/14/12 08:50 | **Work Order:** C206148

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	06/21/12 17:51	AJB	

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:** C206148-10 | **Received:** 06/15/12 15:01

Matrix: Ground Water | **Sampled:** 06/15/12 09:00 | **Work Order:** C206148

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	06/26/12 13:21	MSZ	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	06/26/12 13:21	MSZ	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	06/26/12 13:21	MSZ	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	06/26/12 13:21	MSZ	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	06/26/12 13:21	MSZ	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	06/26/12 13:21	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	06/26/12 13:21	MSZ	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	06/26/12 13:21	MSZ	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	06/26/12 13:21	MSZ	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	06/26/12 13:21	MSZ	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	06/26/12 13:21	MSZ	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	06/26/12 13:21	MSZ	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	06/26/12 13:21	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	06/26/12 13:21	MSZ	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	06/26/12 13:21	MSZ	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	06/26/12 13:21	MSZ	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	06/26/12 13:21	MSZ	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	06/26/12 13:21	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	06/26/12 13:21	MSZ	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	06/26/12 13:21	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	06/26/12 13:21	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.70*	*1*	*1.00*	*70 %*	*44-134*	*2F20028*	*EPA 8081B*	*06/26/12 13:21*	*MSZ*	
Decachlorobiphenyl	*0.96*	*1*	*1.00*	*96 %*	*37-149*	*2F20028*	*EPA 8081B*	*06/26/12 13:21*	*MSZ*	

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
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C206148-11
Sampled: 06/14/12 09:30
Sampled By: Jonathan Pfohl

Received: 06/15/12 15:01
Work Order: C206148

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	06/20/12 16:13	T1D	

www.encolabs.com

Description: MW-15
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C206148-11
Sampled: 06/14/12 09:30
Sampled By: Jonathan Pfohl

Received: 06/15/12 15:01
Work Order: C206148

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	06/21/12 17:53	AJB	

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
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C206148-12
Sampled: 06/14/12 13:15
Sampled By: Jonathan Pfohl

Received: 06/15/12 15:01
Work Order: C206148

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Methane [74-82-8]	**8.93**	D	mg/L	500	0.215	0.500	NE	RSK-175	06/27/12 09:46	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-17 | **Lab Sample ID:** C206148-13 | **Received:** 06/15/12 15:01

Matrix: Ground Water | **Sampled:** 06/15/12 08:15 | **Work Order:** C206148

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	07/02/12 11:36	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	07/02/12 11:36	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	07/02/12 11:36	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	07/02/12 11:36	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	07/02/12 11:36	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	07/02/12 11:36	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	07/02/12 11:36	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/02/12 11:36	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	07/02/12 11:36	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/02/12 11:36	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/02/12 11:36	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	07/02/12 11:36	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	07/02/12 11:36	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	07/02/12 11:36	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	07/02/12 11:36	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	07/02/12 11:36	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/02/12 11:36	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	07/02/12 11:36	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	07/02/12 11:36	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	07/02/12 11:36	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/02/12 11:36	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	07/02/12 11:36	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	07/02/12 11:36	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	07/02/12 11:36	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	07/02/12 11:36	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	07/02/12 11:36	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	07/02/12 11:36	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/02/12 11:36	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	07/02/12 11:36	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	07/02/12 11:36	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/02/12 11:36	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	07/02/12 11:36	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	07/02/12 11:36	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	07/02/12 11:36	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	07/02/12 11:36	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	07/02/12 11:36	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	07/02/12 11:36	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	07/02/12 11:36	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/02/12 11:36	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	07/02/12 11:36	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/02/12 11:36	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	07/02/12 11:36	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/02/12 11:36	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/02/12 11:36	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/02/12 11:36	DFM	

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Description: MW-17 | **Lab Sample ID:** C206148-13 | **Received:** 06/15/12 15:01

Matrix: Ground Water | **Sampled:** 06/15/12 08:15 | **Work Order:** C206148

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	07/02/12 11:36	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/02/12 11:36	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	07/02/12 11:36	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/02/12 11:36	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	07/02/12 11:36	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/02/12 11:36	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	07/02/12 11:36	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	07/02/12 11:36	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/02/12 11:36	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	07/02/12 11:36	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/02/12 11:36	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	07/02/12 11:36	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/02/12 11:36	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	6000	EPA 8270D	07/02/12 11:36	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	07/02/12 11:36	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/02/12 11:36	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	07/02/12 11:36	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	07/02/12 11:36	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	07/02/12 11:36	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	07/02/12 11:36	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	07/02/12 11:36	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	07/02/12 11:36	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	07/02/12 11:36	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/02/12 11:36	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	07/02/12 11:36	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/02/12 11:36	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	07/02/12 11:36	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	07/02/12 11:36	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	07/02/12 11:36	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	07/02/12 11:36	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/02/12 11:36	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/02/12 11:36	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	07/02/12 11:36	DFM	QV-01
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	07/02/12 11:36	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/02/12 11:36	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	07/02/12 11:36	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	07/02/12 11:36	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	07/02/12 11:36	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/02/12 11:36	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	07/02/12 11:36	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	07/02/12 11:36	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	07/02/12 11:36	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	07/02/12 11:36	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	07/02/12 11:36	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/02/12 11:36	DFM	

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Description: MW-17 | **Lab Sample ID:** C206148-13 | **Received:** 06/15/12 15:01

Matrix: Ground Water | **Sampled:** 06/15/12 08:15 | **Work Order:** C206148

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	07/02/12 11:36	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	07/02/12 11:36	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	07/02/12 11:36	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/02/12 11:36	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/02/12 11:36	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	07/02/12 11:36	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	07/02/12 11:36	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/02/12 11:36	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/02/12 11:36	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/02/12 11:36	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/02/12 11:36	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	07/02/12 11:36	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	07/02/12 11:36	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	07/02/12 11:36	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*96*	*1*	*100*	*96 %*	*10-179*	*2F19010*	*EPA 8270D*	*07/02/12 11:36*	*DFM*	
2-Fluorobiphenyl	*37*	*1*	*50.0*	*74 %*	*10-149*	*2F19010*	*EPA 8270D*	*07/02/12 11:36*	*DFM*	
2-Fluorophenol	*58*	*1*	*100*	*58 %*	*10-110*	*2F19010*	*EPA 8270D*	*07/02/12 11:36*	*DFM*	
Nitrobenzene-d5	*38*	*1*	*50.0*	*76 %*	*10-149*	*2F19010*	*EPA 8270D*	*07/02/12 11:36*	*DFM*	
Phenol-d5	*47*	*1*	*100*	*47 %*	*10-88*	*2F19010*	*EPA 8270D*	*07/02/12 11:36*	*DFM*	
Terphenyl-d14	*51*	*1*	*50.0*	*102 %*	*10-188*	*2F19010*	*EPA 8270D*	*07/02/12 11:36*	*DFM*	

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Description:	MW-17	**Lab Sample ID:**	C206148-13	**Received:**	06/15/12 15:01
Matrix:	Ground Water	**Sampled:**	06/15/12 08:15	**Work Order:**	C206148
Project:	Alexander MSWLF	**Sampled By:**	Jonathan Pfohl		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	**0.265**		ug/L	1	0.170	0.200	0.2	EPA 7470A	06/20/12 17:03	T1D	

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:**	C206148-14	**Received:**	06/15/12 15:01
Matrix:	Ground Water	**Sampled:**	06/14/12 14:05	**Work Order:**	C206148
Project:	Alexander MSWLF	**Sampled By:**	Jonathan Pfohl		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	06/20/12 16:22	T1D	

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Description: MW-18
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C206148-14
Sampled: 06/14/12 14:05
Sampled By: Jonathan Pfohl

Received: 06/15/12 15:01
Work Order: C206148

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	06/21/12 17:55	AJB	

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Description: MW-18
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C206148-14
Sampled: 06/14/12 14:05
Sampled By: Jonathan Pfohl

Received: 06/15/12 15:01
Work Order: C206148

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Methane [74-82-8]	0.000430	U	mg/L	1	0.000430	0.00100	NE	RSK-175	06/26/12 17:55	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-21	**Lab Sample ID:**	C206148-15	**Received:**	06/15/12 15:01
Matrix:	Ground Water	**Sampled:**	06/14/12 12:00	**Work Order:**	C206148
Project:	Alexander MSWLF	**Sampled By:**	Jonathan Pfohl		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	**0.233**		ug/L	1	0.170	0.200	0.2	EPA 7470A	06/20/12 16:24	T1D	

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:** C206148-16 | **Received:** 06/15/12 15:01

Matrix: Ground Water | **Sampled:** 06/13/12 15:30 | **Work Order:** C206148

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	06/26/12 13:35	MSZ	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	06/26/12 13:35	MSZ	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	06/26/12 13:35	MSZ	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	06/26/12 13:35	MSZ	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	06/26/12 13:35	MSZ	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	06/26/12 13:35	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	06/26/12 13:35	MSZ	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	06/26/12 13:35	MSZ	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	06/26/12 13:35	MSZ	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	06/26/12 13:35	MSZ	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	06/26/12 13:35	MSZ	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	06/26/12 13:35	MSZ	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	06/26/12 13:35	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	06/26/12 13:35	MSZ	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	06/26/12 13:35	MSZ	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	06/26/12 13:35	MSZ	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	06/26/12 13:35	MSZ	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	06/26/12 13:35	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	06/26/12 13:35	MSZ	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	06/26/12 13:35	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	06/26/12 13:35	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.86*	*1*	*1.00*	*86 %*	*44-134*	*2F20028*	*EPA 8081B*	*06/26/12 13:35*	*MSZ*	
Decachlorobiphenyl	*1.2*	*1*	*1.00*	*119 %*	*37-149*	*2F20028*	*EPA 8081B*	*06/26/12 13:35*	*MSZ*	

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Description: MW-24
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C206148-16
Sampled: 06/13/12 15:30
Sampled By: Jonathan Pfohl

Received: 06/15/12 15:01
Work Order: C206148

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Methane [74-82-8]	**0.000802**	J	mg/L	1	0.000430	0.00100	NE	RSK-175	06/26/12 18:11	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: C206148-17
Sampled: 06/13/12 08:05
Sampled By: Jonathan Pfohl

Received: 06/15/12 15:01
Work Order: C206148

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Methane [74-82-8]	**2.20**	D	mg/L	100	0.0430	0.100	NE	RSK-175	06/27/12 10:02	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
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C206148-18
Sampled: 06/13/12 14:45
Sampled By: Jonathan Pfohl

Received: 06/15/12 15:01
Work Order: C206148

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Methane [74-82-8]	**2.93**	D	mg/L	100	0.0430	0.100	NE	RSK-175	06/27/12 10:18	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
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C206148-19
Sampled: 06/13/12 14:00
Sampled By: Jonathan Pfohl

Received: 06/15/12 15:01
Work Order: C206148

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Methane [74-82-8]	**0.00184**		mg/L	1	0.000430	0.00100	NE	RSK-175	06/26/12 18:59	GMB	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: MW-31
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C206148-20
Sampled: 06/13/12 09:00
Sampled By: Jonathan Pfohl

Received: 06/15/12 15:01
Work Order: C206148

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	06/21/12 17:57	AJB	

www.encolabs.com

Description: MW-31
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C206148-20
Sampled: 06/13/12 09:00
Sampled By: Jonathan Pfohl

Received: 06/15/12 15:01
Work Order: C206148

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Methane [74-82-8]	**0.137**	D	mg/L	10	0.00430	0.0100	NE	RSK-175	06/27/12 10:34	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-32	**Lab Sample ID:**	C206148-21	**Received:**	06/15/12 15:01
Matrix:	Ground Water	**Sampled:**	06/12/12 15:00	**Work Order:**	C206148
Project:	Alexander MSWLF	**Sampled By:**	Jonathan Pfohl		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	06/20/12 16:26	T1D	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: MW-33
Matrix: Ground Water
Project: Alexander MSWLF

Lab Sample ID: C206148-22
Sampled: 06/13/12 11:10
Sampled By: Jonathan Pfohl

Received: 06/15/12 15:01
Work Order: C206148

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	07/03/12 14:29	CCB	Q

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:**	C206148-23	**Received:**	06/15/12 15:01
Matrix:	Ground Water	**Sampled:**	06/14/12 09:30	**Work Order:**	C206148
Project:	Alexander MSWLF	**Sampled By:**	Jonathan Pfohl		

Metals (Dissolved) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	06/20/12 16:28	T1D	

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 2F19010 - EPA 3510C_MS

Blank (2F19010-BLK1) Prepared: 06/19/2012 08:51 Analyzed: 07/02/2012 08:09

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 2F19010 - EPA 3510C_MS

Blank (2F19010-BLK1) Continued Prepared: 06/19/2012 08:51 Analyzed: 07/02/2012 08:09

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 2F19010 - EPA 3510C_MS

Blank (2F19010-BLK1) Continued Prepared: 06/19/2012 08:51 Analyzed: 07/02/2012 08:09

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	*95*			*ug/L*	*100*		*95*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*36*			*ug/L*	*50.0*		*72*	*10-149*			
Surrogate: 2-Fluorophenol	*56*			*ug/L*	*100*		*56*	*10-110*			
Surrogate: Nitrobenzene-d5	*38*			*ug/L*	*50.0*		*75*	*10-149*			
Surrogate: Phenol-d5	*44*			*ug/L*	*100*		*44*	*10-88*			
Surrogate: Terphenyl-d14	*49*			*ug/L*	*50.0*		*98*	*10-188*			

LCS (2F19010-BS1) Prepared: 06/19/2012 08:51 Analyzed: 07/02/2012 08:39

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	37		10	ug/L	50.0		74	40-109			
4-Chloro-3-methylphenol	43		10	ug/L	50.0		86	58-121			
4-Nitrophenol	27		10	ug/L	50.0		54	33-105			
Acenaphthene	40		10	ug/L	50.0		81	39-125			
N-Nitroso-di-n-propylamine	42		10	ug/L	50.0		85	48-126			
Phenol	24		10	ug/L	50.0		49	19-78			
Pyrene	42		10	ug/L	50.0		84	44-137			
Surrogate: 2,4,6-Tribromophenol	*91*			*ug/L*	*100*		*91*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*40*			*ug/L*	*50.0*		*80*	*10-149*			
Surrogate: 2-Fluorophenol	*54*			*ug/L*	*100*		*54*	*10-110*			
Surrogate: Nitrobenzene-d5	*38*			*ug/L*	*50.0*		*77*	*10-149*			
Surrogate: Phenol-d5	*42*			*ug/L*	*100*		*42*	*10-88*			
Surrogate: Terphenyl-d14	*43*			*ug/L*	*50.0*		*85*	*10-188*			

Matrix Spike (2F19010-MS1) Prepared: 06/19/2012 08:51 Analyzed: 07/02/2012 09:09

Source: C207201-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	36		10	ug/L	50.0	1.2 U	71	40-109			
4-Chloro-3-methylphenol	40		10	ug/L	50.0	1.5 U	81	58-121			
4-Nitrophenol	29		10	ug/L	50.0	2.0 U	57	33-105			
Acenaphthene	38		10	ug/L	50.0	1.4 U	75	39-125			
N-Nitroso-di-n-propylamine	41		10	ug/L	50.0	1.5 U	81	48-126			
Phenol	26		10	ug/L	50.0	1.4 U	52	19-78			
Pyrene	40		10	ug/L	50.0	2.1 U	79	44-137			
Surrogate: 2,4,6-Tribromophenol	*87*			*ug/L*	*100*		*87*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*38*			*ug/L*	*50.0*		*76*	*10-149*			
Surrogate: 2-Fluorophenol	*54*			*ug/L*	*100*		*54*	*10-110*			
Surrogate: Nitrobenzene-d5	*35*			*ug/L*	*50.0*		*70*	*10-149*			
Surrogate: Phenol-d5	*45*			*ug/L*	*100*		*45*	*10-88*			
Surrogate: Terphenyl-d14	*40*			*ug/L*	*50.0*		*80*	*10-188*			

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 2F19010 - EPA 3510C_MS

Matrix Spike Dup (2F19010-MSD1) Prepared: 06/19/2012 08:51 Analyzed: 07/02/2012 09:38

Source: C207201-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	31		10	ug/L	50.0	1.2 U	62	40-109	14	22	
4-Chloro-3-methylphenol	39		10	ug/L	50.0	1.5 U	78	58-121	4	22	
4-Nitrophenol	27		10	ug/L	50.0	2.0 U	54	33-105	5	27	
Acenaphthene	36		10	ug/L	50.0	1.4 U	71	39-125	5	25	
N-Nitroso-di-n-propylamine	37		10	ug/L	50.0	1.5 U	74	48-126	10	23	
Phenol	24		10	ug/L	50.0	1.4 U	47	19-78	10	18	
Pyrene	38		10	ug/L	50.0	2.1 U	75	44-137	5	24	
Surrogate: 2,4,6-Tribromophenol	*82*			*ug/L*	*100*		*82*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*36*			*ug/L*	*50.0*		*72*	*10-149*			
Surrogate: 2-Fluorophenol	*47*			*ug/L*	*100*		*47*	*10-110*			
Surrogate: Nitrobenzene-d5	*31*			*ug/L*	*50.0*		*62*	*10-149*			
Surrogate: Phenol-d5	*41*			*ug/L*	*100*		*41*	*10-88*			
Surrogate: Terphenyl-d14	*37*			*ug/L*	*50.0*		*74*	*10-188*			

Organochlorine Pesticides by GC - Quality Control

Batch 2F20028 - EPA 3510C

Blank (2F20028-BLK1) Prepared: 06/20/2012 18:30 Analyzed: 06/26/2012 11:22

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	*0.84*			*ug/L*	*1.00*		*84*	*44-134*			
Surrogate: Decachlorobiphenyl	*1.2*			*ug/L*	*1.00*		*120*	*37-149*			

LCS (2F20028-BS1) Prepared: 06/20/2012 18:30 Analyzed: 06/26/2012 11:35

QUALITY CONTROL

Organochlorine Pesticides by GC - Quality Control

Batch 2F20028 - EPA 3510C

LCS (2F20028-BS1) Continued Prepared: 06/20/2012 18:30 Analyzed: 06/26/2012 11:35

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	0.90		0.050	ug/L	1.00		90	37-139			
Dieldrin	1.0		0.050	ug/L	1.00		100	46-132			
Endrin	0.94		0.050	ug/L	1.00		94	43-133			
Surrogate: 2,4,5,6-TCMX	*0.82*			*ug/L*	*1.00*		*82*	*44-134*			
Surrogate: Decachlorobiphenyl	*1.2*			*ug/L*	*1.00*		*116*	*37-149*			

Matrix Spike (2F20028-MS1) Prepared: 06/20/2012 18:30 Analyzed: 06/26/2012 11:49

Source: C206148-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	0.88		0.050	ug/L	1.00	0.049 U	88	37-139			
Dieldrin	0.88		0.050	ug/L	1.00	0.045 U	88	46-132			
Endrin	0.90		0.050	ug/L	1.00	0.041 U	90	43-133			
Surrogate: 2,4,5,6-TCMX	*0.79*			*ug/L*	*1.00*		*79*	*44-134*			
Surrogate: Decachlorobiphenyl	*0.96*			*ug/L*	*1.00*		*96*	*37-149*			

Matrix Spike Dup (2F20028-MSD1) Prepared: 06/20/2012 18:30 Analyzed: 06/26/2012 12:02

Source: C206148-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	0.92		0.050	ug/L	1.00	0.049 U	92	37-139	5	26	
Dieldrin	0.92		0.050	ug/L	1.00	0.045 U	92	46-132	5	27	
Endrin	0.95		0.050	ug/L	1.00	0.041 U	95	43-133	5	26	
Surrogate: 2,4,5,6-TCMX	*0.86*			*ug/L*	*1.00*		*86*	*44-134*			
Surrogate: Decachlorobiphenyl	*0.93*			*ug/L*	*1.00*		*93*	*37-149*			

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 2F20007 - EPA 7470A

Blank (2F20007-BLK1) Prepared: 06/20/2012 09:11 Analyzed: 06/20/2012 15:52

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.170	U	0.200	ug/L							

LCS (2F20007-BS1) Prepared: 06/20/2012 09:11 Analyzed: 06/20/2012 15:54

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.35		0.200	ug/L	5.00		107	80-120			

Matrix Spike (2F20007-MS1) Prepared: 06/20/2012 09:11 Analyzed: 06/20/2012 16:02

Source: C206127-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.94		0.200	ug/L	5.00	0.621	106	75-125			

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 2F20007 - EPA 7470A

Matrix Spike Dup (2F20007-MSD1) Prepared: 06/20/2012 09:11 Analyzed: 06/20/2012 16:04

Source: C206127-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.89		0.200	ug/L	5.00	0.621	105	75-125	0.8	25	

Post Spike (2F20007-PS1) Prepared: 06/20/2012 09:11 Analyzed: 06/20/2012 16:06

Source: C206127-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.45		0.200	ug/L	5.00	0.621	97	75-125			

Metals (Dissolved) by EPA 6000/7000 Series Methods - Quality Control

Batch 2F20007 - EPA 7470A

Blank (2F20007-BLK1) Prepared: 06/20/2012 09:11 Analyzed: 06/20/2012 15:52

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.170	U	0.200	ug/L							

LCS (2F20007-BS1) Prepared: 06/20/2012 09:11 Analyzed: 06/20/2012 15:54

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.35		0.200	ug/L	5.00		107	80-120			

Matrix Spike (2F20007-MS1) Prepared: 06/20/2012 09:11 Analyzed: 06/20/2012 16:02

Source: C206127-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.94		0.200	ug/L	5.00	0.621	106	75-125			

Matrix Spike Dup (2F20007-MSD1) Prepared: 06/20/2012 09:11 Analyzed: 06/20/2012 16:04

Source: C206127-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.89		0.200	ug/L	5.00	0.621	105	75-125	0.8	25	

Post Spike (2F20007-PS1) Prepared: 06/20/2012 09:11 Analyzed: 06/20/2012 16:06

Source: C206127-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.45		0.200	ug/L	5.00	0.621	97	75-125			

Classical Chemistry Parameters - Quality Control

Batch 2F21003 - Same

Blank (2F21003-BLK1) Prepared: 06/21/2012 09:45 Analyzed: 06/21/2012 17:22

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 2F21003 - Same

Blank (2F21003-BLK1) Continued Prepared: 06/21/2012 09:45 Analyzed: 06/21/2012 17:22

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 (2F21003-BS1) Prepared: 06/21/2012 09:45 Analyzed: 06/21/2012 17:24

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.2		0.01	mg/L	0.150		101	85-115			

Matrix Spike (2F21003-MS1) Prepared: 06/21/2012 09:45 Analyzed: 06/21/2012 17:37

Source: C206214-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.2		0.01	mg/L	0.150	0.007	92	85-115			

Matrix Spike Dup (2F21003-MSD1) Prepared: 06/21/2012 09:45 Analyzed: 06/21/2012 17:39

Source: C206214-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.1		0.01	mg/L	0.150	0.007	84	85-115		20	QM-05

Batch 2G02033 - Same

Blank (2G02033-BLK1) Prepared: 07/02/2012 14:13 Analyzed: 07/03/2012 14:18

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 (2G02033-BS1) Prepared: 07/02/2012 14:13 Analyzed: 07/03/2012 14:20

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	150		10	ug/L	150		97	85-115			

Matrix Spike (2G02033-MS1) Prepared: 07/02/2012 14:13 Analyzed: 07/03/2012 14:22

Source: C206137-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	150		10	ug/L	150	4.9 U	102	85-115			

Matrix Spike Dup (2G02033-MSD1) Prepared: 07/02/2012 14:13 Analyzed: 07/03/2012 14:24

Source: C206137-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	160		10	ug/L	150	4.9 U	104	85-115	2	20	

QUALITY CONTROL

Dissolved Gases by GC - Quality Control

QUALITY CONTROL

Dissolved Gases by GC - Quality Control

Batch 2F26006 - Same

Blank (2F26006-BLK1) Prepared: 06/26/2012 09:31 Analyzed: 06/26/2012 10:02

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 (2F26006-BS1) Prepared: 06/26/2012 09:31 Analyzed: 06/26/2012 10:18

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Methane	514		0.00100	mg/L	500		103	74-120			

LCS Dup (2F26006-BSD1) Prepared: 06/26/2012 09:31 Analyzed: 06/26/2012 10:34

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Methane	547		0.00100	mg/L	500		109	74-120	6	18	

Duplicate (2F26006-DUP1) Prepared: 06/26/2012 09:31 Analyzed: 06/26/2012 13:54

Source: B203014-04RE1

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Methane	4.38	D	0.100	mg/L		4.49			2	30	

Duplicate (2F26006-DUP2) Prepared: 06/26/2012 09:31 Analyzed: 06/26/2012 20:51

Source: C206148-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Methane	11.5	D	0.500	mg/L		11.8			2	30	

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.
Q	Analysis performed outside of method - specified holding time.
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.
QV-01	The associated continuing calibration verification standard exhibited high bias; since the result is ND, the impact on data quality is minimal.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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Orlando, FL 32824
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4810 Executive Park Court, Suite 111
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(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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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)	
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: C206148

Requested Analyses / 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	8081B Appendix 2,8270D Appendix 2	8270D Appendix 2	Cyanide Total 9014	Hg	Hg/F (Lab Filter)	RSK175				Sample Comments
	MW-2	6/15/12	9:30	Grab	GW	1	X										
	MW-5	6/13/12	1:15		GW	4				X			X				
	MW-6	6/14/12	3:00		GW	5			X		X		X				
	~~MW-7~~				GW	~~1~~				~~X~~							
	MW-9	6/14/12	4:30		GW	2		X									
	MW-10	6/14/12	8:15		GW	1				X							
	MW-11	6/13/12	5:10		GW	4	X						X				
	MW-12 MS/MSD	6/14/12	3:50		GW	8	X						X				
	MW-12D	6/13/12	4:35		GW	5	X			X			X				
	MW-13	6/14/12	8:50		GW	1				X							
	MW-14	6/15/12	9:00		GW	1	X										
	MW-15	6/14/12	9:30		GW	3				X	X	X					
						<-- Total # of Containers											

Sample Kit Prepared By	Date/Time	Relinquished By: MESCO 3:00	Date/Time: 6/15/12	Received By: MEStamper	Date/Time: 6/15/12 1501
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: C-226 2.1°c C-312 2.6°c C-118 1.4°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

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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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 Turnaround Times

Note : Rush requests subject to acceptance by the facility

✓ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C206148

Requested Analyses / 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	8081B Appendix 2,8270D Appendix 2	8270D Appendix 2	Cyanide Total 9014	Hg	Hg/F	RSK175				Sample Comments
	MW-16	6/14/12	1:15	Grab	GW	3							X				
	MW-17	6/15/12	8:15		GW	2			X		X						
	MW-18	6/14/12	2:05		GW	7		X		X	X		X				Didn't Receive 21LA's
	MW-21	6/14/12	12:00		GW	1					X						
	MW-24	6/13/12	3:30		GW	4	X						X				
	MW-25	6/13/12	8:05		GW	3							X				
	MW-26	6/13/12	2:45		GW	3							X				
	MW-27	6/13/12	2:00		GW	3							X				
	MW-31	6/13/12	9:00		GW	4				X			X				
	MW-32	6/12/12	3:00		GW	1					X						
	MW-33	6/13/12	11:10		GW	1				X							

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By: MESCO	Date/Time: 3:00 6/15/12	Received By: MEStamper	Date/Time: 6/15/12 1501
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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(704)875-9092

June 29, 2012

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

RE: Project: ALEXANDER LF (SWS & UIC)
Pace Project No.: 92121374

Dear Mr. Pfohl:
Enclosed are the analytical results for sample(s) received by the laboratory on June 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.

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.: 92121374

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
South Carolina Drinking Water Cert. #: 99006003
Virginia Drinking Water Certification #: 00213
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DHH Drinking Water # LA 100031
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460144

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
Virginia Certification #: 00072
West Virginia Certification #: 356
Virgina/VELAP Certification #: 460147

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SAMPLE SUMMARY

Project: ALEXANDER LF (SWS & UIC)
Pace Project No.: 92121374

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92121374001	**MW-3**	Water	06/13/12 11:50	06/14/12 15:25
92121374002	**MW11**	Water	06/13/12 17:10	06/14/12 15:25
92121374003	**MW26**	Water	06/13/12 14:45	06/14/12 15:25
92121374004	**MW27**	Water	06/13/12 14:00	06/14/12 15:25
92121374005	**MW31**	Water	06/13/12 09:00	06/14/12 15:25

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SAMPLE ANALYTE COUNT

Project: ALEXANDER LF (SWS & UIC)
Pace Project No.: 92121374

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92121374001	**MW-3**	EPA 6010	JMW	15	PASI-A
		EPA 8260	KJM	52	PASI-C
		SM 2320B	AES	1	PASI-A
		SM 4500-S2D	AES	1	PASI-A
		SM 5210B	LMD	1	PASI-A
		EPA 300.0	SAE	1	PASI-A
		SM 4500-Cl-E	JDA	1	PASI-A
		SM 5310B	SAE	1	PASI-A
92121374002	**MW11**	EPA 6010	JMW	16	PASI-A
		EPA 8260	KJM	52	PASI-C
		SM 2320B	AES	1	PASI-A
		SM 4500-S2D	AES	1	PASI-A
		SM 5210B	SDH	1	PASI-A
		EPA 300.0	SAE	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 4500-Cl-E	JDA	1	PASI-A
		SM 5220D	SMW	1	PASI-A
		SM 5310B	SAE	1	PASI-A
92121374003	**MW26**	EPA 6010	JMW	16	PASI-A
		EPA 8260	KJM	52	PASI-C
		SM 2320B	AES	1	PASI-A
		SM 4500-S2D	AES	1	PASI-A
		SM 5210B	SDH	1	PASI-A
		EPA 300.0	SAE	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 4500-Cl-E	JDA	1	PASI-A
		SM 5220D	SMW	1	PASI-A
		SM 5310B	SAE	1	PASI-A
92121374004	**MW27**	EPA 6010	JMW	16	PASI-A
		EPA 8260	KJM	52	PASI-C
		SM 2320B	AES	1	PASI-A
		SM 4500-S2D	AES	1	PASI-A
		SM 5210B	SDH	1	PASI-A
		EPA 300.0	SAE	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 4500-Cl-E	JDA	1	PASI-A
		SM 5220D	SMW	1	PASI-A

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SAMPLE ANALYTE COUNT

Project: ALEXANDER LF (SWS & UIC)
Pace Project No.: 92121374

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 5310B	SAE	1	PASI-A
92121374005	**MW31**	EPA 6010	JMW	16	PASI-A
		EPA 8260	KJM	52	PASI-C
		SM 2320B	AES	1	PASI-A
		SM 4500-S2D	AES	1	PASI-A
		SM 5210B	LMD	1	PASI-A
		EPA 300.0	SAE	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 4500-Cl-E	JDA	1	PASI-A
		SM 5220D	SMW	1	PASI-A
		SM 5310B	SAE	1	PASI-A

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ANALYTICAL RESULTS

Project: ALEXANDER LF (SWS & UIC)
Pace Project No.: 92121374

Sample: MW-3 **Lab ID: 92121374001** Collected: 06/13/12 11:50 Received: 06/14/12 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	06/16/12 14:15	06/19/12 22:35	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 22:35	7440-38-2	
Barium	**38.4J**	ug/L	100	5.0	1	06/16/12 14:15	06/19/12 22:35	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	06/16/12 14:15	06/19/12 22:35	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	06/16/12 14:15	06/19/12 22:35	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 22:35	7440-47-3	
Cobalt	**16.4**	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 22:35	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 22:35	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 22:35	7439-92-1	
Nickel	**13.0J**	ug/L	50.0	5.0	1	06/16/12 14:15	06/19/12 22:35	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	06/16/12 14:15	06/19/12 22:35	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 22:35	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	06/16/12 14:15	06/19/12 22:35	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	06/16/12 14:15	06/19/12 22:35	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	06/16/12 14:15	06/19/12 22:35	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		06/22/12 15:12	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		06/22/12 15:12	107-13-1	
Benzene	**5.3**	ug/L	1.0	0.25	1		06/22/12 15:12	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		06/22/12 15:12	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		06/22/12 15:12	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		06/22/12 15:12	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		06/22/12 15:12	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		06/22/12 15:12	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		06/22/12 15:12	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		06/22/12 15:12	56-23-5	
Chlorobenzene	**0.84J**	ug/L	3.0	0.23	1		06/22/12 15:12	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		06/22/12 15:12	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		06/22/12 15:12	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		06/22/12 15:12	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		06/22/12 15:12	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		06/22/12 15:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		06/22/12 15:12	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		06/22/12 15:12	74-95-3	
1,2-Dichlorobenzene	**0.36J**	ug/L	5.0	0.30	1		06/22/12 15:12	95-50-1	
1,4-Dichlorobenzene	**4.5**	ug/L	1.0	0.33	1		06/22/12 15:12	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		06/22/12 15:12	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		06/22/12 15:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		06/22/12 15:12	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		06/22/12 15:12	75-35-4	
cis-1,2-Dichloroethene	**6.9**	ug/L	5.0	0.19	1		06/22/12 15:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		06/22/12 15:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		06/22/12 15:12	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		06/22/12 15:12	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		06/22/12 15:12	10061-01-5	

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ANALYTICAL RESULTS

Project: ALEXANDER LF (SWS & UIC)
Pace Project No.: 92121374

Sample: MW-3 **Lab ID: 92121374001** Collected: 06/13/12 11:50 Received: 06/14/12 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-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		06/22/12 15:12	10061-02-6	
Ethylbenzene	**1.4**	ug/L	1.0	0.30	1		06/22/12 15:12	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		06/22/12 15:12	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		06/22/12 15:12	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		06/22/12 15:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		06/22/12 15:12	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		06/22/12 15:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		06/22/12 15:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		06/22/12 15:12	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		06/22/12 15:12	127-18-4	
Toluene	**1.2**	ug/L	1.0	0.26	1		06/22/12 15:12	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		06/22/12 15:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		06/22/12 15:12	79-00-5	
Trichloroethene	**0.80J**	ug/L	1.0	0.47	1		06/22/12 15:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		06/22/12 15:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		06/22/12 15:12	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		06/22/12 15:12	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		06/22/12 15:12	75-01-4	
Xylene (Total)	**4.3J**	ug/L	5.0	0.66	1		06/22/12 15:12	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		06/22/12 15:12	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		06/22/12 15:12	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		06/22/12 15:12	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		06/22/12 15:12	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**156000**	ug/L	1000	1000	1		06/22/12 14:29		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		06/16/12 14:00	18496-25-8	
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	**5330**	ug/L	2000	2000	1	06/15/12 02:25	06/19/12 22:30		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**2620J**	ug/L	250000	2000	1		06/25/12 08:13	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**20900**	ug/L	1000	1000	1		06/26/12 12:53	16887-00-6	
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**14900**	ug/L	1000	1000	1		06/20/12 18:56	7440-44-0	

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ANALYTICAL RESULTS

Project: ALEXANDER LF (SWS & UIC)
Pace Project No.: 92121374

Sample: MW11 **Lab ID: 92121374002** Collected: 06/13/12 17:10 Received: 06/14/12 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	06/16/12 14:15	06/19/12 22:39	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 22:39	7440-38-2	
Barium	**75.1J**	ug/L	100	5.0	1	06/16/12 14:15	06/19/12 22:39	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	06/16/12 14:15	06/19/12 22:39	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	06/16/12 14:15	06/19/12 22:39	7440-43-9	
Chromium	**9.2J**	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 22:39	7440-47-3	
Cobalt	**47.4**	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 22:39	7440-48-4	
Copper	**5.3J**	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 22:39	7440-50-8	
Iron	**18000**	ug/L	300	50.0	1	06/16/12 14:15	06/19/12 22:39	7439-89-6	
Lead	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 22:39	7439-92-1	
Nickel	**10J**	ug/L	50.0	5.0	1	06/16/12 14:15	06/19/12 22:39	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	06/16/12 14:15	06/19/12 22:39	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 22:39	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	06/16/12 14:15	06/19/12 22:39	7440-28-0	
Vanadium	**5.3J**	ug/L	25.0	5.0	1	06/16/12 14:15	06/19/12 22:39	7440-62-2	
Zinc	**21.9**	ug/L	10.0	10.0	1	06/16/12 14:15	06/19/12 22:39	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		06/22/12 15:28	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		06/22/12 15:28	107-13-1	
Benzene	**3.4**	ug/L	1.0	0.25	1		06/22/12 15:28	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		06/22/12 15:28	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		06/22/12 15:28	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		06/22/12 15:28	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		06/22/12 15:28	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		06/22/12 15:28	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		06/22/12 15:28	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		06/22/12 15:28	56-23-5	
Chlorobenzene	**2.0J**	ug/L	3.0	0.23	1		06/22/12 15:28	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		06/22/12 15:28	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		06/22/12 15:28	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		06/22/12 15:28	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		06/22/12 15:28	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		06/22/12 15:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		06/22/12 15:28	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		06/22/12 15:28	74-95-3	
1,2-Dichlorobenzene	**0.34J**	ug/L	5.0	0.30	1		06/22/12 15:28	95-50-1	
1,4-Dichlorobenzene	**7.4**	ug/L	1.0	0.33	1		06/22/12 15:28	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		06/22/12 15:28	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		06/22/12 15:28	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		06/22/12 15:28	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		06/22/12 15:28	75-35-4	
cis-1,2-Dichloroethene	**22.7**	ug/L	5.0	0.19	1		06/22/12 15:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		06/22/12 15:28	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		06/22/12 15:28	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		06/22/12 15:28	142-28-9	

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ANALYTICAL RESULTS

Project: ALEXANDER LF (SWS & UIC)
Pace Project No.: 92121374

Sample: MW11 **Lab ID: 92121374002** Collected: 06/13/12 17:10 Received: 06/14/12 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								
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		06/22/12 15:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		06/22/12 15:28	10061-02-6	
Ethylbenzene	**0.34J**	ug/L	1.0	0.30	1		06/22/12 15:28	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		06/22/12 15:28	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		06/22/12 15:28	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		06/22/12 15:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		06/22/12 15:28	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		06/22/12 15:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		06/22/12 15:28	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		06/22/12 15:28	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		06/22/12 15:28	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		06/22/12 15:28	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		06/22/12 15:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		06/22/12 15:28	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		06/22/12 15:28	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		06/22/12 15:28	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		06/22/12 15:28	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		06/22/12 15:28	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		06/22/12 15:28	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		06/22/12 15:28	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		06/22/12 15:28	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		06/22/12 15:28	1868-53-7	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		06/22/12 15:28	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		06/22/12 15:28	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**197000**	ug/L	1000	1000	1		06/22/12 14:29		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		06/16/12 14:00	18496-25-8	
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	ND	ug/L	2000	2000	1	06/15/12 13:10	06/20/12 11:45		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**5060J**	ug/L	250000	2000	1		06/25/12 08:26	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	ug/L	10000	20.0	1		06/15/12 02:47		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**28600**	ug/L	1000	1000	1		06/26/12 12:53	16887-00-6	

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ANALYTICAL RESULTS

Project: ALEXANDER LF (SWS & UIC)
Pace Project No.: 92121374

Sample: MW11 **Lab ID: 92121374002** Collected: 06/13/12 17:10 Received: 06/14/12 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
5220D COD	Analytical Method: SM 5220D								
Chemical Oxygen Demand	**41000**	ug/L	25000	25000	1		06/25/12 11:10		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**16000**	ug/L	1000	1000	1		06/20/12 19:06	7440-44-0	

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ANALYTICAL RESULTS

Project: ALEXANDER LF (SWS & UIC)
Pace Project No.: 92121374

Sample: MW26 **Lab ID: 92121374003** Collected: 06/13/12 14:45 Received: 06/14/12 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	06/16/12 14:15	06/19/12 22:43	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 22:43	7440-38-2	
Barium	**43.2J**	ug/L	100	5.0	1	06/16/12 14:15	06/19/12 22:43	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	06/16/12 14:15	06/19/12 22:43	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	06/16/12 14:15	06/19/12 22:43	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 22:43	7440-47-3	
Cobalt	**51.1**	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 22:43	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 22:43	7440-50-8	
Iron	**13200**	ug/L	300	50.0	1	06/16/12 14:15	06/19/12 22:43	7439-89-6	
Lead	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 22:43	7439-92-1	
Nickel	**6.5J**	ug/L	50.0	5.0	1	06/16/12 14:15	06/19/12 22:43	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	06/16/12 14:15	06/19/12 22:43	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 22:43	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	06/16/12 14:15	06/19/12 22:43	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	06/16/12 14:15	06/19/12 22:43	7440-62-2	
Zinc	**14.9**	ug/L	10.0	10.0	1	06/16/12 14:15	06/19/12 22:43	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		06/22/12 15:44	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		06/22/12 15:44	107-13-1	
Benzene	**1.9**	ug/L	1.0	0.25	1		06/22/12 15:44	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		06/22/12 15:44	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		06/22/12 15:44	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		06/22/12 15:44	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		06/22/12 15:44	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		06/22/12 15:44	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		06/22/12 15:44	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		06/22/12 15:44	56-23-5	
Chlorobenzene	**1.2J**	ug/L	3.0	0.23	1		06/22/12 15:44	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		06/22/12 15:44	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		06/22/12 15:44	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		06/22/12 15:44	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		06/22/12 15:44	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		06/22/12 15:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		06/22/12 15:44	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		06/22/12 15:44	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		06/22/12 15:44	95-50-1	
1,4-Dichlorobenzene	**5.2**	ug/L	1.0	0.33	1		06/22/12 15:44	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		06/22/12 15:44	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		06/22/12 15:44	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		06/22/12 15:44	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		06/22/12 15:44	75-35-4	
cis-1,2-Dichloroethene	**18.1**	ug/L	5.0	0.19	1		06/22/12 15:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		06/22/12 15:44	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		06/22/12 15:44	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		06/22/12 15:44	142-28-9	

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ANALYTICAL RESULTS

Project: ALEXANDER LF (SWS & UIC)
Pace Project No.: 92121374

Sample: MW26 **Lab ID: 92121374003** Collected: 06/13/12 14:45 Received: 06/14/12 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								
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		06/22/12 15:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		06/22/12 15:44	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		06/22/12 15:44	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		06/22/12 15:44	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		06/22/12 15:44	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		06/22/12 15:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		06/22/12 15:44	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		06/22/12 15:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		06/22/12 15:44	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		06/22/12 15:44	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		06/22/12 15:44	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		06/22/12 15:44	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		06/22/12 15:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		06/22/12 15:44	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		06/22/12 15:44	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		06/22/12 15:44	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		06/22/12 15:44	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		06/22/12 15:44	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		06/22/12 15:44	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		06/22/12 15:44	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		06/22/12 15:44	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		06/22/12 15:44	1868-53-7	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		06/22/12 15:44	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		06/22/12 15:44	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**374000**	ug/L	1000	1000	1		06/22/12 14:29		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		06/16/12 14:00	18496-25-8	
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	ND	ug/L	2000	2000	1	06/15/12 13:10	06/20/12 11:45		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**4300J**	ug/L	250000	2000	1		06/25/12 09:07	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	ug/L	10000	20.0	1		06/15/12 02:21		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**18400**	ug/L	1000	1000	1		06/26/12 12:54	16887-00-6	

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ANALYTICAL RESULTS

Project: ALEXANDER LF (SWS & UIC)
Pace Project No.: 92121374

Sample: MW26 **Lab ID: 92121374003** Collected: 06/13/12 14:45 Received: 06/14/12 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
5220D COD	Analytical Method: SM 5220D								
Chemical Oxygen Demand	**33000**	ug/L	25000	25000	1		06/25/12 11:10		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**14700**	ug/L	1000	1000	1		06/20/12 19:16	7440-44-0	

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ANALYTICAL RESULTS

Project: ALEXANDER LF (SWS & UIC)
Pace Project No.: 92121374

Sample: MW27 **Lab ID: 92121374004** Collected: 06/13/12 14:00 Received: 06/14/12 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	06/16/12 14:15	06/19/12 22:48	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 22:48	7440-38-2	
Barium	**74.1J**	ug/L	100	5.0	1	06/16/12 14:15	06/19/12 22:48	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	06/16/12 14:15	06/19/12 22:48	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	06/16/12 14:15	06/19/12 22:48	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 22:48	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 22:48	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 22:48	7440-50-8	
Iron	**1380**	ug/L	300	50.0	1	06/16/12 14:15	06/19/12 22:48	7439-89-6	
Lead	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 22:48	7439-92-1	
Nickel	**12.5J**	ug/L	50.0	5.0	1	06/16/12 14:15	06/19/12 22:48	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	06/16/12 14:15	06/19/12 22:48	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 22:48	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	06/16/12 14:15	06/19/12 22:48	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	06/16/12 14:15	06/19/12 22:48	7440-62-2	
Zinc	**10.0**	ug/L	10.0	10.0	1	06/16/12 14:15	06/19/12 22:48	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		06/22/12 15:59	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		06/22/12 15:59	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		06/22/12 15:59	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		06/22/12 15:59	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		06/22/12 15:59	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		06/22/12 15:59	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		06/22/12 15:59	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		06/22/12 15:59	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		06/22/12 15:59	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		06/22/12 15:59	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		06/22/12 15:59	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		06/22/12 15:59	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		06/22/12 15:59	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		06/22/12 15:59	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		06/22/12 15:59	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		06/22/12 15:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		06/22/12 15:59	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		06/22/12 15:59	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		06/22/12 15:59	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		06/22/12 15:59	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		06/22/12 15:59	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		06/22/12 15:59	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		06/22/12 15:59	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		06/22/12 15:59	75-35-4	
cis-1,2-Dichloroethene	**20.9**	ug/L	5.0	0.19	1		06/22/12 15:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		06/22/12 15:59	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		06/22/12 15:59	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		06/22/12 15:59	142-28-9	

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ANALYTICAL RESULTS

Project: ALEXANDER LF (SWS & UIC)
Pace Project No.: 92121374

Sample: MW27 **Lab ID: 92121374004** Collected: 06/13/12 14:00 Received: 06/14/12 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								
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		06/22/12 15:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		06/22/12 15:59	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		06/22/12 15:59	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		06/22/12 15:59	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		06/22/12 15:59	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		06/22/12 15:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		06/22/12 15:59	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		06/22/12 15:59	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		06/22/12 15:59	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		06/22/12 15:59	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		06/22/12 15:59	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		06/22/12 15:59	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		06/22/12 15:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		06/22/12 15:59	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		06/22/12 15:59	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		06/22/12 15:59	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		06/22/12 15:59	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		06/22/12 15:59	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		06/22/12 15:59	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		06/22/12 15:59	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		06/22/12 15:59	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		06/22/12 15:59	1868-53-7	
1,2-Dichloroethane-d4 (S)	111	%	70-130		1		06/22/12 15:59	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		06/22/12 15:59	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**110000**	ug/L	1000	1000	1		06/22/12 14:29		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		06/16/12 14:00	18496-25-8	
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	ND	ug/L	2000	2000	1	06/15/12 13:10	06/20/12 11:45		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**15400J**	ug/L	250000	2000	1		06/25/12 09:20	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**358J**	ug/L	10000	20.0	1		06/15/12 02:20		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**20700**	ug/L	1000	1000	1		06/26/12 12:54	16887-00-6	

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ANALYTICAL RESULTS

Project: ALEXANDER LF (SWS & UIC)
Pace Project No.: 92121374

Sample: MW27 **Lab ID: 92121374004** Collected: 06/13/12 14:00 Received: 06/14/12 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
5220D COD	Analytical Method: SM 5220D								
Chemical Oxygen Demand	ND	ug/L	25000	25000	1		06/25/12 11:10		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**3820**	ug/L	1000	1000	1		06/20/12 19:28	7440-44-0	

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ANALYTICAL RESULTS

Project: ALEXANDER LF (SWS & UIC)
Pace Project No.: 92121374

Sample: MW31 **Lab ID: 92121374005** Collected: 06/13/12 09:00 Received: 06/14/12 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	06/16/12 14:15	06/19/12 22:52	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 22:52	7440-38-2	
Barium	**18.9J**	ug/L	100	5.0	1	06/16/12 14:15	06/19/12 22:52	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	06/16/12 14:15	06/19/12 22:52	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	06/16/12 14:15	06/19/12 22:52	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 22:52	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 22:52	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 22:52	7440-50-8	
Iron	**551**	ug/L	300	50.0	1	06/16/12 14:15	06/19/12 22:52	7439-89-6	
Lead	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 22:52	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	06/16/12 14:15	06/19/12 22:52	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	06/16/12 14:15	06/19/12 22:52	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	06/16/12 14:15	06/19/12 22:52	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	06/16/12 14:15	06/19/12 22:52	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	06/16/12 14:15	06/19/12 22:52	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	06/16/12 14:15	06/19/12 22:52	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		06/22/12 16:15	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		06/22/12 16:15	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		06/22/12 16:15	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		06/22/12 16:15	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		06/22/12 16:15	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		06/22/12 16:15	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		06/22/12 16:15	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		06/22/12 16:15	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		06/22/12 16:15	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		06/22/12 16:15	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		06/22/12 16:15	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		06/22/12 16:15	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		06/22/12 16:15	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		06/22/12 16:15	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		06/22/12 16:15	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		06/22/12 16:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		06/22/12 16:15	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		06/22/12 16:15	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		06/22/12 16:15	95-50-1	
1,4-Dichlorobenzene	**0.82J**	ug/L	1.0	0.33	1		06/22/12 16:15	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		06/22/12 16:15	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		06/22/12 16:15	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		06/22/12 16:15	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		06/22/12 16:15	75-35-4	
cis-1,2-Dichloroethene	**2.3J**	ug/L	5.0	0.19	1		06/22/12 16:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		06/22/12 16:15	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		06/22/12 16:15	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		06/22/12 16:15	142-28-9	

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ANALYTICAL RESULTS

Project: ALEXANDER LF (SWS & UIC)
Pace Project No.: 92121374

Sample: MW31 **Lab ID: 92121374005** Collected: 06/13/12 09:00 Received: 06/14/12 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								
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		06/22/12 16:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		06/22/12 16:15	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		06/22/12 16:15	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		06/22/12 16:15	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		06/22/12 16:15	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		06/22/12 16:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		06/22/12 16:15	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		06/22/12 16:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		06/22/12 16:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		06/22/12 16:15	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		06/22/12 16:15	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		06/22/12 16:15	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		06/22/12 16:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		06/22/12 16:15	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		06/22/12 16:15	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		06/22/12 16:15	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		06/22/12 16:15	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		06/22/12 16:15	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		06/22/12 16:15	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		06/22/12 16:15	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		06/22/12 16:15	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		06/22/12 16:15	1868-53-7	
1,2-Dichloroethane-d4 (S)	114	%	70-130		1		06/22/12 16:15	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		06/22/12 16:15	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**3120**	ug/L	1000	1000	1		06/22/12 14:29		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		06/16/12 14:00	18496-25-8	
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	ND	ug/L	2000	2000	1	06/15/12 02:25	06/19/12 22:30		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	ND	ug/L	250000	2000	1		06/25/12 09:34	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**494J**	ug/L	10000	20.0	1		06/15/12 01:53		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**4060**	ug/L	1000	1000	1		06/26/12 12:55	16887-00-6	

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ANALYTICAL RESULTS

Project: ALEXANDER LF (SWS & UIC)
Pace Project No.: 92121374

Sample: MW31 **Lab ID: 92121374005** Collected: 06/13/12 09:00 Received: 06/14/12 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
5220D COD	Analytical Method: SM 5220D								
Chemical Oxygen Demand	ND	ug/L	25000	25000	1		06/25/12 11:10		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**7890**	ug/L	1000	1000	1		06/20/12 19:38	7440-44-0	

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QUALITY CONTROL DATA

Project: ALEXANDER LF (SWS & UIC)
Pace Project No.: 92121374

QC Batch: MPRP/10834 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 92121374001, 92121374002, 92121374003, 92121374004, 92121374005

METHOD BLANK: 780517 Matrix: Water
Associated Lab Samples: 92121374001, 92121374002, 92121374003, 92121374004, 92121374005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	6.0	06/19/12 21:21	
Arsenic	ug/L	ND	10.0	06/19/12 21:21	
Barium	ug/L	ND	100	06/19/12 21:21	
Beryllium	ug/L	ND	1.0	06/19/12 21:21	
Cadmium	ug/L	ND	1.0	06/19/12 21:21	
Chromium	ug/L	ND	10.0	06/19/12 21:21	
Cobalt	ug/L	ND	10.0	06/19/12 21:21	
Copper	ug/L	ND	10.0	06/19/12 21:21	
Iron	ug/L	ND	300	06/19/12 21:21	
Lead	ug/L	ND	10.0	06/19/12 21:21	
Nickel	ug/L	ND	50.0	06/19/12 21:21	
Selenium	ug/L	ND	10.0	06/19/12 21:21	
Silver	ug/L	ND	10.0	06/19/12 21:21	
Thallium	ug/L	ND	5.5	06/19/12 21:21	
Vanadium	ug/L	ND	25.0	06/19/12 21:21	
Zinc	ug/L	ND	10.0	06/19/12 21:21	

LABORATORY CONTROL SAMPLE: 780518

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	492	98	80-120	
Arsenic	ug/L	500	503	101	80-120	
Barium	ug/L	500	488	98	80-120	
Beryllium	ug/L	500	516	103	80-120	
Cadmium	ug/L	500	510	102	80-120	
Chromium	ug/L	500	517	103	80-120	
Cobalt	ug/L	500	500	100	80-120	
Copper	ug/L	500	491	98	80-120	
Iron	ug/L	5000	5020	100	80-120	
Lead	ug/L	500	503	101	80-120	
Nickel	ug/L	500	501	100	80-120	
Selenium	ug/L	500	494	99	80-120	
Silver	ug/L	250	251	100	80-120	
Thallium	ug/L	500	480	96	80-120	
Vanadium	ug/L	500	503	101	80-120	
Zinc	ug/L	500	504	101	80-120	

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QUALITY CONTROL DATA

Project: ALEXANDER LF (SWS & UIC)
Pace Project No.: 92121374

MATRIX SPIKE SAMPLE: 780519

Parameter	Units	92121335002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	497	99	75-125	
Arsenic	ug/L	80.0	500	595	103	75-125	
Barium	ug/L	46.0	500	524	96	75-125	
Beryllium	ug/L	ND	500	513	103	75-125	
Cadmium	ug/L	ND	500	498	100	75-125	
Chromium	ug/L	ND	500	509	102	75-125	
Cobalt	ug/L	ND	500	484	97	75-125	
Copper	ug/L	ND	500	495	99	75-125	
Iron	ug/L	16900	5000	21300	89	75-125	
Lead	ug/L	ND	500	488	98	75-125	
Nickel	ug/L	ND	500	488	98	75-125	
Selenium	ug/L	ND	500	496	99	75-125	
Silver	ug/L	ND	250	251	100	75-125	
Thallium	ug/L	ND	500	461	92	75-125	
Vanadium	ug/L	ND	500	503	100	75-125	
Zinc	ug/L	ND	500	499	100	75-125	

SAMPLE DUPLICATE: 780520

Parameter	Units	92121335003 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	ND	ND		25	
Arsenic	ug/L	ND	ND		25	
Barium	ug/L	20.4	20.7J	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	
Iron	ug/L	3040	3110	2	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	
Vanadium	ug/L	ND	ND		25	
Zinc	ug/L	ND	ND		25	

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QUALITY CONTROL DATA

Project: ALEXANDER LF (SWS & UIC)
Pace Project No.: 92121374

QC Batch: MSV/19533 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 92121374001, 92121374002, 92121374003, 92121374004, 92121374005

METHOD BLANK: 783755 Matrix: Water
Associated Lab Samples: 92121374001, 92121374002, 92121374003, 92121374004, 92121374005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	06/22/12 12:52	
1,1,1-Trichloroethane	ug/L	ND	1.0	06/22/12 12:52	
1,1,2,2-Tetrachloroethane	ug/L	ND	3.0	06/22/12 12:52	
1,1,2-Trichloroethane	ug/L	ND	1.0	06/22/12 12:52	
1,1-Dichloroethane	ug/L	ND	5.0	06/22/12 12:52	
1,1-Dichloroethene	ug/L	ND	5.0	06/22/12 12:52	
1,2,3-Trichloropropane	ug/L	ND	1.0	06/22/12 12:52	
1,2-Dibromo-3-chloropropane	ug/L	ND	13.0	06/22/12 12:52	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	06/22/12 12:52	
1,2-Dichlorobenzene	ug/L	ND	5.0	06/22/12 12:52	
1,2-Dichloroethane	ug/L	ND	1.0	06/22/12 12:52	
1,2-Dichloropropane	ug/L	ND	1.0	06/22/12 12:52	
1,3-Dichloropropane	ug/L	ND	1.0	06/22/12 12:52	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/22/12 12:52	
2-Butanone (MEK)	ug/L	ND	100	06/22/12 12:52	
2-Hexanone	ug/L	ND	50.0	06/22/12 12:52	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	06/22/12 12:52	
Acetone	ug/L	ND	100	06/22/12 12:52	
Acrylonitrile	ug/L	ND	200	06/22/12 12:52	
Benzene	ug/L	ND	1.0	06/22/12 12:52	
Bromochloromethane	ug/L	ND	3.0	06/22/12 12:52	
Bromodichloromethane	ug/L	ND	1.0	06/22/12 12:52	
Bromoform	ug/L	ND	3.0	06/22/12 12:52	
Bromomethane	ug/L	ND	10.0	06/22/12 12:52	
Carbon disulfide	ug/L	ND	100	06/22/12 12:52	
Carbon tetrachloride	ug/L	ND	1.0	06/22/12 12:52	
Chlorobenzene	ug/L	ND	3.0	06/22/12 12:52	
Chloroethane	ug/L	ND	10.0	06/22/12 12:52	
Chloroform	ug/L	ND	5.0	06/22/12 12:52	
Chloromethane	ug/L	ND	1.0	06/22/12 12:52	
cis-1,2-Dichloroethene	ug/L	ND	5.0	06/22/12 12:52	
cis-1,3-Dichloropropene	ug/L	ND	1.0	06/22/12 12:52	
Dibromochloromethane	ug/L	ND	3.0	06/22/12 12:52	
Dibromomethane	ug/L	ND	10.0	06/22/12 12:52	
Ethylbenzene	ug/L	ND	1.0	06/22/12 12:52	
Iodomethane	ug/L	ND	10.0	06/22/12 12:52	
Methylene Chloride	ug/L	ND	1.0	06/22/12 12:52	
Styrene	ug/L	ND	1.0	06/22/12 12:52	
Tetrachloroethene	ug/L	ND	1.0	06/22/12 12:52	
Toluene	ug/L	ND	1.0	06/22/12 12:52	
trans-1,2-Dichloroethene	ug/L	ND	5.0	06/22/12 12:52	
trans-1,3-Dichloropropene	ug/L	ND	1.0	06/22/12 12:52	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	06/22/12 12:52	

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QUALITY CONTROL DATA

Project: ALEXANDER LF (SWS & UIC)
Pace Project No.: 92121374

METHOD BLANK: 783755 Matrix: Water

Associated Lab Samples: 92121374001, 92121374002, 92121374003, 92121374004, 92121374005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichloroethene	ug/L	ND	1.0	06/22/12 12:52	
Trichlorofluoromethane	ug/L	ND	1.0	06/22/12 12:52	
Vinyl acetate	ug/L	ND	50.0	06/22/12 12:52	
Vinyl chloride	ug/L	ND	1.0	06/22/12 12:52	
Xylene (Total)	ug/L	ND	5.0	06/22/12 12:52	
1,2-Dichloroethane-d4 (S)	%	113	70-130	06/22/12 12:52	
4-Bromofluorobenzene (S)	%	101	70-130	06/22/12 12:52	
Dibromofluoromethane (S)	%	107	70-130	06/22/12 12:52	
Toluene-d8 (S)	%	100	70-130	06/22/12 12:52	

LABORATORY CONTROL SAMPLE: 783756

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	46.1	92	70-130	
1,1,1-Trichloroethane	ug/L	50	42.2	84	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	44.6	89	70-130	
1,1,2-Trichloroethane	ug/L	50	47.8	96	70-130	
1,1-Dichloroethane	ug/L	50	42.5	85	70-130	
1,1-Dichloroethene	ug/L	50	44.1	88	70-132	
1,2,3-Trichloropropane	ug/L	50	46.5	93	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	46.8	94	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	47.4	95	70-130	
1,2-Dichlorobenzene	ug/L	50	43.9	88	70-130	
1,2-Dichloroethane	ug/L	50	44.1	88	70-130	
1,2-Dichloropropane	ug/L	50	44.0	88	70-130	
1,3-Dichloropropane	ug/L	50	45.1	90	70-130	
1,4-Dichlorobenzene	ug/L	50	43.1	86	70-130	
2-Butanone (MEK)	ug/L	100	98.1J	98	70-145	
2-Hexanone	ug/L	100	97.8	98	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	100	98.6J	99	70-140	
Acetone	ug/L	100	115	115	50-175	
Acrylonitrile	ug/L	250	247	99	70-143	
Benzene	ug/L	50	44.6	89	70-130	
Bromochloromethane	ug/L	50	46.8	94	70-130	
Bromodichloromethane	ug/L	50	45.1	90	70-130	
Bromoform	ug/L	50	46.7	93	70-130	
Bromomethane	ug/L	50	38.4	77	54-130	
Carbon disulfide	ug/L	50	43.4J	87	70-131	
Carbon tetrachloride	ug/L	50	46.0	92	70-132	
Chlorobenzene	ug/L	50	44.7	89	70-130	
Chloroethane	ug/L	50	53.6	107	64-134	
Chloroform	ug/L	50	51.4	103	70-130	
Chloromethane	ug/L	50	40.5	81	64-130	
cis-1,2-Dichloroethene	ug/L	50	44.8	90	70-131	
cis-1,3-Dichloropropene	ug/L	50	44.4	89	70-130	

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QUALITY CONTROL DATA

Project: ALEXANDER LF (SWS & UIC)
Pace Project No.: 92121374

LABORATORY CONTROL SAMPLE: 783756

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromochloromethane	ug/L	50	47.9	96	70-130	
Dibromomethane	ug/L	50	43.9	88	70-131	
Ethylbenzene	ug/L	50	44.7	89	70-130	
Iodomethane	ug/L	100	79.8	80	49-180	
Methylene Chloride	ug/L	50	50.7	101	63-130	
Styrene	ug/L	50	45.3	91	70-130	
Tetrachloroethene	ug/L	50	45.8	92	70-130	
Toluene	ug/L	50	43.8	88	70-130	
trans-1,2-Dichloroethene	ug/L	50	43.4	87	70-130	
trans-1,3-Dichloropropene	ug/L	50	46.6	93	70-132	
trans-1,4-Dichloro-2-butene	ug/L	50	60.3J	121	70-141	
Trichloroethene	ug/L	50	44.7	89	70-130	
Trichlorofluoromethane	ug/L	50	46.3	93	62-133	
Vinyl acetate	ug/L	100	96.3	96	66-157	
Vinyl chloride	ug/L	50	38.5	77	69-130	
Xylene (Total)	ug/L	150	132	88	70-130	
1,2-Dichloroethane-d4 (S)	%			104	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			98	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 783757 783758

Parameter	Units	92121392014 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	51.0	50.1	102	100	70-166	2	30	
Benzene	ug/L	ND	50	50	44.4	43.9	89	88	70-148	1	30	
Chlorobenzene	ug/L	ND	50	50	49.4	50.6	99	101	70-146	2	30	
Toluene	ug/L	ND	50	50	51.1	51.1	102	102	70-155	0	30	
Trichloroethene	ug/L	ND	50	50	52.1	50.4	104	101	69-151	3	30	
1,2-Dichloroethane-d4 (S)	%						107	106	70-130			
4-Bromofluorobenzene (S)	%						100	97	70-130			
Dibromofluoromethane (S)	%						103	97	70-130			
Toluene-d8 (S)	%						102	98	70-130			

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QUALITY CONTROL DATA

Project: ALEXANDER LF (SWS & UIC)
Pace Project No.: 92121374

QC Batch: WET/21347 — Analysis Method: SM 2320B
QC Batch Method: SM 2320B — Analysis Description: 2320B Alkalinity
Associated Lab Samples: 92121374001, 92121374002, 92121374003, 92121374004, 92121374005

METHOD BLANK: 783881 — Matrix: Water
Associated Lab Samples: 92121374001, 92121374002, 92121374003, 92121374004, 92121374005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	ug/L	ND	1000	06/22/12 14:29	

LABORATORY CONTROL SAMPLE: 783882

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	ug/L	50000	46600	93	90-110	

MATRIX SPIKE SAMPLE: 783884

Parameter	Units	92121875007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	ug/L	1.9 mg/L	50000	48700	94		

MATRIX SPIKE SAMPLE: 783886

Parameter	Units	92121374005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	ug/L	3120	50000	51100	96		

SAMPLE DUPLICATE: 783883

Parameter	Units	92121875007 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	ug/L	1.9 mg/L	1750	10	20	

SAMPLE DUPLICATE: 783885

Parameter	Units	92121374005 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	ug/L	3120	3020	3	20	

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QUALITY CONTROL DATA

Project: ALEXANDER LF (SWS & UIC)
Pace Project No.: 92121374

QC Batch: WET/21270 Analysis Method: SM 4500-S2D
QC Batch Method: SM 4500-S2D Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 92121374001, 92121374002, 92121374003, 92121374004, 92121374005

METHOD BLANK: 780469 Matrix: Water
Associated Lab Samples: 92121374001, 92121374002, 92121374003, 92121374004, 92121374005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	ug/L	ND	1000	06/16/12 14:00	

LABORATORY CONTROL SAMPLE: 780470

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	ug/L	500	489J	98	90-110	

MATRIX SPIKE SAMPLE: 780471

Parameter	Units	92121308007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	ug/L	ND	500	277J	51	75-125	M1

SAMPLE DUPLICATE: 780472

Parameter	Units	92121308007 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.: 92121374

QC Batch: WET/21243 — Analysis Method: SM 5210B
QC Batch Method: SM 5210B — Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 92121374001, 92121374005

METHOD BLANK: 779529 — Matrix: Water
Associated Lab Samples: 92121374001, 92121374005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	ug/L	ND	2000	06/19/12 22:30	

LABORATORY CONTROL SAMPLE: 779530

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	ug/L	198000	173000	87	84-115	

SAMPLE DUPLICATE: 779531

Parameter	Units	92121374005 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: ALEXANDER LF (SWS & UIC)
Pace Project No.: 92121374

QC Batch: WET/21251 Analysis Method: SM 5210B
QC Batch Method: SM 5210B Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 92121374002, 92121374003, 92121374004

METHOD BLANK: 779689 Matrix: Water
Associated Lab Samples: 92121374002, 92121374003, 92121374004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	ug/L	ND	2000	06/20/12 11:45	

LABORATORY CONTROL SAMPLE: 779690

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	ug/L	198000	182000	92	84-115	

SAMPLE DUPLICATE: 779691

Parameter	Units	92121374004 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: ALEXANDER LF (SWS & UIC)
Pace Project No.: 92121374

QC Batch: WETA/12388 — Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 — Analysis Description: 300.0 IC Anions
Associated Lab Samples: 92121374001, 92121374002, 92121374003, 92121374004, 92121374005

METHOD BLANK: 781128 — Matrix: Water
Associated Lab Samples: 92121374001, 92121374002, 92121374003, 92121374004, 92121374005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	ug/L	ND	250000	06/25/12 04:49	

LABORATORY CONTROL SAMPLE: 781129

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	20000	19200J	96	90-110	

MATRIX SPIKE SAMPLE: 781130

Parameter	Units	92121231013 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	31.1 mg/L	20000	52800J	108	90-110	

MATRIX SPIKE SAMPLE: 781132

Parameter	Units	92121335011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	6.5 mg/L	20000	26800J	101	90-110	

SAMPLE DUPLICATE: 781131

Parameter	Units	92121231013 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfate	ug/L	31.1 mg/L	31300J	0	20	

SAMPLE DUPLICATE: 781133

Parameter	Units	92121335011 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfate	ug/L	6.5 mg/L	4760J	31	20	D6

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QUALITY CONTROL DATA

Project: ALEXANDER LF (SWS & UIC)
Pace Project No.: 92121374

QC Batch: WETA/12348 — Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 — Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 92121374003, 92121374004, 92121374005

METHOD BLANK: 779517 — Matrix: Water
Associated Lab Samples: 92121374003, 92121374004, 92121374005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	ug/L	ND	10000	06/15/12 01:45	

LABORATORY CONTROL SAMPLE: 779518

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	ug/L	2500	2360J	94	90-110	

MATRIX SPIKE SAMPLE: 779519

Parameter	Units	92121375005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	ug/L	781J	2500	3010J	89	90-110	M1

MATRIX SPIKE SAMPLE: 779521

Parameter	Units	92121374005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	ug/L	494J	2500	2650J	86	90-110	M1

SAMPLE DUPLICATE: 779520

Parameter	Units	92121375005 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	ug/L	781J	769J	2	20	

SAMPLE DUPLICATE: 779522

Parameter	Units	92121374005 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	ug/L	494J	498J	1	20	

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QUALITY CONTROL DATA

Project: ALEXANDER LF (SWS & UIC)
Pace Project No.: 92121374

QC Batch: WETA/12349
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 92121374002

METHOD BLANK: 779523
Matrix: Water
Associated Lab Samples: 92121374002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	ug/L	ND	10000	06/15/12 02:25	

LABORATORY CONTROL SAMPLE: 779524

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	ug/L	2500	2370J	95	90-110	

MATRIX SPIKE SAMPLE: 779525

Parameter	Units	92121394008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	ug/L	ND	2500	2270J	91	90-110	

MATRIX SPIKE SAMPLE: 779527

Parameter	Units	92121392005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	ug/L	251	2500	2530J	91	90-110	

SAMPLE DUPLICATE: 779526

Parameter	Units	92121394008 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	ug/L	ND	ND		20	

SAMPLE DUPLICATE: 779528

Parameter	Units	92121392005 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	ug/L	251	278J	10	20	

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QUALITY CONTROL DATA

Project: ALEXANDER LF (SWS & UIC)
Pace Project No.: 92121374

QC Batch: WETA/12456 Analysis Method: SM 4500-Cl-E
QC Batch Method: SM 4500-Cl-E Analysis Description: 4500 Chloride
Associated Lab Samples: 92121374001, 92121374002, 92121374003, 92121374004, 92121374005

METHOD BLANK: 785051 Matrix: Water
Associated Lab Samples: 92121374001, 92121374002, 92121374003, 92121374004, 92121374005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	ug/L	ND	1000	06/26/12 12:39	

LABORATORY CONTROL SAMPLE: 785052

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	ug/L	20000	21000	105	90-110	

MATRIX SPIKE SAMPLE: 785053

Parameter	Units	92121682009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	ug/L	20300	20000	39000	93	75-125	

SAMPLE DUPLICATE: 785054

Parameter	Units	92121682010 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	ug/L	20500	21000	2	20	

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QUALITY CONTROL DATA

Project: ALEXANDER LF (SWS & UIC)
Pace Project No.: 92121374

QC Batch: WETA/12450 — Analysis Method: SM 5220D
QC Batch Method: SM 5220D — Analysis Description: 5220D COD
Associated Lab Samples: 92121374002, 92121374003, 92121374004, 92121374005

METHOD BLANK: 784570 — Matrix: Water
Associated Lab Samples: 92121374002, 92121374003, 92121374004, 92121374005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	ug/L	ND	25000	06/25/12 11:10	

LABORATORY CONTROL SAMPLE: 784571

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	ug/L	750000	799000	107	90-110	

MATRIX SPIKE SAMPLE: 784578

Parameter	Units	92121772003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	ug/L	4460 mg/L	3000000	7320000	95	75-125	

MATRIX SPIKE SAMPLE: 784580

Parameter	Units	92121772005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	ug/L	16600 mg/L	30000000	49600000	110	75-125	

SAMPLE DUPLICATE: 784579

Parameter	Units	92121772004 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	ug/L	1530 mg/L	1460000	5	20	

SAMPLE DUPLICATE: 784642

Parameter	Units	92121128001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	ug/L	763 mg/L	814000	6	20	

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QUALITY CONTROL DATA

Project: ALEXANDER LF (SWS & UIC)
Pace Project No.: 92121374

QC Batch: WETA/12389 Analysis Method: SM 5310B
QC Batch Method: SM 5310B Analysis Description: 5310B TOC
Associated Lab Samples: 92121374001, 92121374002, 92121374003, 92121374004, 92121374005

METHOD BLANK: 781138 Matrix: Water
Associated Lab Samples: 92121374001, 92121374002, 92121374003, 92121374004, 92121374005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	ug/L	ND	1000	06/20/12 15:03	

LABORATORY CONTROL SAMPLE: 781139

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	ug/L	25000	24000	96	90-110	

MATRIX SPIKE SAMPLE: 781140

Parameter	Units	92121231001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	ug/L	4.1 mg/L	25000	26600	90	75-125	

MATRIX SPIKE SAMPLE: 781142

Parameter	Units	92121231006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	ug/L	1.6 mg/L	25000	23600	88	75-125	

SAMPLE DUPLICATE: 781141

Parameter	Units	92121231001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	ug/L	4.1 mg/L	1440	97	20	D6

SAMPLE DUPLICATE: 781143

Parameter	Units	92121231007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	ug/L	3.8 mg/L	3780	0	20	

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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

QUALIFIERS

Project: ALEXANDER LF (SWS & UIC)
Pace Project No.: 92121374

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

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

TNI - The NELAC Institute.

LABORATORIES

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

ANALYTE QUALIFIERS

D6	The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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Huntersville, NC 28078
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ALEXANDER LF (SWS & UIC)
Pace Project No.: 92121374

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92121374001	**MW-3**	EPA 3010	MPRP/10834	EPA 6010	ICP/9950
92121374002	**MW11**	EPA 3010	MPRP/10834	EPA 6010	ICP/9950
92121374003	**MW26**	EPA 3010	MPRP/10834	EPA 6010	ICP/9950
92121374004	**MW27**	EPA 3010	MPRP/10834	EPA 6010	ICP/9950
92121374005	**MW31**	EPA 3010	MPRP/10834	EPA 6010	ICP/9950
92121374001	**MW-3**	EPA 8260	MSV/19533		
92121374002	**MW11**	EPA 8260	MSV/19533		
92121374003	**MW26**	EPA 8260	MSV/19533		
92121374004	**MW27**	EPA 8260	MSV/19533		
92121374005	**MW31**	EPA 8260	MSV/19533		
92121374001	**MW-3**	SM 2320B	WET/21347		
92121374002	**MW11**	SM 2320B	WET/21347		
92121374003	**MW26**	SM 2320B	WET/21347		
92121374004	**MW27**	SM 2320B	WET/21347		
92121374005	**MW31**	SM 2320B	WET/21347		
92121374001	**MW-3**	SM 4500-S2D	WET/21270		
92121374002	**MW11**	SM 4500-S2D	WET/21270		
92121374003	**MW26**	SM 4500-S2D	WET/21270		
92121374004	**MW27**	SM 4500-S2D	WET/21270		
92121374005	**MW31**	SM 4500-S2D	WET/21270		
92121374001	**MW-3**	SM 5210B	WET/21243	SM 5210B	WET/21244
92121374002	**MW11**	SM 5210B	WET/21251	SM 5210B	WET/21253
92121374003	**MW26**	SM 5210B	WET/21251	SM 5210B	WET/21253
92121374004	**MW27**	SM 5210B	WET/21251	SM 5210B	WET/21253
92121374005	**MW31**	SM 5210B	WET/21243	SM 5210B	WET/21244
92121374001	**MW-3**	EPA 300.0	WETA/12388		
92121374002	**MW11**	EPA 300.0	WETA/12388		
92121374003	**MW26**	EPA 300.0	WETA/12388		
92121374004	**MW27**	EPA 300.0	WETA/12388		
92121374005	**MW31**	EPA 300.0	WETA/12388		
92121374002	**MW11**	EPA 353.2	WETA/12349		
92121374003	**MW26**	EPA 353.2	WETA/12348		
92121374004	**MW27**	EPA 353.2	WETA/12348		
92121374005	**MW31**	EPA 353.2	WETA/12348		
92121374001	**MW-3**	SM 4500-Cl-E	WETA/12456		
92121374002	**MW11**	SM 4500-Cl-E	WETA/12456		
92121374003	**MW26**	SM 4500-Cl-E	WETA/12456		
92121374004	**MW27**	SM 4500-Cl-E	WETA/12456		
92121374005	**MW31**	SM 4500-Cl-E	WETA/12456		
92121374002	**MW11**	SM 5220D	WETA/12450		
92121374003	**MW26**	SM 5220D	WETA/12450		
92121374004	**MW27**	SM 5220D	WETA/12450		
92121374005	**MW31**	SM 5220D	WETA/12450		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ALEXANDER LF (SWS & UIC)
Pace Project No.: 92121374

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92121374001	**MW-3**	SM 5310B	WETA/12389		
92121374002	**MW11**	SM 5310B	WETA/12389		
92121374003	**MW26**	SM 5310B	WETA/12389		
92121374004	**MW27**	SM 5310B	WETA/12389		
92121374005	**MW31**	SM 5310B	WETA/12389		

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Only & final Submittal for this Report

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

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

Regulatory Agency	
State / Location	
North Carolina	

Requested Analysis Filtered (Y/N)

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	VOCs Appendix I	Total Metals Appendix I		Alkalinity	Chloride	Sulfate	Sulfide	TOC	COD	BOD	Iron	Nitrate		
																			N	N	N	N	N	N	N	N	N	N	N	N		
1	MW-3	WT	G			6/13/12	11:50			2		1	5				2		X	X		X	X	X	X	X		X				021213741
2	MW-11	WT	G			6/13/12	5:10			3		2	5				2		X	X		X	X	X	X	X	X	X	X	X		001
3	MW-26	WT	G				2:45			3		2	5				2		X	X		X	X	X	X	X	X	X	X	X		002
4	MW-27	WT	G				2:00			3		2	5				2		X	X		X	X	X	X	X	X	X	X	X		003
5	MW-31	WT	G				9:00			3		2	5				2		X	X		X	X	X	X	X	X	X	X	X		004
6																																005
7																																
8																																
9																																
10																																
11																																
12																																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	MESCO	6/14/12	7:40	PACE	6/14/12	7:40				
	PACE	6/14/12	1521		6/14/12	15:21	1.1	yes	no	yes
							TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jonathan Pfohl

SIGNATURE of SAMPLER: [signature] DATE Signed: 6/13/12

Pace Analytical	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: May 7, 2012 Page 1 of 2
	Document Number: **F-CHR-CS-03-rev.07**	Issuing Authority: Pace Huntersville Quality Office

Client Name: Municipal Project # 92121374

Where Received: ☑ Huntersville ☐ Asheville ☐ Eden

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

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

Optional
Proj. Due Date:
Proj. Name:

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

Thermometer Used: IR Gun 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.: 6.6 C **Biological Tissue is Frozen:** Yes No N/A

Date and Initials of person examining contents: [illegible] 6/14/12

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

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: YG **Date:** 6/14/12 **SRF Review:** YG **Date:** 6/14/12

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)

Appendix B
Field Sampling Parameter Data Sheet(s)

Sampling Data Sheet

Municipal Services Garner, NC · Engineering Company Boone, NC

Project: Alexander Co Closed MSWLF & Active C&D LF

Samplers: J. Pfohl Page 1 of 2

Monitoring Point	Sample Date	Sample Time	Sampling Parameters: Depth to Water (BTOP) Static	Lab Parameters to be analyzed for	Volume Purged (Gal)	Sample Type	Goes Dry During Purge	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 (%vol.)
MW-1	6/15/12	10:35	36.38	AM 2	1	DB	Y	Y	40	NR	0.4	-41	6.47	16.8	462	230	c	1.9% vol.
MW-1A	NS	NS	DRY	AM C	–	–	-	Y	48.5	–	–	–	–	–	–	–	–	0%
MW-1B	6/15/12	10:00	47.31	AM 14	8	P&DB	Barely Y	Y	61	NR	3.67	215	5.51	16.5	70	30	c	0%
MW-2	6/15/12	9:30	24.29	AM 7	4	DB	Barely Y	Y	30	NR	0.7	10	5.91	14.8	472	235	st	NR
MW-3	6/13/12	11:50	26.21	AM & UIC	2	DB	Y	slow recharge Y	33	NR	0.1	-9	5.95	16.3	282	140	322 st	NR
MW-4R	6/12/12	4:30	16.28	AM 4	5	P&DB	case Hinge N	replaced Y	21.5	NR	0.3	-83	6.70	16.4	872	431	c	NR
MW-5	6/13/12	1:15	42.19	MNA 8	5	DB	N	Y	49.1	>100	0.9	-66	6.41	16.1	340	170	267 c	can see vapors
MW-6	6/14/12	3:00	30.31	MNA C	3.5	DB	Y	Y	42	>100	0.7	183	6.89	16.9	401	200	33.5 c	NR
MW-7	NS	NS	41.57	WLR only	-	-	-	-	54	-	-	-	-	-	-	-	-	NR
MW-9	6/14/12	4:30	12.01	AM 13	8	P&DB	N	Y	31.5	NR	1.2	103	6.89	15.3	622	307	c	NR
MW-10	6/14/12	8:15	37.91	AM C	12	P&DB	extremely slow recharge Y	sulphur smell Y	91	NR	-1.1	-52	7.36	16.1	400	200	c	NR
MW-11	6/13/12	5:10	41.47	AM & UIC	11	P&DB	N	Y	56	>100	1.8	13	6.06	17.0	470	230	11.3 c	NR
MW-12	6/14/12	3:50	53.27	AM & MNA	9	P&DB	N	Y	66.5	>100	1.7	141	5.71	16.4	170	80	8.3 c	NR
MW-12D	6/13/12	4:35	61.75	MNA C	9	P&DB	Y	Y	102.5	80	0.1	-82	7.81	16.6	723	363	11.5 c	NR
MW-13	6/14/12	8:50	40.08	DM C	11	P&DB	N	Y	60.5	NR	1.1	76	6.62	17.5	191	80	10.9 c	NR
MW-14	6/15/12	9:00	37.97	AM 11	2	DB	Y	Y	40.5	NR	1.1	148	5.58	14.5	682	340	st	NR
MW-15	6/14/12	9:30	23.91	AM 12	5	P&DB	Barely Y	Y	35	NR	0.9	47	6.52	15.5	440	220	c	NR
MW-16	6/14/12	1:15	31.17	DM	8	P&DB	N	Y	40.25	>100	0.9	321	5.71	16.0	82	40	91.1 st	NR
MW-17	6/15/12	8:15	17.62	AM C	3	DB	Barely Y	Y	22.3	NR	2.1	323	5.22	14.4	61	30	c	NR
MW-18	6/14/12	2:05	54.52	MNA C	2	DB	Y	Y	56.7	30	3.9	307	6.99	16.8	38	19	83.8 st	NR
MW-19	6/14/12	10:10	53.77	AM C	3.5	DB	Y	Y	63.92	NR	2.6	282	6.53	15.9	82	40	c	NR

Comments

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

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

NR=No Reading Attempted, NS=No Sample Obtained

Sampling Data Sheet

Municipal Services Garner, NC — Engineering Company Boone, NC

Project: Alexander Co Closed MSWLF & Active C&D LF

Samplers: J. Pfohl Page 2 of 2

Monitoring Point	Sample Date	Sample Time	Sampling Parameters: Depth to Water (BTOP) Static	Lab Parameters to be analyzed for	Volume Purged (Gal)	Sample Type	Goes Dry During Purge	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 (ppm)
MW-20	6/14/12	10:50	40.28	AM C	8	P&DB	Y	Y	63.55	NR	1.6	91	6.48	14.6	60	20	c	NR
MW-21	6/14/12	12:00	31.82	AM C	6	P&DB	N	Y	41.05	NR	2.1	242	5.46	14.7	40	20	c	NR
MW-22	6/12/12	2:00	15.44	AM 16	4	P&DB	Almost N	Y	18.12	NR	5.9	304	5.21	14.1	30	10	MT	NR
MW-23	6/14/12	11:25	17.64	AM C	5	DB	N	Y	21.54	NR	6.6	217	5.31	13.8	70	30	ST	NR
MW-24	6/13/12	3:30	30.52	MNA C	4	DB	N	Y	35.35	90	2.1	392	6.07	15.3	180	90	107 ST	NR
MW-25	6/13/12	8:05 AM	29.62	MNA C	6	P&DB		Y	44.48	90	0.8	301	6.08	14.9	100	50	13.2 C	NR
MW-26	6/13/12	2:45	26.16	MNA & UIC	12	P&DB	N	Y	49.8	>100	0.9	92	6.02	16.7	410	200	17.1 C	NR
MW-27	6/13/12	2:00	19.81	AM & UIC	8	P&DB	Y	Y	49.82	>100	4.8?	307	6.37	18.2	280	140	19.2 c	NR
MW-31	6/13/12	9:00	21.63	DM & UIC	9	P&DB	N	Y	32.56	60	1.3	308	5.48	15.7	110	50	95.4 ST	NR
MW-32	6/12/12	3:00	31.46	AM C	8	P&DB	N	Y	42.7	NR	1.2	233	6.82	15.1	90	50	11.4 c	NR
MW-33	6/13/12	11:10	13.64	MNA C	10	P&DB	N	Y	21.38	70	5.8	123	5.92	14.8	90	40	ST	NR
MW-34	6/13/12	10:05	8.39	MNA C	12	P&DB	N	Y	21.19	70	6.1	113	6.51	14.5	80	40	207 ST	NR
SW-3	6/15/12	11:20	-	DM C	-	Dip	-	-	-	NR	7.0	16	6.89	21.3	90	40	c	-
SW-4R	6/15/12	10:50	-	DM C	-	Dip	-	-	-	NR	6.8	13	6.92	19.9	80	40	c	-
SW-5	6/15/12	11:10	-	DM C	-	Dip	-	-	-	NR	6.1	12	6.98	20.7	80	30	c	-
SW-6	6/15/12	11:35	-	DM C	-	Dip	-	-	-	NR	5.9	11	7.03	21.3	80	30	c	-
EB	6/15/12	6:40 AM	-	AM	-		-	-	-	-	-	-	-	-	-	-	-	-
FB	6/15/12	6:50 AM	-	AM	-		-	-	-	-	-	-	-	-	-	-	-	-
TB	Pace Field	-	-	AM	-		-	-	-	-	-	-	-	-	-	-	-	-

Comments

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

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NR=No Reading Attempted, NS=No Sample Obtained