Winston-Salem • Forsyth County
City/County Utilities
Water • Sewer • Solid Waste Disposal

OLD SALISBURY ROAD LANDFILL
NC DENR Permit NO. 34-12

ASSESSMENT MONITORING REPORT

Including the May 2014 Groundwater Sampling Event

HDR Project No. 00162-218490-018

Forsyth County, North Carolina

June 2014

NORTH CAROLINA PROFESSIONAL SEAL 019027 ENGINEER ERIC ALAN WRIGHT

6/25/14

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1.0 INTRODUCTION

HDR Engineering, Inc. of the Carolinas (HDR), on behalf of the Winston-Salem City/County Utility Commission (the City), is hereby submitting the assessment monitoring results for groundwater at the Old Salisbury Road C&D Landfill (OSR) located in Forsyth County, North Carolina. The assessment monitoring is being conducted to address the detection of benzene and tetrachloroethene (PCE) above the groundwater monitoring standards in samples collected from groundwater monitoring well MW-2R during the May 2011 and June 2011 events.

1.1. Facility Background

The OSR landfill covers approximately 56 acres and is situated within a 140-acre tract north of Friedberg Church Road and west of O1d Salisbury Road in Forsyth County, North Carolina. The site is accessed via Old Salisbury Road (State Road 3011). The Forsyth/Davidson County line borders the site to the south. Figure 1 illustrates the location of the OSR landfill. The facility was issued a permit to operate on July 3, 1996 and opened in August of the same year.

1.2. Regulatory Authority

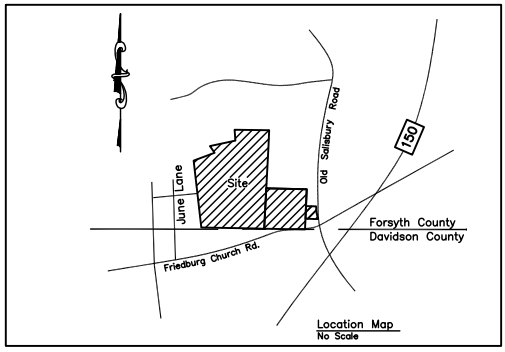
The site is operated under NC DENR facility permit number 34-12 dated November 20, 2009. The groundwater monitoring and reporting requirements are addressed in Items 16 to 26 of the permit. A Ground Water Monitoring Plan was originally prepared by S&ME and submitted by HDR with the Site Plan Application in 1995. HDR has subsequently revised this plan multiple times by letter. Ground water and surface water monitoring plans for the site are addressed by NC Solid Waste Management Rules 15A NCAC 13B .0544(b) and .0544(c) respectively. The site is currently in assessment monitoring due to detections in MW-2R.

An Assessment Monitoring Plan for MW-2R was submitted in accordance with 15A NCAC 13B .0545 by HDR on December 9, 2011. The plan was approved with two exceptions on January 17, 2012. The first exception required the location of MW-15 to be in the same flow path as MW-2R; the second required all wells to be sampled for Appendix II constituents.

In February of 2014 the City requested, and NC DENR approved, the following modifications to the facility's assessment monitoring program.

- Groundwater monitoring wells MW-1R, MW-2R, MW-4R and MW-15 will be sampled semiannually for Appendix I constituents and those additional constituents in Appendix II that have been detected in the last two years;
- Groundwater monitoring wells MW-1R, MW-2R, MW-4R and MW-15 will be sampled during every other Fall event for the entire Appendix II constituent list. The next event for this would occur in the Fall of 2015. Additional Appendix II constituents detected will be added to the sampling program for subsequent semiannual events; and
- All of the other remaining groundwater monitoring wells and surface water locations will continue to be sampled semiannually for the full Appendix I constituent list.

In May 2014, the monitoring plan for the facility was update to incorporate the recent changes and submitted as part of the renewal package for the facility's NC DENR Permit to Operate.

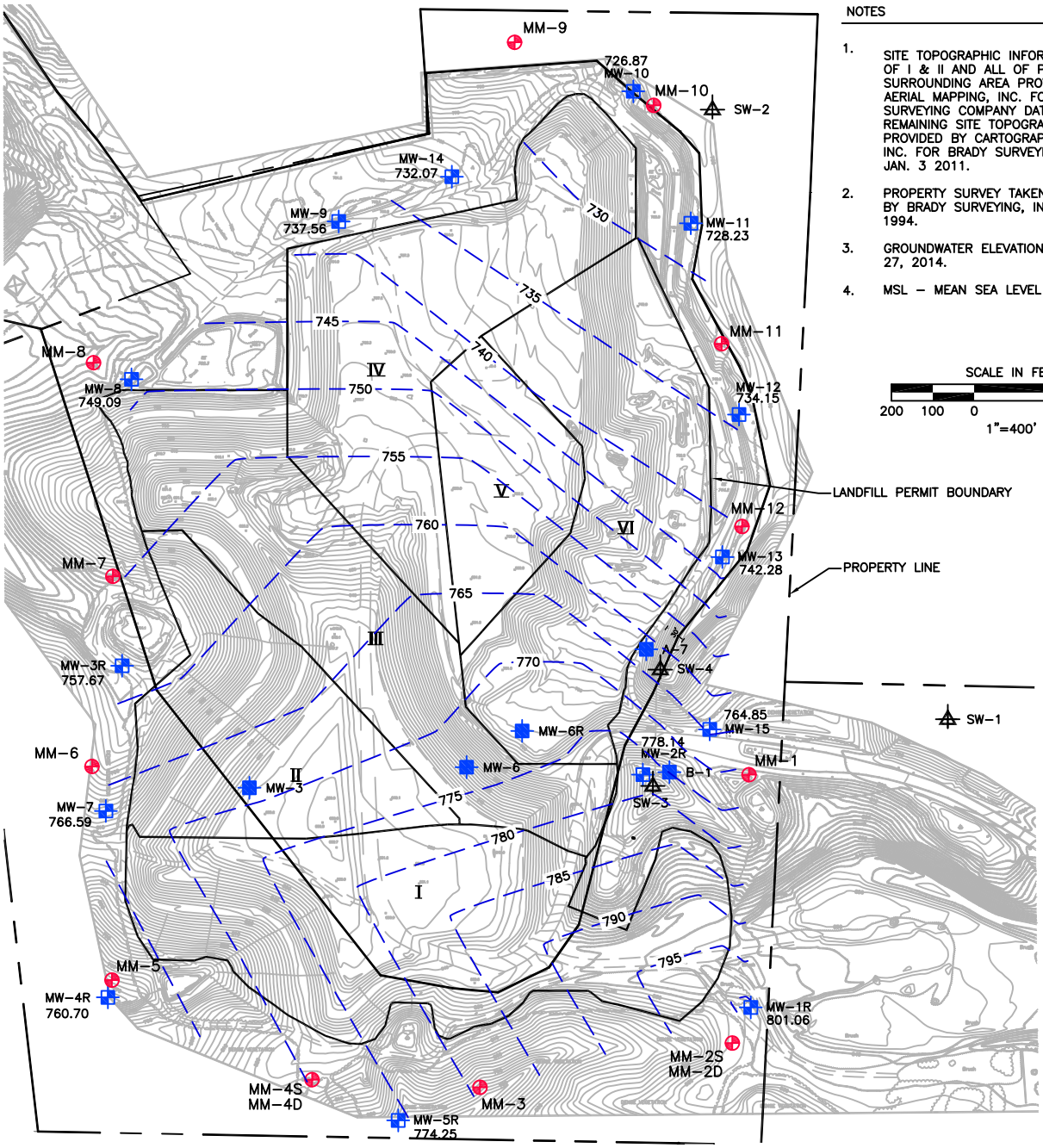


LEGEND

- 810 — EXISTING CONTOURS
- PROPERTY BOUNDARY
- COUNTY LINE
- PERMIT/PHASE BOUNDARY
- 735 — GROUNDWATER CONTOURS

PROPOSED EXISTING ABANDONED

- MONITORING WELLS (MW & OW)
- METHANE PROBES (MM)
- SW-1 — SURFACE WATER



NOTES

1. SITE TOPOGRAPHIC INFORMATION FOR A PORTION OF I & II AND ALL OF PHASES III–VI & SURROUNDING AREA PROVIDED BY CARTOGRAPHIC AERIAL MAPPING, INC. FOR THE BRADY SURVEYING COMPANY DATED JAN. 3, 2014. THE REMAINING SITE TOPOGRAPHIC INFORMATION PROVIDED BY CARTOGRAPHIC AERIAL MAPPING INC. FOR BRADY SURVEYING COMPANY DATED JAN. 3 2011.
2. PROPERTY SURVEY TAKEN FROM DATA SUPPLIED BY BRADY SURVEYING, INC. DATED MARCH 14, 1994.
3. GROUNDWATER ELEVATIONS MEASURED ON MAY 27, 2014.
4. MSL – MEAN SEA LEVEL

SCALE IN FEET

200 100 0 200 400

1"=400'

C:\pwworking\tpa\d0131119\00D-03.dwg, Layout2, 6/18/2014 12:48:23 PM, jgaul

HDR

PROJECT TITLE	OLD SALISBURY ROAD C & D LANDFILL	PROJECT NUMBER	218490–001–018
SHEET TITLE	**GROUNDWATER CONTOURS AND SAMPLE LOCATIONS SPRING 2014**	PROJECT MANAGER	M. PLUMMER, P.E.
		DATE	JUNE 2014
REFERENCE SHEET	LAYOUT 2	REFERENCE DOCUMENT	00D–03
EXHIBIT NUMBER	FIGURE 1		

1.3. Geologic Characteristics

This section paraphrases the descriptions in the July 2003 Ground Water Monitoring Plan and the 2003 Design Hydrogeologic Investigation Report.

1.3.1. Regional Geologic and Hydrogeologic Frame Work

According to the 1985 Geologic Map of North Carolina, OSR is located in the Charlotte belt of the Piedmont Physiographic Province. This Province contains metamorphic and igneous plutonic rocks which in some areas have been extensively weathered and eroded forming an undulating and well-dissected topography. The area is underlain by granite rock which is commonly megacrystic to equigranular in texture.

The bedrock is typically fractured and is overlain by highly weathered bedrock called saprolite. The saprolite varies in thickness from a few feet near bedrock outcrops to over 100 feet. The saprolitic material retains some of the original (relict) structural features of the parent rock. The nearer surface residual soils are formed by the in-place physical and chemical weathering of the saprolite and usually do not retain the relict structural features.

Subsurface conditions generally consist of a veneer of topsoil underlain by residual soils, saprolite, partially weathered rock, and fractured rock. There is generally a gradual transition from one material type to the next with varying thickness of each.

In the Piedmont Physiographic Province, groundwater is present within the openings created by fractures and joints within the bedrock and within the pore spaces of the overlying-saprolite. The saprolite/bedrock aquifers are primarily recharged by precipitation in the interstream areas which infiltrates through the unsaturated zone to the water table. The depth to ground water is generally deeper beneath uplands than beneath valleys. The water table is commonly close to the top of bedrock and is more often than not, located within the saprolite. Groundwater moves laterally and downward through the saprolite and bedrock toward streams, springs, and surface water bodies. The water table surface is generally a subdued reflection of the surface topography.

1.3.2. Site Specific Topography and Drainage

Surface drainage at the subject site is primarily controlled by a north-northwesterly trending ridge within the property. Surface runoff is directed by a ridge within the site. Construction of the landfill generally mimics and replaced the natural ridge that existed prior to the landfill. This ridge directs runoff northeast, west and southwest into tributaries of South Fork Muddy Creek. The majority of surface runoff within this site is directed to South Fork Muddy Creek on the north. A small area in the extreme southeasterly section of the site appears to drain south into Miller Creek. Both the South Fork Muddy Creek and Miller Creek flow to the west where they converge with Muddy Creek. Muddy Creek flows to the south and converges with the Yadkin River.

1.3.3. Site Specific Hydrogeology

As documented in the Design Hydrogeological Investigation Report submitted by HDR on December 2, 2003, the uppermost aquifer underlying the facility is comprised of three units. The stratigraphic downward progression of the three units is saprolite transitioning into partially

weather bedrock, then competent bedrock. Ground water flow through the saprolite and partially weathered bedrock is through the soil matrix, while groundwater flow through the bedrock is primarily fracture flow.

The average effective porosity of the saprolite stratum is 17, while the saprolite transition zone has an effective porosity of 25. The effective porosity of the bedrock is significantly less at 2.

The historically calculated hydraulic conductivity (K) for the saprolite is 0.259 feet per day (ft/day) (9.1 x 10^{-5} cm/sec). The historical average hydraulic conductivities for the transition zone is 0.466 ft/day (1.65 x 10^{-4} cm/sec). The historic hydraulic conductivity of the bedrock aquifer was considerably less than either the saprolite or transition zone units with a K value of 0.043 ft/day (1.5 x 10^{-5} cm/sec). Detailed calculations of the hydraulic conductivity, flow rates, and porosity were provided in the 2003 Hydrogeological Report.

Based on historical field observations (i.e., soil boring records) and laboratory test results from the 2003 Hydrogeological Report, the uppermost aquifer beneath the facility predominantly exists within the unconsolidated saprolitic soil and transition zone units that have been classified as micaceous silty sands and sandy silts produced by the in-situ weathering of the granodiorite parent rock. Groundwater flow within the uppermost aquifer is predominantly porous flow through the unconsolidated units. There is no evidence of discrete flow patterns within the saprolite and transition zones of the uppermost aquifer resulting from relict quartz veins, dikes, healed fractures, or strong preferential alignment of minerals (i.e., foliation). In general, the flow of ground water occurs for the facility is from higher elevations onsite to lower elevations onsite under unconfined (water table) conditions regardless of the unit in which it resides. As such, the static water table generally mimics the topography.

2.0 MONITORING NETWORK

The monitoring wells and surface water sampling locations listed in Table 1 are sampled semiannually. The groundwater monitoring locations are depicted on the Figure 1. Groundwater monitoring well MW-1R is located hydraulically upgradient of the landfill and is considered as the background well for the site. Upstream surface water (SW-1) and downstream surface water (SW-2) samples were obtained from the adjacent stream to the east. Surface water samples (SW-3 and SW-4) were obtained from the drainage channel in the vicinity of MW-2R. SW-3 is located south of the entrance road near MW-2R; SW-4 is located on the north side of the entrance road, downstream of SW-3.

Table 1 – Locations Sampled

Monitoring Wells	MW-1R	MW-2R	MW-3R	MW-4R	MW-5R
	MW-7	MW-8	MW-9	MW-10	MW-11
	MW-12	MW-13	MW-14	MW-15	
Surface Water	SW-1	SW-2	SW-3	SW-4	

The sampled locations were evaluated by the methods and for the analytical parameters listed in Table 2. Samples were collected from each of the landfill groundwater wells using the dedicated QED micropurge pumps that were installed in August 2004, except MW-15, which is sampled with a bailer. Field measurements of pH, conductivity, redox, temperature, turbidity, dissolved oxygen, and depth to groundwater are collected for each well in addition to the parameters listed in Table 2.

Table 2 - Sampling Schedule

Method	*Parameter(s)*	*Frequency*	*Monitoring Wells*	*Surface Water*
EPA 300.0	Sulfate	2x/year	All	All
EPA 6010	Trace Metals	2x/year	All	All
EPA 7470	Mercury	2x/year	All	All
EPA 8081	Pesticides	Fall of odd years (ex. 2015)	All	None
	Pesticides (Previously detected, see below)	2x/year	MW-1R, MW-2R, MW-4R & MW-15	None
EPA 8082	PCB's	Fall of odd years (ex. 2015)	All	None
	PCB's (Previously detected, see below)	2x/year	MW-1R, MW-2R, MW-4R & MW-15	None
EPA 8151	Herbicides	Fall of odd years (ex. 2015)	All	None
	Herbicides (Previously detected, see below)	2x/year	MW-1R, MW-2R, MW-4R & MW-15	None
EPA 8260	App I VOCs + Tetrahydrofuran	2x/year	All	All
	Appendix II VOCs	Fall of odd years (ex. 2015)	All	None
EPA 8270	SVOCs	Fall of odd years (ex. 2015)	All	None
	SVOCs (Previously detected, see below)	2x/year	MW-1R, MW-2R, MW-4R & MW-15	None
SM 2320B	Alkalinity	2x/year	All	All
SM 2540C	Total Dissolved Solids	2x/year	All	All
SM 4500	Chloride, Cyanide, Sulfide	2x/year	All	All
Field	Temperature, Specific conductance, Dissolved Oxygen, Redox, Turbidity, pH	2x/year	All	All
Field	Total well depth and static water level	2x/year	All	NA

Current Detects for:

EPA Method 8081: 4,4'-DDD, 4,4'-DDT, Aldrin, alpha-BHC, delta-BHC, Endosulfan II, Endrin, Endrin aldehyde, Heptachlor, Methoxychlor
EPA Method 8082: None.
EPA Method 8151: 2,4,5-TP (Silvex), 2,4-D
EPA Method 8270: Benzo(a)anthracene, Bis(2-ethylhexyl)phthalate, Chrysene

3.0 DATA COLLECTION

As described in the previous section, the monitoring program consists of collection and analysis of groundwater samples from 14 wells. The last sampling event occurred over three days (May 27 to 29, 2014). Pace Analytical Laboratories, Inc. (Pace), sampled the groundwater monitoring wells during the reporting period on behalf of HDR. Groundwater elevations were measured at all wells within a two hour window on the morning of May 27, 2014.

The depth from the top of the PVC casing to groundwater is measured to the nearest 0.01 foot prior to purging each well. This depth to water, when subtracted from the reference datum, provides a groundwater surface elevation. Figure 2 illustrates the relative groundwater elevations in the on-site monitoring wells over time. During the November 2012 and 2013 events, the water level in MW-3R was somewhere in the zone occupied by the pump. The MW-3R elevations illustrated on Figure 2 for those dates is the point where the water level meter encountered the dedicated pump.

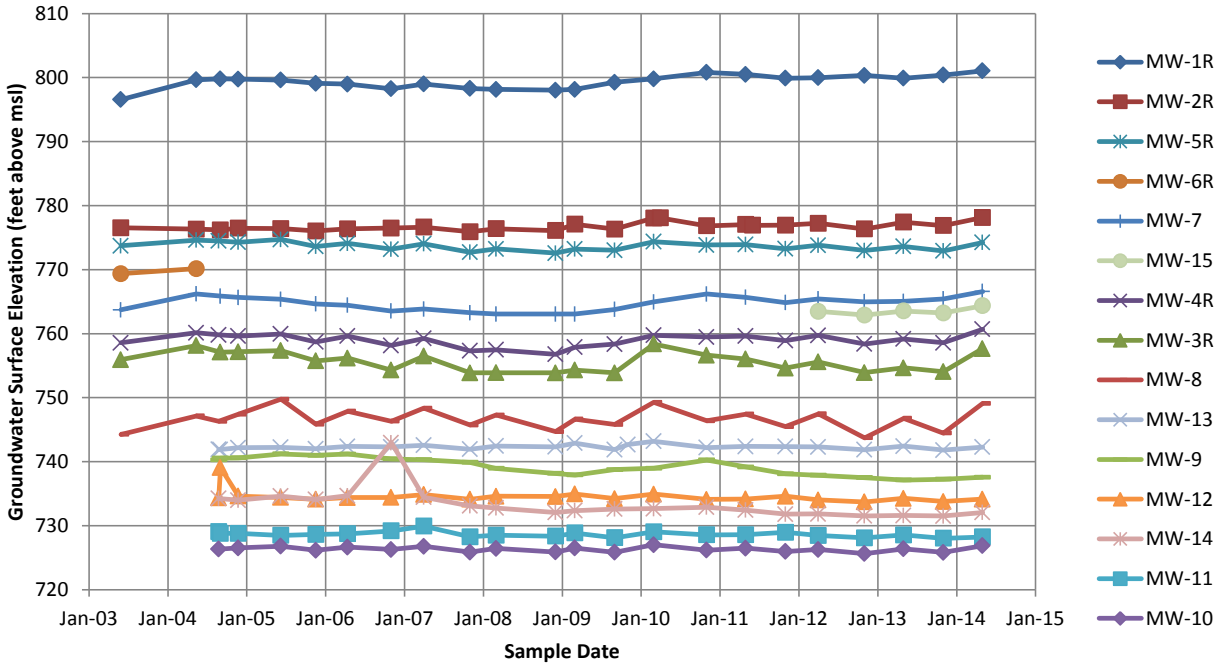


Figure 2 - Historic Groundwater Elevations

A variable speed micro-purge pump (or bailer in the case of MW-15) was used to evacuate groundwater from each well until stabilization of measured field parameters (pH, conductivity, redox, temperature, turbidity, and dissolved oxygen) occurred. Following completion of purging activities, the wells were sampled using the same pump and field parameters (pH, specific conductance, redox, turbidity, dissolved oxygen, and temperature) were recorded on field sampling logs. Copies of these logs are provided in Appendix B.

Table 3 illustrates the hydraulic gradients calculated between representative well pairs and the corresponding flow velocities. The flow velocities have been calculated based on the values for hydraulic conductivity (0.466 ft/day) and effective porosity (25%), as presented in Table 2-9 of the December 2003 OSR Design Hydrogeologic Investigation Report for the landfill. Similar numbers presented in previous reports were based on a hydraulic conductivity (0.259 ft/day) and effective porosity (18.6%), as presented on pages 3 & 5 of the August 2002 version of the OSR Design Hydrogeologic Investigation Report. The current assumptions result in higher flow rates than those previously estimated.

The minimum and maximum values are based on the historic data collected from the site beginning in May 2003. HDR estimates a travel time of about four years between MW-2R and MW-15, based on the estimated flow rate of 48 ft/yr and a distance of 195 feet.

Table 3 - Hydraulic Gradient & Flow Velocity

Hydraulic Gradient (ft/ft) / Flow Velocity (ft/yr)	Based on Historic Record							
	Minimum	Maximum	Nov 2011	April 2012	Nov 2012	April 2013	Nov 2013	May 2014
MW-1R to MW-4R	0.024 / 17	0.027 / 18	0.026 / 18	0.026 / 18	0.027 / 18	0.026 / 18	0.027 / 18	0.026 / 18
MW-1R to MW-2R	0.032 / 22	0.039 / 26	0.037 / 25	0.037 / 25	0.039 / 26	0.036 / 25	0.038 / 26	0.037 / 25
MW-2R to MW-13	0.060 / 41	0.064 / 44	0.062 / 42	0.062 / 42	0.062 / 42	0.062 / 43	0.063 / 43	0.064 / 44
MW-13 to MW-10	0.013 / 9	0.014 / 10	0.014 / 10	0.014 / 10	0.014 / 10	0.014 / 10	0.014 / 9	0.013 / 9
MW-2R to MW-15	0.069 / 47	0.071 / 48	NA	0.071 / 48	0.069 / 47	0.071 / 48	0.070 / 48	0.071 / 48

4.0 RESULTS

4.1. Detected GW Constituents

A summary of the constituents detected during this period, along with the NC DENR solid waste section limits (SWSL) and applicable maximum concentration levels, are provided in Table 4. There were nineteen detections above the 2L standard; these detections comprised five parameters in nine locations during this event. Methylene chloride was detected in MW-2R and the trip blank during this event.

Table 4 - Event Summary – May 2014

Facility Permit: 34-12 — Old Salisbury Road Landfill (C&D)
Sampling Event Month: May-14
To distinguish non detections (ND) from not sampled (NS), refer to complete laboratory analysis. This table represents both ND and NS as blanks.

Standard SWSL	Max 2L	units	Row Labels (Column)	MW-1R	MW-2R	MW-3R	MW-4R	MW-5R	MW-7	MW-8	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	SW-1	SW-2	SW-3	SW-4	Trip Blank
			EPA 300.0																			
			µg/L																			
3E+05	250000	µg/L	Sulfate		136000	4230	85200	8060					10700	48000	8680		59500	2820	12700	26300	23500	
			EPA 6010																			
			µg/L																			
6	1000	µg/L	Antimony		5.4																	
10	10	µg/L	Arsenic			8.9																
100	700	µg/L	Barium	124	324	205	264	54.4	90.8	30.7	168	132	94.3	61.1	77.1	163	8.6	65.8	59.7	181	126	
10	10	µg/L	Chromium					5.6														
10	1000	µg/L	Cobalt		22.8		46.6											9		14.8		
300	300	µg/L	Iron	52.9	1650	38200		123					33400	348	232	142	292	8210	2130	8890	2520	
50	50	µg/L	Manganese		7950	9260	641	6.1	15.5			10.9	1960	14.6	34.1	40.2	34.7	749	219	4320	2250	
50	100	µg/L	Nickel		20.6																	
10	20	µg/L	Selenium		16.5		11.5															
NE	NE	µg/L	Sodium	10800	59700		39700	13600	14200	6160	12400		8490	11000	11200	12800	24200	14500	9840	29900	24400	
10	1000	µg/L	Zinc					11.4							17.2	11.7						
			EPA 7470																			
			µg/L																			
0.2	1	µg/L	Mercury									0.51										
			EPA 8260																			
			µg/L																			
5	6	µg/L	1,1-Dichloroethane		0.83				0.81													
1	1	µg/L	Benzene		1.8		0.28													0.32		
5	70	µg/L	Chloroform														0.49					
5	70	µg/L	cis-1,2-Dichloroethene		0.38				0.37													
1	5	µg/L	Methylene chloride		3.7																	1.1
NE	NE	µg/L	o-Xylene		0.31																	
1	0.7	µg/L	Tetrachloroethene		1.8																	
NS	NS	µg/L	Tetrahydrofuran		72.6		11.8		5.2			18.6					21.4			9.7	4.4	
1	3	µg/L	Trichloroethene		0.71																	
1	2000	µg/L	Trichlorofluoromethane		3.7				0.62		0.47	0.2		0.32		0.34	5.3					
			SM 2320B																			
			µg/L																			
NE	NE	µg/L	Alkalinity, Total as	30000	344000	155000	222000	31900	51900	21300	18300	31400	175000	45500	46400	37400	96600	45200	41300	259000	158000	
			SM 4500-Cl-E																			
			µg/L																			
NE	250000	µg/L	Chloride	5600	50500	3260	29700	13900	3600	1800	3610	1820	12400	6180	3880	3630	83400	23700	10700	16900	30800	
			SM 2540C																			
			µg/L																			
NE	500000	µg/L	Total Dissolved Sol	91000	549000	187000	445000	167000	126000	50000	107000	63000	207000	149000	113000	124000	373000	126000	120000	319000	257000	
			Field																			
			°C																			
			Field Temperature	18.4	19.6	18.7	14.8	14.7	17.2	16	17.7	15	14.4	15	16.6	17.7	17.8	21.2	19.7	18.9	19.3	
			µmhos/cm																			
			Field Specific Conc	137	1040	367	715	194	171	64	155	86	430	243	149	156	623	205	183	649	478	
			mg/l																			
			Oxygen, Dissolved	5.3	4.8	6.3	6.2	8.6	3.8	8.4	8.7	8.3	7.5	8.4	6.8	8.1	5.4	5.5	7.3	2.9	7	
			mV																			
			REDOX	411	243	146	374	389	363	389	436	436	27	315	367	437	406	284	252	127	262	
			NTU																			
			Turbidity	3	11	6	17	10	6	8	5	4	22	15	147	118	50	51	23	14	33	
			Std. Units																			
			Field pH	5.6	5.8	6	5.7	5.7	5.3	5	5.2	5	6	5.9	5.6	5.5	6.3	6.4	6.8	6.5	6.8	
			feet																			
			Static Water Level	35.36	7.08	18.93	7.26	10.11	37.07	13.41	52.72	11.34	4.36	4.92	8.95	51.81	38.5					
			Total Well Depth	60	21	27	20	30	37.05	27	60	21	20	15.58	20	60	50.85					

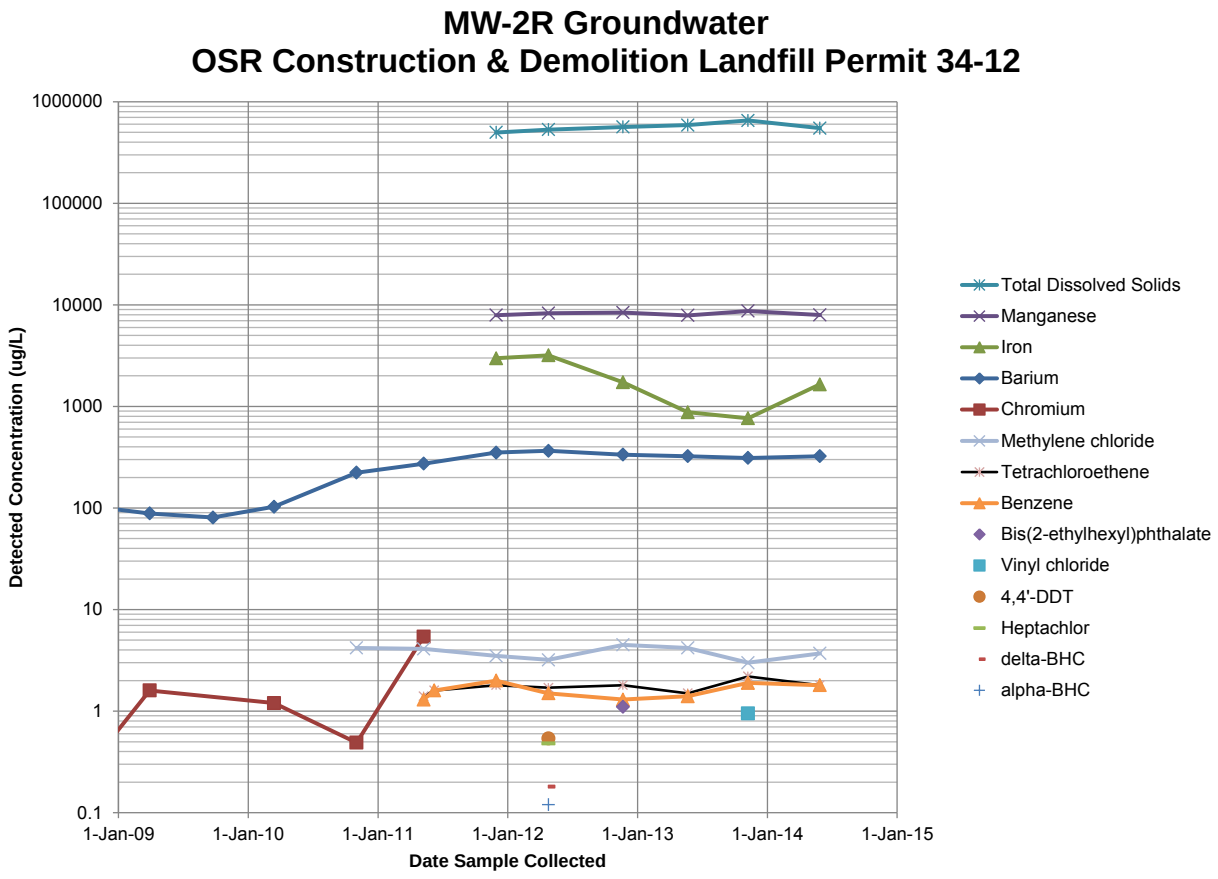
Appendix A contains historical summaries of detections by well and by parameter. The complete laboratory analyses are provided in Appendix B. The field data sheets are provided in Appendix C. A Microsoft Excel file containing the analysis data in NC DENR electronic data deliverable format is include on the compact disc in Appendix D.

The constituents detected above 2L groundwater standards for this event are as follows.

- Iron in MW-2R, MW-3R, MW-11, MW-12 and all four surface water samples.
- Manganese in MW-2R, MW-3R, MW-4R, MW-11 and all four surface water samples.
- Benzene in MW-2R.
- Tetrachloroethene in MW-2R.
- Total dissolved solids in MW-2R and SW-3.

Only Appendix I constituents, were detected during the May 2014 sampling event.

Figure 3 - Selected Ground Water Detections in MW-2R



4.2. Landfill Gas

Landfill gas was measured at MW-2R and selected wells in the vicinity during each groundwater event. Results did not indicate the presence of methane gas in these wells. The results do indicate the presence of

carbon dioxide above ambient levels in MM-1. The City is responsible for quarterly sampling of all methane monitoring wells and related reporting, which is not included in this document.

Table 5 - Methane Gas Readings

Date	Time	ID #	CH_4 (%)	CO_2 (%)	O_2 (%)
25-Apr-12	9:50	MM-1	0.0%	4.8%	16.3%
25-Apr-12	10:05	MW-13	0.0%	0.5%	20.8%
25-Apr-12	9:55	MW-15	0.0%	0.2%	21.0%
25-Apr-12	9:27	MW-1R	0.0%	0.2%	20.8%
25-Apr-12	9:40	MW-2R	0.0%	0.1%	21.0%
19-Nov-12	8:26	MM-1	0.0%	4.8%	16.7%
19-Nov-12	8:55	MW-13	0.0%	0.5%	20.4%
19-Nov-12	8:46	MW-15	0.0%	0.0%	20.7%
19-Nov-12	8:17	MW-1R	0.0%	0.0%	20.6%
19-Nov-12	8:35	MW-2R	0.0%	0.1%	20.7%
20-May-13	8:51	MM-1	0.0%	4.4%	16.2%
20-May-13	8:35	MW-13	0.0%	0.4%	20.5%
20-May-13	8:43	MW-15	0.0%	0.2%	20.8%
20-May-13	9:09	MW-1R	0.0%	0.0%	21.1%
20-May-13	8:55	MW-2R	0.0%	0.1%	21.0%
8-Nov-13	7:40	MM-1	0.0%	4.5%	18.0%
8-Nov-13	7:55	MW-13	0.0%	1.2%	20.8%
8-Nov-13	7:45	MW-15	0.0%	1.0%	20.8%
8-Nov-13	7:25	MW-1R	0.0%	0.2%	21.1%
8-Nov-13	7:50	MW-2R	0.0%	0.1%	21.2%
27-May-14	11:05	MM-1	0.0%	4.0%	16.9%
27-May-14	11:27	MW-13	0.0%	0.6%	19.4%
27-May-14	11:17	MW-15	0.0%	0.6%	19.8%
27-May-14	10:51	MW-1R	0.0%	0.1%	20.9%
27-May-14	11:10	MW-2R	0.0%	0.1%	20.3%

Highlighted cells are outside of normal ranges

5.0 SUMMARY & RECOMMENDATIONS

No constituents from the expanded Appendix II list were detected during this event. The level of detections from this event is generally consistent with previous events. HDR intends to continue assessment groundwater monitoring as outlined in the request of February 2014 and reiterated in the recently revised monitoring plan. No new actions are recommended at this time.

A

Appendix A – Summary of Groundwater Monitoring Results

A.1 Detections by Well Location

A.2 Detections by Date

Facility Permit	34-12

Old Salisbury Road Landfill (C&D)

Historic Detections

Highlighted cells are at or above the current standard. Blank cells indicate either NS or ND.

MCL SWSL	MCL 2L	units	Value / Row Labels	May-14	Nov-13	May-13	Nov-12	Apr-12	Dec-11	Nov-11	Jun-11	May-11	Nov-10	Apr-10	Mar-10	Sep-09	Mar-09	Dec-08	Mar-08	Nov-07	Apr-07	Nov-06	Apr-06	Nov-05	Jun-05	Nov-04	Aug-04	May-04	Nov-03	May-03	Dec-02	Apr-02	Nov-01	Jul-01	Dec-00	Jun-00	Nov-99	Jun-99	Nov-98	May-98	Oct-97	May-97	Oct-96	Jan-96
1			µg/L																																										
1			MW-1R																																										
0	NE	µg/L	Alkalinity, Total as CaCO3	30000	28100	29800	26300	27100	27500																																				
0	10	10 µg/L	Arsenic																														5.8												
0	100	700 µg/L	Barium	124	106	109	91.7	93.8	82.6			84.7	85.4		85.3	92.8	74.3	85	90.3	105	81	94	82	78	48	95		96.3	460	120	100	130	280	87	150	110	130	150	160	100	290	100	180	224
0	10	0.05 µg/L	Benzo(a)anthracene				1.4																																						
0	15	3 µg/L	Bis(2-ethylhexyl)phthalate				2.4																																						
0	100	700 µg/L	Carbon Disulfide																																				28					23
0	NE	250000 µg/L	Chloride	5600	5880	5910	5320	5350																																					
0	10	10 µg/L	Chromium									1.4	0.96		1.4	2	0.88	0.64	0.49							2		3.5		4.3	2.3	5	22	6.6	6.6		5.2	7.8	12	49	11	3	6	
0	10	5 µg/L	Chrysene				1.5																																						
0	300	300 µg/L	Iron	52.9																																									
0	10	15 µg/L	Lead																										22				10								12			6
0	0.2	1 µg/L	Mercury																																								0.2	1.8
0	1	5 µg/L	Methylene chloride																																			13						
0	10	20 µg/L	Selenium																						5.5																				
0	10.0	20.0 µg/L	Silver									0.51			0.29	0.48		0.62	0.43																										
0	NE	µg/L	Sodium	10800	9940	9080	9180	9440	7670																																				
0	1	600 µg/L	Toluene																														21												
0	NE	500000 µg/L	Total Dissolved Solids	91000	103000	84000	95000	93000	95000																																				
1			MW-2R																																										
0	5	6 µg/L	1,1-Dichloroethane	0.83	1.3	1.2	1.2	1.1		1.2		1.1																																	
0	5	350 µg/L	1,1-Dichloroethene					36.6		38.7																																			
0	2	50 µg/L	2,4,5-TP (Silvex)		0.23																																								
0	2	70 µg/L	2,4-D		1.1																																								
0	100	4000 µg/L	2-Butanone (MEK)																																										86
0	50	NE µg/L	2-Hexanone			0.48																																							
0	0.1	0.1 µg/L	4,4'-DDT					0.54																																					
0	100	6000 µg/L	Acetone			20.3				3.7																																			
0	0.05	2 µg/L	Aldrin					0.12																																					
0	NE	NE µg/L	Alkalinity, Total as CaCO3	344000	349000	363000	277000	196000		219000	165000																																		
0	0.05	0.006 µg/L	alpha-BHC					0.12																																					
0	6	1000 µg/L	Antimony	5.4																																									
0	10	10 µg/L	Arsenic																																				11						
0	100	700 µg/L	Barium	324	311	324	335	366		351		273	223		103	80.7	88.5	98.8	102	107	79	90	52	62	43	52		55	60	56	140	100	160	280	61	180	120	150	1100	190	340	200	160	350
0	1	1 µg/L	Benzene	1.8	1.9	1.4	1.3	1.5		2	1.6	1.3																																	
0	15	3 µg/L	Bis(2-ethylhexyl)phthalate				1.1																																						
0	1	2 µg/L	Cadmium																												1.9											3			
0	NE	250000 µg/L	Chloride	50500	56700	50000	64000	61500		62400																																			
0	5	70 µg/L	Chloroform				0.16			0.26		0.36						3.4																											
0	10	10 µg/L	Chromium									5.4	0.49		1.2		1.6	0.5	0.79										2.2		2.1		16	16	3.9	3	14	7.8	210	34	43	4	9	12
0	5	70 µg/L	cis-1,2-Dichloroethene	0.38	0.41	0.26	0.25	0.33		0.46		0.26																																	
0	10	1000 µg/L	Cobalt	22.8	19.2	18.2	15.2	14.8		11.8																																			
0	0.05	0.019 µg/L	delta-BHC					0.18																																					
0	0.1	2 µg/L	Endrin				0.27																																						
0	0.1	2 µg/L	Endrin aldehyde				0.23	0.28																																					
0	0.05	0.008 µg/L	Heptachlor					0.48																																					
0	300	300 µg/L	Iron	1650	766	877	1730	3190		2980																																			
0	10	15 µg/L	Lead																														7	8.9		6.5	6.9		68	19	31	14	8	26
0	5	500 µg/L	m&p-Xylene							0.66		0.74																																	
0	50	50 µg/L	Manganese	7950	8710	7880	8400	8280		7920																																			
0	0.2	1 µg/L	Mercury																					0.34																					0.4
0	NS	NS µg/L	Methane								1280																																		
0	1	40 µg/L	Methoxychlor					0.83																																					
0	1	5 µg/L	Methylene chloride	3.7	3	4.2	4.5	3.2		3.5		4.1	4.2																									13							
0	10	6 µg/L	Naphthalene		0.86	1.3	1.6	1.9																																					
0	50	100 µg/L	Nickel	20.6	27.1	20.7	21.8	22.3		20.9																																			
0	NS	NS µg/L	Nitrogen, Ammonia								0.12																																		
0	NE	NE µg/L	o-Xylene	0.31	0.54	0.54	0.63	1		1.2		0.84																																	
0	10	20 µg/L	Selenium	16.5																																									
0	10	20 µg/L	Silver					5.2		5		2.5	0.85		0.67	0.68	0.58	1.2	0.93																							6		
0	NE	NE µg/L	Sodium	59700	46200	45700	43400	38400		31800	27200																																		
0	250000	250000 µg/L	Sulfate	136000	128000	115000	79500	95000		96300																																			
0	1	0.7 µg/L	Tetrachloroethene	1.8	2.2	1.5	1.8	1.7		1.8	1.6	1.4																																	

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Old Salisbury Road Landfill (C&D)

Historic Detections

Highlighted cells are at or above the current standard. Blank cells indicate either NS or ND.

MCL SWSL	MCL 2L	units	Value / Row Labels	May-14	Nov-13	May-13	Nov-12	Apr-12	Dec-11	Nov-11	Jun-11	May-11	Nov-10	Apr-10	Mar-10	Sep-09	Mar-09	Dec-08	Mar-08	Nov-07	Apr-07	Nov-06	Apr-06	Nov-05	Jun-05	Nov-04	Aug-04	May-04	Nov-03	May-03	Dec-02	Apr-02	Nov-01	Jul-01	Dec-00	Jun-00	Nov-99	Jun-99	Nov-98	May-98	Oct-97	May-97	Oct-96	Jan-96
0 NS	NS	µg/L	Tetrahydrofuran	72.6	99.6	111	93.2	152		197	274	226																																	
0 NE	500000	µg/L	Total Dissolved Solids	549000	654000	589000	564000	531000		498000																																			
0	1	3	µg/L	Trichloroethene	0.71	0.89	0.68	0.77	0.82		0.88		0.65																																
0	1	2000	µg/L	Trichlorofluoromethane	3.7	12	12.1	16.9	20.9		20.1		31.6	36.1	21.9	22.2																													
0	25	300	µg/L	Vanadium		5.5																																							
0	1	0.03	µg/L	Vinyl chloride		0.95																																							
0	5	500	µg/L	Xylenes (Total)				0.98	1.6																																				
0	10	1000	µg/L	Zinc		12.2	21.1	24.5	35.2		33.3																																		
1				MW-3R																																										
0 NE	NE	µg/L	Alkalinity, Total as CaCO3	155000	155000	175000	142000	150000		155000																																			
0	10	10	µg/L	Arsenic	8.9										4																	7.4	8.4	18	31		5.9								
0	100	700	µg/L	Barium	205	201	216	173	228		237		301	302		314	289	252	231	293	273	310	230	290	300	300	340		270	200	220	13	370	400	950	1500	300	52		1400	860	620	800	790	1230
0	15	3	µg/L	Bis(2-ethylhexyl)phthalate					5.5																																				
0	1	2	µg/L	Cadmium											0.82							2																							
0	100	700	µg/L	Carbon Disulfide												26.1	3.3																												
0 NE	250000	µg/L	Chloride	3260	3620	3860	3920																																						
0	10	10	µg/L	Chromium															0.63							2.3		3.7	2.3			15	19	50	100		24		77	25	16	28	20	9
0	10	1000	µg/L	Cobalt		53.5	64.1		16.4																																				
0	10	70	µg/L	Cyanide		7.1	8.1	9.1	6.5																																				
0	300	300	µg/L	Iron	38200	31300	34100	25300	41500		40300																																		
0	10	15	µg/L	Lead																								14				21	35	53	80		40		39	32	26	27	15	15
0	50	50	µg/L	Manganese	9260	9990	9630	11600	9310		7310																																		
0	0.2	1	µg/L	Mercury																																					0.2			0.7
0	10	20	µg/L	Selenium														11.8	4.9	18.1	24																								
0	10	20	µg/L	Silver									0.6			0.45	1	0.29	1.5	0.87																									
0 250000	250000	µg/L	Sulfate	4230	3400	5070	5420	6860																																					
0	100	2E+06	µg/L	Tin			5.8																																						
0 NE	500000	µg/L	Total Dissolved Solids	187000	193000	175000	172000	168000		180000																																			
0	10	1000	µg/L	Zinc			10.5																																						
1				MW-4R																																										
0	0.1	0.1	µg/L	4,4'-DDT					0.14																																				
0 NE	NE	µg/L	Alkalinity, Total as CaCO3	222000	224000	203000	174000	64300	143000																																				
0	10	10	µg/L	Arsenic																								9.2				12	5.6				7.5								
0	100	700	µg/L	Barium	264	296	375	400	407	328			126	335		55.9	334	58.3	263	172	287	200	220	220	180	150	140		380	97	94	86	61	900	550	350	570	860	950	2000	850	650	280	720	595
0	1	1	µg/L	Benzene	0.28	0.27																																							
0	1	2	µg/L	Cadmium																																									7
0 NE	250000	µg/L	Chloride	29700	36500	33700	34500	33200	29200																																				
0	1	3	µg/L	Chloromethane									0.15																																
0	10	10	µg/L	Chromium									1.3	0.68		1.3	5.4	1.2	0.58	0.4									14	2.6	5.5	5		95	38	28		60	110	300	130	55		47	21
0	10	1000	µg/L	Cobalt	46.6	49.4	35.3	35.5	21.5	15																																			
0	10	70	µg/L	Cyanide		5.9																																							
0	0.05	0.019	µg/L	delta-BHC					0.069																																				
0	0.1	42	µg/L	Endosulfan II				0.12																																					
0	300	300	µg/L	Iron		89.5	158	344	145	368																																			
0	10	15	µg/L	Lead												4.8												18		5.3	6		36	14	8.1	9.5	40	50	76	43	29	12	16	17
0	50	50	µg/L	Manganese	641	688	496	541	370	257																																			
0	0.2	1	µg/L	Mercury																																	0.36		0.21				0.3	1.7
0	1	5	µg/L	Methylene chloride																																		10							
0	50	100	µg/L	Nickel		5.3																																							
0	10	20	µg/L	Selenium	11.5																																								
0	10	20	µg/L	Silver									0.88	1.3			2.4		2.6	0.94																							6		
0 NE	NE	µg/L	Sodium	39700	42600	42600	43600	40400	35300																																				
0 250000	250000	µg/L	Sulfate	85200	113000	97600	73600	98700	61800																																				
0 NS	NS	µg/L	Tetrahydrofuran	11.8	11.7	8.5	13.5	8.8																																					
0 NE	500000	µg/L	Total Dissolved Solids	445000	496000	413000	435000	374000	345000																																				
0	10	1000	µg/L	Zinc			13.6																																						

Facility Permit	34-12

Old Salisbury Road Landfill (C&D)

Historic Detections

Highlighted cells are at or above the current standard. Blank cells indicate either NS or ND.

MCL SWSL	MCL 2L	units	Value / Row Labels	May-14	Nov-13	May-13	Nov-12	Apr-12	Dec-11	Nov-11	Jun-11	May-11	Nov-10	Apr-10	Mar-10	Sep-09	Mar-09	Dec-08	Mar-08	Nov-07	Apr-07	Nov-06	Apr-06	Nov-05	Jun-05	Nov-04	Aug-04	May-04	Nov-03	May-03	Dec-02	Apr-02	Nov-01	Jul-01	Dec-00	Jun-00	Nov-99	Jun-99	Nov-98	May-98	Oct-97	May-97	Oct-96	Jan-96
1			MW-5R																																									
0	100	6000	µg/L	Acetone																																		150						
0	NE	NE	µg/L	Alkalinity, Total as CaCO3	31900	31700	34800	31200	134000	32800																																		
0	10	10	µg/L	Arsenic											4.2											5.1		5					7		5					5				
0	100	700	µg/L	Barium	54.4	53.9	57.7	53.4	57.5	85.2			63.7	53		54.3	66.8	52.6	56.1	57.5	70.6	58	58	57	54	53	80		76	65	72	65	150	610	270	400	200	200	240	480	820	610	330	620	1000
0	15	3	µg/L	Bis(2-ethylhexyl)phthalate				1																																				
0	1	2	µg/L	Cadmium																										2.7														
0	100	700	µg/L	Carbon Disulfide																																		25						
0	NE	250000	µg/L	Chloride	13900	15200	16200	16100	16100	16400																																		
0	1	3	µg/L	Chloromethane																				5.4																				
0	10	10	µg/L	Chromium	5.6				5.2	14.7			7.6	5.8		5	8.6	5.2	5.3	5.6	8.4	6.4	6.2	6.2	3.5	5.6	14		7.3	8.7	9.5	7.4	23	140	49	82	8.1	29	38	96	170	16	70	43	96
0	300	300	µg/L	Iron	123		126	102	209	3540																																		
0	10	15	µg/L	Lead																								5.1					13	7.6	7.6		8.2	16	29	69	31	14	20	19
0	50	50	µg/L	Manganese	6.1					43.5																																		
0	0.2	1	µg/L	Mercury																				0.4																				0.8
0	1	5	µg/L	Methylene chloride																																		10						
0	10	20	µg/L	Silver									0.57	0.16		0.46	0.6	0.28	0.78	0.56																								
0	NE	NE	µg/L	Sodium	13600	13800	13000	14500	14200	13300																																		
0	250000	250000	µg/L	Sulfate	8060	8310	11200	8400	7910	7020																																		
0	NE	500000	µg/L	Total Dissolved Solids	167000	154000	131000	157000	149000	139000																																		
0	25	300	µg/L	Vanadium						13																																		
0	10	1000	µg/L	Zinc	11.4					15.3																																		
1			MW-6R																																									
0	10	10	µg/L	Arsenic																													16											
0	100	700	µg/L	Barium																								28	25	24	41	180	530	62	41	82	59		160	360	260	300	590	1400
0	10	10	µg/L	Chromium																								2.2	2.4		3.2	26	95	4.1	2.6		2.8		12	33	14	21	10	12
0	10	15	µg/L	Lead																												7.6	38			5.8				20	14	14	11	18
0	0.2	1	µg/L	Mercury																																								1.4
1			MW-7																																									
0	1	200	µg/L	1,1,1-Trichloroethane									0.82																															
0	5	6	µg/L	1,1-Dichloroethane	0.81	0.9	0.84	1.2	1.2			1.9	3.8																															
0	0.1	0.1	µg/L	4,4'-DDD					0.13																																			
0	NE	NE	µg/L	Alkalinity, Total as CaCO3	51900	51600	63500	51900	50200			47700																																
0	10	10	µg/L	Arsenic											3.4														8.6				17	16	45			9.8						
0	100	700	µg/L	Barium	90.8	98.8	115	95.1	100			97.1	104	100		99.3	104	86.9	99	95.7	101	89	76	74	60	53	63		180	820	130	210	84	1300	1300	2600	360	390	960	1300	1200	1800	750	970	1930
0	0.05	0.019	µg/L	beta-BHC					0.1																																			
0	100	700	µg/L	Carbon Disulfide													12.5																						9					
0	NE	250000	µg/L	Chloride	3600	5160	5340	3810																																				
0	10	3000	µg/L	Chloroethane				1.3																																				
0	10	10	µg/L	Chromium										0.55			0.65		0.91	7.3						4.4		26	150	17	32	6.8	270	210	580	2.5	62	190	350	430	410	180	21	28
0	5	70	µg/L	cis-1,2-Dichloroethene	0.37	0.54	0.72	0.62	0.5			0.67	0.71																															
0	10	70	µg/L	Cyanide			5																																					
0	0.002	0.002	µg/L	Dieldrin				0.11	0.081																																			
0	0.075	0.004	µg/L	Heptachlor epoxide				0.12	0.066																																			
0	10	15	µg/L	Lead																									24	5.3	6		36	26	65	8.7	12	30	36	38	53	23	6	17
0	5	500	µg/L	m&p-Xylene			0.96						1.4																															
0	50	50	µg/L	Manganese	15.5	19.4	24.9	17.4	10.2			12.7																																
0	0.2	1	µg/L	Mercury																				0.24																	0.2		0.4	1.4
0	1	5	µg/L	Methylene chloride																																		10						
0	NE	NE	µg/L	o-Xylene			0.27						0.39																															
0	10	20	µg/L	Silver									0.84	0.23		0.56	0.88	0.42	0.96	0.66												2.6												
0	NE	NE	µg/L	Sodium	14200	13000	14300	13900	13700			12000																																
0	250000	250000	µg/L	Sulfate				2090																																				
0	NS	NS	µg/L	Tetrahydrofuran	5.2	13.7	24.2	26	18.9																																			
0	NE	500000	µg/L	Total Dissolved Solids	126000	116000	108000	111000	109000			124000																																
0	1	2000	µg/L	Trichlorofluoromethane	0.62	0.47	0.25	0.29				0.34	0.48																															
0	5	500	µg/L	Xylenes (Total)			1.2	0.79																																				

Facility Permit	34-12

Old Salisbury Road Landfill (C&D)

Historic Detections

Highlighted cells are at or above the current standard. Blank cells indicate either NS or ND.

MCL SWSL	MCL 2L	units	Value / Row Labels	May-14	Nov-13	May-13	Nov-12	Apr-12	Dec-11	Nov-11	Jun-11	May-11	Nov-10	Apr-10	Mar-10	Sep-09	Mar-09	Dec-08	Mar-08	Nov-07	Apr-07	Nov-06	Apr-06	Nov-05	Jun-05	Nov-04	Aug-04	May-04	Nov-03	May-03	Dec-02	Apr-02	Nov-01	Jul-01	Dec-00	Jun-00	Nov-99	Jun-99	Nov-98	May-98	Oct-97	May-97	Oct-96	Jan-96
1			MW-8																																									
0	100	6000	µg/L	Acetone								3.8																																
0	NE	NE	µg/L	Alkalinity, Total as CaCO3	21300	19700	22800	19500	20100		19600																																
0	10	10	µg/L	Arsenic																								6					36	46	89									
0	100	700	µg/L	Barium	30.7	25.4	28.5	26.9	27.5		24.4		27.3	26.8		28.8	27.2	25	32.8	24	26.6	30	29	29	26	25	30		480	52	77	48	150	2700	2600	4200									
0	NE	250000	µg/L	Chloride	1800	1510	2070	1860																																				
0	10	10	µg/L	Chromium								0.96	0.62		1.4		0.78	0.97	0.42							2.4		28	3.2	3.8	2	23	94	92	240									
0	300	300	µg/L	Iron		136	61.5	60.8	57.8		151																																	
0	10	15	µg/L	Lead																								41		6.7			150	210	400									
0	50	50	µg/L	Manganese		6.8					7																																	
0	0.2	1	µg/L	Mercury															0.1					0.26																				
0	10	20	µg/L	Silver								0.1				0.16		0.15	0.13	0.16																								
0	NE	NE	µg/L	Sodium	6160	5580	6120	6980	6250		5410																																	
0	250000	250000	µg/L	Sulfate			2100																																					
0	NE	500000	µg/L	Total Dissolved Solids	50000	61000	51000	58000	52000		81000																																	
0	10	1000	µg/L	Zinc				15.2			45.4																																	
1			MW-9																																									
0	NE	NE	µg/L	Alkalinity, Total as CaCO3	18300	18400	21700	17200	20100		17400																																	
0	100	700	µg/L	Barium	168	170	174	142	142		141		153	157		134	128	173	124	124	117	140	140	100	100	85	95	240																
0	15	3	µg/L	Bis(2-ethylhexyl)phthalate				13																																				
0	NE	250000	µg/L	Chloride	3610	3950	4300	3560																																				
0	10	10	µg/L	Chromium													7.6	0.47									14																	
0	5	1000	µg/L	Dichlorodifluoromethane		0.28		0.28																																				
0	300	300	µg/L	Iron		136	867																																					
0	10	15	µg/L	Lead																							14																	
0	50	50	µg/L	Manganese		6.9	16.6																																					
0	10	20	µg/L	Silver								0.43			0.27	0.32	0.18	0.36	0.22	0.32																								
0	NE	NE	µg/L	Sodium	12400	13500	12900	13100	12600		11900																																	
0	250000	250000	µg/L	Sulfate			3200																																					
0	NE	500000	µg/L	Total Dissolved Solids	107000	124000	100000	118000	123000		128000																																	
0	1	2000	µg/L	Trichlorofluoromethane	0.47	0.69	0.36	0.49			0.42		0.26																															
1			MW-10																																									
0	NE	NE	µg/L	Alkalinity, Total as CaCO3	31400	26700	32100	25500	413000		21700																																	
0	100	700	µg/L	Barium	132	112	115	101	96.5		91.3		80.7	38.9		46.6	39.1	38.9	41.9	42	40.8	52	71	48	46	82	55	98																
0	100	700	µg/L	Carbon Disulfide													13																											
0	NE	250000	µg/L	Chloride	1820	1790	2040	1800																																				
0	10	10	µg/L	Chromium									0.63					0.65									13																	
0	300	300	µg/L	Iron		84.3	92.8	218	55.1		424																																	
0	10	15	µg/L	Lead																							6.8																	
0	50	50	µg/L	Manganese	10.9	7.9		5.1			6.8																																	
0	0.2	1	µg/L	Mercury	0.51																			0.2																				
0	10	20	µg/L	Selenium																							6.2																	
0	10	20	µg/L	Silver								0.12				0.19																												
0	NE	NE	µg/L	Sodium				5280																																				
0	NS	NS	µg/L	Tetrahydrofuran	18.6	5																																						
0	NE	500000	µg/L	Total Dissolved Solids	63000	66000	46000	63000	49000		89000																																	
0	1	2000	µg/L	Trichlorofluoromethane	0.2	0.33	0.38	0.49			0.68		0.52																															
1			MW-11																																									
0	0.1	0.1	µg/L	4,4'-DDT					0.05																																			
0	NE	NE	µg/L	Alkalinity, Total as CaCO3	175000	161000	189000	153000	120000		122000																																	
0	100	700	µg/L	Barium	94.3	87.8	87	76.8	70.3		57.5		56.2	48.1		37.6	31.8	28.4	28.6	29.2	23.1	25	24	26	27	24	28	47																	
0	10	200	µg/L	Benzo(g,h,i)perylene					1.3																																			
0	NE	250000	µg/L	Chloride	12400	14000	14200	12900	10800		8480																																	
0	10	10	µg/L	Chromium																						3.9	3.3																	
0	10	1000	µg/L	Cobalt		47.5	65.1																																					
0	300	300	µg/L	Iron	33400	32100	30700	29000	26300		23000																																	
0	50	50	µg/L	Manganese	1960	1920	1890	1740	1580		1250																																	
0	10	20	µg/L	Selenium														8.7																										
0	10	20	µg/L	Silver								1.2			0.48	0.5		0.79	0.41	0.39																								
0	NE	NE	µg/L	Sodium	8490	9070	8290	8770	7460		6480																																	
0	250000	250000	µg/L	Sulfate	10700	10400	11000	10400	9700		7590																																	
0	NS	NS	µg/L	Tetrahydrofuran					4.4				12.1																															
0	NE	500000	µg/L	Total Dissolved Solids	207000	236000	228000	220000	161000		165000																																	
0	10	1000	µg/L	Zinc				92																																				

Facility Permit	34-12

Old Salisbury Road Landfill (C&D)

Historic Detections

Highlighted cells are at or above the current standard. Blank cells indicate either NS or ND.

MCL SWSL	MCL 2L	units	Value / Row Labels	May-14	Nov-13	May-13	Nov-12	Apr-12	Dec-11	Nov-11	Jun-11	May-11	Nov-10	Apr-10	Mar-10	Sep-09	Mar-09	Dec-08	Mar-08	Nov-07	Apr-07	Nov-06	Apr-06	Nov-05	Jun-05	Nov-04	Aug-04	May-04	Nov-03	May-03	Dec-02	Apr-02	Nov-01	Jul-01	Dec-00	Jun-00	Nov-99	Jun-99	Nov-98	May-98	Oct-97	May-97	Oct-96	Jan-96
1			MW-12																																									
0	NE	NE	µg/L Alkalinity, Total as CaCO3	45500	39300	29600	40200	37200		40200																																		
0	10	10	µg/L Arsenic												2.7																													
0	100	700	µg/L Barium	61.1	47.6	50.1	50.5	46.9		60.1		39.1	44.9		40.6	38	34.5	57.9	60.5	47.3	31	66	55	77	50	77	74																	
0	10	200	µg/L Benzo(g,h,i)perylene					1.2																																				
0	NE	250000	µg/L Chloride	6180	6230	5820	4900	8200		8030																																		
0	1	3	µg/L Chloromethane									0.21																																
0	10	10	µg/L Chromium									2.6	1.1		2.4		2		1.8				4			2.1																		
0	10	0.05	µg/L Indeno(1,2,3-cd)pyrene					1.2																																				
0	300	300	µg/L Iron	348	253	324	1430	539		3030																																		
0	50	50	µg/L Manganese	14.6	86.1	13.2	33.6	15.7		58.3																																		
0	10	20	µg/L Silver									0.7			0.2	0.39		0.37	0.15	0.26																								
0	NE	NE	µg/L Sodium	11000	10500	11100	11000	11600		9980																																		
0	250000	250000	µg/L Sulfate	48000	27400	51800	24200	20500		15300																																		
0	NE	500000	µg/L Total Dissolved Solids	149000	126000	138000	127000	130000		124000																																		
0	1	2000	µg/L Trichlorofluoromethane	0.32																																								
0	10	1000	µg/L Zinc				30.8																																					
1			MW-13																																									
0	5	350	µg/L 1,1-Dichloroethene													19.8																												
0	NE	NE	µg/L Alkalinity, Total as CaCO3	46400	43200	58700	43900	52200		44500																																		
0	100	700	µg/L Barium	77.1	106	176	279	144		139		164	176		126	117	79.2	88.7	64.6	85.6	79	62	65	59	46	57	160																	
0	10	0.005	µg/L Benzo(a)pyrene					1.1																																				
0	10	0.05	µg/L Benzo(b)fluoranthene					1																																				
0	10	200	µg/L Benzo(g,h,i)perylene					1.5																																				
0	1	4000	µg/L Beryllium			2.4	3.5	1.4		2.3																																		
0	NE	250000	µg/L Chloride	3880	5700	3820	6150	5380																																				
0	10	10	µg/L Chromium			7.1	11.8			5.5		3.9	4		1.7	0.8	1.6	2.2	1.1				2			4.8	9.2																	
0	10	1000	µg/L Cobalt			6.6																																						
0	10	1000	µg/L Copper			7.6	6.9			6.1																																		
0	10	0.005	µg/L Dibenz(a,h)anthracene					1.2																																				
0	10	0.05	µg/L Indeno(1,2,3-cd)pyrene					1.5																																				
0	300	300	µg/L Iron	232	1330	8610	11300	3760		6140																																		
0	10	15	µg/L Lead			6.5	7.5			6.4			4.3														11																	
0	50	50	µg/L Manganese	34.1	48.8	158	301	91.5		140																																		
0	10	20	µg/L Silver									0.72			0.4	0.41		0.44	0.21																									
0	NE	NE	µg/L Sodium	11200	11700	19100	14600	16700		20200																																		
0	250000	250000	µg/L Sulfate	8680	9360	7820	9770	9420		9460																																		
0	1000	NE	µg/L Sulfide				106	178																																				
0	NS	NS	µg/L Tetrahydrofuran									18.6																																
0	NE	500000	µg/L Total Dissolved Solids	113000	114000	87000	144000	110000		159000																																		
0	1	2000	µg/L Trichlorofluoromethane													18.6																												
0	25	300	µg/L Vanadium			14.6	18.7	7.2		10.8																																		
0	10	1000	µg/L Zinc	17.2		37.3	51	20		31.6																																		
1			MW-14																																									
0	NE	NE	µg/L Alkalinity, Total as CaCO3	37400	32800	35600	28900	30100		30400																																		
0	10	10	µg/L Arsenic															7.3				8.3																						
0	100	700	µg/L Barium	163	140	254	160	122		143		125	129		130	242	97.9	583	186	130	210	460	250	120	69	66	170																	
0	15	3	µg/L Bis(2-ethylhexyl)phthalate				9.8																																					
0	NE	250000	µg/L Chloride	3630	4100	4290	4790																																					
0	1	3	µg/L Chloromethane									0.24																																
0	10	10	µg/L Chromium			6.6	6					1.8	2.3		3	10.7	0.4	40.2	4.1	1.7	6.6	35	15	3.9			3.2																	
0	10	1000	µg/L Copper			9.5	5.8																																					
0	10	70	µg/L Cyanide		6																																							
0	300	300	µg/L Iron	142	915	5820	4520	1140		2050																																		
0	10	15	µg/L Lead													7.2		26.2			5.2	23	13	5.9			8																	
0	50	50	µg/L Manganese	40.2	110	240	251	170		71																																		
0	0.2	1	µg/L Mercury																	0.098				0.44																				
0	50	100	µg/L Nickel			8.6	13.7	12.5																																				
0	10	20	µg/L Silver									0.74			0.39	0.54		0.46	0.56	0.48																								
0	NE	NE	µg/L Sodium	12800	12300	13500	15000	14300		12700																																		
0	NE	500000	µg/L Total Dissolved Solids	124000	123000	102000	127000	145000		138000																																		
0	1	2000	µg/L Trichlorofluoromethane	0.34																																								
0	25	300	µg/L Vanadium			9.9	8																																					
0	10	1000	µg/L Zinc	11.7		27.4	23			12																																		

Facility Permit	34-12

Old Salisbury Road Landfill (C&D)

Historic Detections

Highlighted cells are at or above the current standard. Blank cells indicate either NS or ND.

MCL SWSL	MCL 2L	units	Value / Row Labels	May-14	Nov-13	May-13	Nov-12	Apr-12	Dec-11	Nov-11	Jun-11	May-11	Nov-10	Apr-10	Mar-10	Sep-09	Mar-09	Dec-08	Mar-08	Nov-07	Apr-07	Nov-06	Apr-06	Nov-05	Jun-05	Nov-04	Aug-04	May-04	Nov-03	May-03	Dec-02	Apr-02	Nov-01	Jul-01	Dec-00	Jun-00	Nov-99	Jun-99	Nov-98	May-98	Oct-97	May-97	Oct-96	Jan-96
1			MW-15																																									
0	5	350	µg/L	1,1-Dichloroethene					3.1																																			
0	0.1	0.1	µg/L	4,4'-DDD				0.062																																				
0	NE	NE	µg/L	Alkalinity, Total as CaCO3	96600	64300	78900	77600	75300																																			
0	10	10	µg/L	Arsenic				7.1	5.7																																			
0	100	700	µg/L	Barium	8.6	23.8	59.6	143	115																																			
0	NE	250000	µg/L	Chloride	83400	124000	124000	143000	60600																																			
0	5	70	µg/L	Chloroform	0.49	0.77	0.63	0.49	1.4																																			
0	10	10	µg/L	Chromium				6.7	7.2																																			
0	10	1000	µg/L	Copper				10.5																																				
0	10	70	µg/L	Cyanide		5.2																																						
0	300	300	µg/L	Iron	292	239	4140	12300	10000																																			
0	10	15	µg/L	Lead				9.5	7.6																																			
0	50	50	µg/L	Manganese	34.7	14	160	317	327																																			
0	NE	NE	µg/L	Sodium	24200	25300	26700	21200	16300																																			
0	250000	250000	µg/L	Sulfate	59500	53200	41200	35600	25800																																			
0	1000	NE	µg/L	Sulfide				100																																				
0	NS	NS	µg/L	Tetrahydrofuran	21.4	14.7	7.4	6.3																																				
0	NE	500000	µg/L	Total Dissolved Solids	373000	410000	442000	298000	260000																																			
0	1	2000	µg/L	Trichlorofluoromethane	5.3	7.6	4.3	8.1	7.3																																			
0	25	300	µg/L	Vanadium			8.6	28.6	23.4																																			
0	10	1000	µg/L	Zinc		17.1	22.7	45.6	51.1																																			
1			SW-1																																									
0	100	6000	µg/L	Acetone						2.2										22.7																								
0	NE	NE	µg/L	Alkalinity, Total as CaCO3	45200	72700	58000	79700	47200	19600																																		
0	10	10	µg/L	Arsenic											3.7										23		20																	
0	100	700	µg/L	Barium	65.8	71.1	58.9	63.3	70.4	42.5		69.9	61.9		92.5	77.7	45.6	78.2	79.7	70.3	88	54	120	73	750	53	500																	
0	NE	250000	µg/L	Chloride	23700	18100	20600	19700	25300	19100																																		
0	10	10	µg/L	Chromium													0.61	0.67	1.2	0.61			4.2		52	3.2	36																	
0	10	1000	µg/L	Cobalt	9		14.6																																					
0	0.1	2	µg/L	Endrin				0.08																																				
0	300	300	µg/L	Iron	8210	22800	6900	25500	11400	2290																																		
0	10	15	µg/L	Lead												17.5									57		38																	
0	50	50	µg/L	Manganese	749	1530	855	1720	1040	130																																		
0	0.2	1	µg/L	Mercury																				1.1																				
0	10	20	µg/L	Silver								0.4			0.28	0.62		0.39	0.37	0.51																								
0	NE	NE	µg/L	Sodium	14500	13000	12400	15500	14300	9390																																		
0	250000	250000	µg/L	Sulfate	2820	2190	2700	2090																																				
0	NE	500000	µg/L	Total Dissolved Solids	126000	125000	104000	131000	98000	140000																																		
1			SW-2																																									
0	20	NE	µg/L	3,3'-Dichlorobenzidine					3.6																																			
0	10	NE	µg/L	3-Methylcholanthrene					2.9																																			
0	100	6000	µg/L	Acetone						4																																		
0	NE	NE	µg/L	Alkalinity, Total as CaCO3	41300	48900	48600	44700	44200	26100																																		
0	10	10	µg/L	Arsenic																	5.5																							
0	100	700	µg/L	Barium	59.7	50.1	51.7	46.5	53.4	81		49.2	57.6		59.4	52.1	46.3	50.6	50.6	49.4	300	44	150	51	47	65	63																	
0	10	0.05	µg/L	Benzo(a)anthracene					1.1																																			
0	10	0.005	µg/L	Benzo(a)pyrene					2.5																																			
0	10	0.05	µg/L	Benzo(b)fluoranthene					2.8																																			
0	10	200	µg/L	Benzo(g,h,i)perylene					1.8																																			
0	10	0.5	µg/L	Benzo(k)fluoranthene					2.5																																			
0	15	3	µg/L	Bis(2-ethylhexyl)phthalate					1.1																																			
0	NE	250000	µg/L	Chloride	10700	11600	10800	10300	11300	10900																																		
0	10	10	µg/L	Chromium													0.42				17		4.7																					
0	10	5	µg/L	Chrysene					1.1																																			
0	10	0.005	µg/L	Dibenz(a,h)anthracene					2.1																																			
0	10	0.05	µg/L	Indeno(1,2,3-cd)pyrene					2.2																																			
0	300	300	µg/L	Iron	2130	3360	1400	1280	1720	4170																																		
0	10	15	µg/L	Lead																	11		7.6																					
0	50	50	µg/L	Manganese	219	152	153	106	157	280																																		
0	0.2	1	µg/L	Mercury												0.08																												
0	10	20	µg/L	Selenium																	21																							
0	10	20	µg/L	Silver								0.2			0.2	0.36		0.5	0.26	0.26																								
0	NE	NE	µg/L	Sodium	9840	10300	9160	9990	9890	8650																																		

Facility Permit	34-12

Old Salisbury Road Landfill (C&D)

Historic Detections

Highlighted cells are at or above the current standard. Blank cells indicate either NS or ND.

MCL SWSL	MCL 2L	units	Value / Row Labels	May-14	Nov-13	May-13	Nov-12	Apr-12	Dec-11	Nov-11	Jun-11	May-11	Nov-10	Apr-10	Mar-10	Sep-09	Mar-09	Dec-08	Mar-08	Nov-07	Apr-07	Nov-06	Apr-06	Nov-05	Jun-05	Nov-04	Aug-04	May-04	Nov-03	May-03	Dec-02	Apr-02	Nov-01	Jul-01	Dec-00	Jun-00	Nov-99	Jun-99	Nov-98	May-98	Oct-97	May-97	Oct-96	Jan-96
0	250000	250000	µg/L	Sulfate	12700	5490	5090	4240	6180		38300																																	
0	NE	500000	µg/L	Total Dissolved Solids	120000	114000	91000	101000	101000		189000																																	
0	25	300	µg/L	Vanadium							7.5																																	
0	10	1000	µg/L	Zinc							13.5																																	
1				SW-3																																								
0	10	40	µg/L	3&4-Methylphenol(m&p Cresol)		3.6																																						
0	0.1	0.1	µg/L	4,4'-DDD				0.079																																				
0	0.1	0.1	µg/L	4,4'-DDT					0.09																																			
0	NE	NE	µg/L	Alkalinity, Total as CaCO3	259000	516000	293000	317000	221000	160000																																		
0	100	700	µg/L	Barium	181	348	185	315	179	123																																		
0	1	1	µg/L	Benzene	0.32	0.88		0.34	0.25																																			
0	NE	250000	µg/L	Chloride	16900	34800	20000	24300	22800	20900																																		
0	10	1000	µg/L	Cobalt	14.8	14.4	25.3	13	5.5																																			
0	0.1	42	µg/L	Endosulfan II				0.071	0.085																																			
0	300	300	µg/L	Iron	8890	11700	9560	16500	9370	3230																																		
0	50	50	µg/L	Manganese	4320	8930	3990	5200	3760	1890																																		
0	50	100	µg/L	Nickel		12																																						
0	NE	NE	µg/L	Sodium	29900	41100	25000	33800	21300	18500																																		
0	250000	250000	µg/L	Sulfate	26300	62500	20100	36400	26400	19800																																		
0	NS	NS	µg/L	Tetrahydrofuran	9.7	18.9	5.1	4.8	4.5																																			
0	NE	500000	µg/L	Total Dissolved Solids	319000	705000	327000	432000	329000	237000																																		
0	25	300	µg/L	Vanadium		9.8																																						
0	10	1000	µg/L	Zinc		10.8																																						
1				SW-4																																								
0	5	350	µg/L	1,1-Dichloroethene						0.58																																		
0	0.1	0.1	µg/L	4,4'-DDD				0.11	0.062																																			
0	0.1	0.1	µg/L	4,4'-DDT					0.054																																			
0	NE	NE	µg/L	Alkalinity, Total as CaCO3	158000	152000	147000	220000	158000	131000																																		
0	100	700	µg/L	Barium	126	101	106	151	136	105																																		
0	NE	250000	µg/L	Chloride	30800	31000	26900	28800	30900	23600																																		
0	5	70	µg/L	Chloroform					0.97																																			
0	10	1000	µg/L	Cobalt			10.4																																					
0	0.1	42	µg/L	Endosulfan II					0.066																																			
0	0.1	2	µg/L	Endrin aldehyde					0.061																																			
0	300	300	µg/L	Iron	2520	1790	4180	1640	2140	1060																																		
0	50	50	µg/L	Manganese	2250	1080	1650	2430	2420	1290																																		
0	NE	NE	µg/L	Sodium	24400	20100	18200	29000	20000	17900																																		
0	250000	250000	µg/L	Sulfate	23500	23000	13200	32300	23600	19500																																		
0	NS	NS	µg/L	Tetrahydrofuran	4.4																																							
0	NE	500000	µg/L	Total Dissolved Solids	257000	270000	255000	349000	272000	234000																																		
0	1	2000	µg/L	Trichlorofluoromethane		0.25			1.4																																			

Summary of Detected Constituents

Facility Permit	34-12	Old Salisbury Road Landfill (C&D)
Qualifier	(Multiple Items)	

MCL SWSL	MCL 2L	Units	Concentration	MW-1R	MW-2R	MW-3R	MW-4R	MW-5R	MW-6R	MW-7	MW-8
			May-14								
			EPA 300.0								
			µg/L								
250000	250000	µg/L	Sulfate		136000	4230	85200	8060			
			EPA 6010								
			µg/L								
6	1000	µg/L	Antimony		5.4						
10	10	µg/L	Arsenic			8.9					
100	700	µg/L	Barium	124	324	205	264	54.4		90.8	30.7
10	10	µg/L	Chromium					5.6			
10	1000	µg/L	Cobalt		22.8		46.6				
300	300	µg/L	Iron	52.9	1650	38200		123			
50	50	µg/L	Manganese		7950	9260	641	6.1		15.5	
50	100	µg/L	Nickel		20.6						
10	20	µg/L	Selenium		16.5		11.5				
NE	NE	µg/L	Sodium	10800	59700		39700	13600		14200	6160
10	1000	µg/L	Zinc					11.4			
			EPA 7470								
			µg/L								
0.2	1	µg/L	Mercury								
			EPA 8260								
			µg/L								
5	6	µg/L	1,1-Dichloroethane		0.83					0.81	
1	1	µg/L	Benzene		1.8		0.28				
5	70	µg/L	Chloroform								
5	70	µg/L	cis-1,2-Dichloroethene		0.38					0.37	
1	5	µg/L	Methylene chloride		3.7						
NE	NE	µg/L	o-Xylene		0.31						
1	0.7	µg/L	Tetrachloroethene		1.8						
NS	NS	µg/L	Tetrahydrofuran		72.6		11.8			5.2	
1	3	µg/L	Trichloroethene		0.71						
1	2000	µg/L	Trichlorofluoromethane		3.7					0.62	
			SM 2320B								
			µg/L								
NE	NE	µg/L	Alkalinity, Total as CaCO3	30000	344000	155000	222000	31900		51900	21300
			SM 2540C								
			µg/L								
NE	500000	µg/L	Total Dissolved Solids	91000	549000	187000	445000	167000		126000	50000
			SM 4500-Cl-E								
			µg/L								
NE	250000	µg/L	Chloride	5600	50500	3260	29700	13900		3600	1800
			Field								
			feet								
			Static Water Level	70.78	14.24	37.86	14.47	20.22		74.12	26.82
			Total Well Depth	60	21	27	20	30		37.05	27
			mg/l								
			Oxygen, Dissolved	5.3	4.8	6.3	6.2	8.6		3.8	8.4
			NTU								
			Turbidity	3	11	6	17	10		6	8
			Std. Units								
			Field pH	5.6	5.8	6	5.7	5.7		5.3	5
			mV								
			REDOX	411	243	146	374	389		363	389
			µmhos/cm								
			Field Specific Conductance	137	1040	367	715	194		171	64
			°C								
			Field Temperature	18.4	19.6	18.7	14.8	14.7		17.2	16

Summary of Detected Constituents

MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	SW-1	SW-2	SW-3	SW-4	Trip Blank	Equipment Blank
		10700	48000	8680		59500	2820	12700	26300	23500		
168	132	94.3	61.1	77.1	163	8.6	65.8	59.7	181	126		
							9		14.8			
		33400	348	232	142	292	8210	2130	8890	2520		
	10.9	1960	14.6	34.1	40.2	34.7	749	219	4320	2250		
12400		8490	11000	11200	12800	24200	14500	9840	29900	24400		
				17.2	11.7							
	0.51											
									0.32			
						0.49						
											1.1	
	18.6					21.4			9.7	4.4		
0.47	0.2		0.32		0.34	5.3						
18300	31400	175000	45500	46400	37400	96600	45200	41300	259000	2E+05		
107000	63000	207000	149000	113000	124000	373000	126000	120000	319000	3E+05		
3610	1820	12400	6180	3880	3630	83400	23700	10700	16900	30800		
52.72	11.34	8.55	9.77	17.91	103.61	76.95						
60	21	20	15.58	20	60	50.85						
8.7	8.3	7.5	8.4	6.8	8.1	5.4	5.5	7.3	2.9	7		
5	4	22	15	147	118	50	51	23	14	33		
5.2	5	6	5.9	5.6	5.5	6.3	6.4	6.8	6.5	6.8		
436	436	27	315	367	437	406	284	252	127	262		
155	86	430	243	149	156	623	205	183	649	478		
17.7	15	14.4	15	16.6	17.7	17.8	21.2	19.7	18.9	19.3		

Summary of Detected Constituents

Facility Permit 34-12 Old Salisbury Road Landfill (C&D)
Qualifier (Multiple Items)

MCL SWSL	MCL 2L	Units	Concentration	MW-1R	MW-2R	MW-3R	MW-4R	MW-5R	MW-6R	MW-7	MW-8
			November-13								
			EPA 300.0								
			µg/L								
250000	250000	µg/L	Sulfate		128000	3400	113000	8310			
			EPA 6010								
			µg/L								
100	700	µg/L	Barium	106	311	201	296	53.9		98.8	25.4
10	1000	µg/L	Cobalt		19.2	53.5	49.4				
300	300	µg/L	Iron		766	31300	89.5				136
50	50	µg/L	Manganese		8710	9990	688			19.4	6.8
50	100	µg/L	Nickel		27.1		5.3				
NE	NE	µg/L	Sodium	9940	46200		42600	13800		13000	5580
25	300	µg/L	Vanadium		5.5						
10	1000	µg/L	Zinc		12.2						
			EPA 8151								
			µg/L								
2	50	µg/L	2,4,5-TP (Silvex)		0.23						
2	70	µg/L	2,4-D		1.1						
			EPA 8260								
			µg/L								
5	6	µg/L	1,1-Dichloroethane		1.3					0.9	
1	1	µg/L	Benzene		1.9		0.27				
5	70	µg/L	Chloroform								
5	70	µg/L	cis-1,2-Dichloroethene		0.41					0.54	
5	1000	µg/L	Dichlorodifluoromethane								
1	5	µg/L	Methylene chloride		3						
10	6	µg/L	Naphthalene		0.86						
NE	NE	µg/L	o-Xylene		0.54						
1	0.7	µg/L	Tetrachloroethene		2.2						
NS	NS	µg/L	Tetrahydrofuran		99.6		11.7			13.7	
1	3	µg/L	Trichloroethene		0.89						
1	2000	µg/L	Trichlorofluoromethane		12					0.47	
1	0.03	µg/L	Vinyl chloride		0.95						
			EPA 8270								
			µg/L								
10	40	µg/L	3&4-Methylphenol(m&p Cre								
			SM 2320B								
			µg/L								
NE	NE	µg/L	Alkalinity, Total as CaCO3	28100	349000	155000	224000	31700		51600	19700
			SM 2540C								
			µg/L								
NE	500000	µg/L	Total Dissolved Solids	103000	654000	193000	496000	154000		116000	61000
			SM 4500-Cl-E								
			µg/L								
NE	250000	µg/L	Chloride	5880	56700	3620	36500	15200		5160	1510
			SM 4500-CN-E								
			µg/L								
10	70	µg/L	Cyanide			7.1	5.9				
			Field								
			feet								
			Static Water Level	71.87	16.65	45.08	18.63	22.73		76.44	36.08
			Total Well Depth	60	21	27	20	30		48	27
			mg/l								
			Oxygen, Dissolved	8.7	0.9	0.7	7.5	5.6		0.5	10.2
			NTU								
			Turbidity	1	3	1	12	3		2	5
			Std. Units								
			Field pH	5.6	5.6	5.9	5.8	5.9		5.5	5.4
			mV								
			REDOX	228	68	-8	207	239		200	357
			µmhos/cm								
			Field Specific Conductance	104	840	316	678	168		144	48
			°C								
			Field Temperature	18.3	13.8	15.9	17.2	17.4		16.5	15.1

Summary of Detected Constituents

MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	SW-1	SW-2	SW-3	SW-4	Trip Blank	Equipment Blank
		10400	27400	9360		53200	2190	5490	62500	23000		
170	112	87.8	47.6	106	140	23.8	71.1	50.1	348	101		
		47.5							14.4			
136	84.3	32100	253	1330	915	239	22800	3360	11700	1790		
6.9	7.9	1920	86.1	48.8	110	14	1530	152	8930	1080		
									12			
13500		9070	10500	11700	12300	25300	13000	10300	41100	20100		
									9.8			
						17.1			10.8			
									0.88			
						0.77						
0.28												
	5					14.7			18.9			
0.69	0.33					7.6				0.25		
									3.6			
18400	26700	161000	39300	43200	32800	64300	72700	48900	516000	2E+05		
124000	66000	236000	126000	114000	123000	410000	125000	114000	705000	3E+05		
3950	1790	14000	6230	5700	4100	124000	18100	11600	34800	31000		
					6	5.2						
106.03	24.77	9.1	10.56	18.83	104.66	79.28						
60	21	20	15.58	20	60	50.85						
9.2	2.2	0.5	6.5	1.3	6.5	2.8	3	4	2.5	4.3		
11	4	8	9	123	250	21	35	2	57	4		
5.2	5.2	5.9	5.8	5.4	5.4	6.2	6.2	6.7	6.2	6.8		
363	327	-66	189	280	355	241	-31	-12	-15	61		
138	63	385	153	115	123	614	246	134	899	369		
16.3	16.7	16.7	17.1	14.8	16.7	17	13.7	12.7	15.1	12.8		

Summary of Detected Constituents

Facility Permit 34-12 Old Salisbury Road Landfill (C&D)
Qualifier (Multiple Items)

MCL SWSL	MCL 2L	Units	Concentration	MW-1R	MW-2R	MW-3R	MW-4R	MW-5R	MW-6R	MW-7	MW-8
			May-13								
			EPA 300.0								
			µg/L								
250000	250000	µg/L	Sulfate		115000	5070	97600	11200			2100
			EPA 6010								
			µg/L								
100	700	µg/L	Barium	109	324	216	375	57.7		115	28.5
1	4000	µg/L	Beryllium								
10	10	µg/L	Chromium								
10	1000	µg/L	Cobalt		18.2	64.1	35.3				
10	1000	µg/L	Copper								
300	300	µg/L	Iron		877	34100	158	126			61.5
10	15	µg/L	Lead								
50	50	µg/L	Manganese		7880	9630	496			24.9	
50	100	µg/L	Nickel		20.7						
NE	NE	µg/L	Sodium	9080	45700		42600	13000		14300	6120
100	2000000	µg/L	Tin			5.8					
25	300	µg/L	Vanadium								
10	1000	µg/L	Zinc		21.1	10.5	13.6				
			EPA 8260								
			µg/L								
5	6	µg/L	1,1-Dichloroethane		1.2					0.84	
50	NE	µg/L	2-Hexanone		0.48						
100	6000	µg/L	Acetone		20.3						
1	1	µg/L	Benzene		1.4						
5	70	µg/L	Chloroform								
5	70	µg/L	cis-1,2-Dichloroethene		0.26					0.72	
5	500	µg/L	m&p-Xylene							0.96	
1	5	µg/L	Methylene chloride		4.2						
10	6	µg/L	Naphthalene		1.3						
NE	NE	µg/L	o-Xylene		0.54					0.27	
1	0.7	µg/L	Tetrachloroethene		1.5						
NS	NS	µg/L	Tetrahydrofuran		111		8.5			24.2	
1	3	µg/L	Trichloroethene		0.68						
1	2000	µg/L	Trichlorofluoromethane		12.1					0.25	
5	500	µg/L	Xylenes (Total)							1.2	
			SM 2320B								
			µg/L								
NE	NE	µg/L	Alkalinity, Total as CaCO3	29800	363000	175000	203000	34800		63500	22800
			SM 2540C								
			µg/L								
NE	500000	µg/L	Total Dissolved Solids	84000	589000	175000	413000	131000		108000	51000
			SM 4500-Cl-E								
			µg/L								
NE	250000	µg/L	Chloride	5910	50000	3860	33700	16200		5340	2070
			SM 4500-CN-E								
			µg/L								
10	70	µg/L	Cyanide			8.1				5	
			Field								
			feet								
			Static Water Level	73	15.54	21.94	17.53	21.44		38.62	31.43
			Total Well Depth	60	21	27	20	30		48	27
			mg/l								
			Oxygen, Dissolved	8.3	1.9	6	2.7	7.1		0.9	7.2
			NTU								
			Turbidity	1	1	1	36	1		1	1
			Std. Units								
			Field pH	5.6	5.8	5.8	5.6	6		5.3	5.5
			mV								
			REDOX	263	10	21	246	274		211	260
			µmhos/cm								
			Field Specific Conductance	68	802	217	382	116		106	31
			°C								
			Field Temperature	20.9	19.7	15.7	15.6	15.2		16.3	17.5

Summary of Detected Constituents

MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	SW-1	SW-2	SW-3	SW-4	Trip Blank	Equipment Blank
3200		11000	51800	7820		41200	2700	5090	20100	13200		
174	115	87	50.1	176	254	59.6	58.9	51.7	185	106		
				2.4								
				7.1	6.6							
		65.1		6.6			14.6		25.3	10.4		
				7.6	9.5							
867	92.8	30700	324	8610	5820	4140	6900	1400	9560	4180		
				6.5								
16.6		1890	13.2	158	240	160	855	153	3990	1650		
					8.6							
12900		8290	11100	19100	13500	26700	12400	9160	25000	18200		
				14.6	9.9	8.6						
				37.3	27.4	22.7						
						0.63						
						7.4			5.1			
0.36	0.38					4.3						
21700	32100	189000	29600	58700	35600	78900	58000	48600	293000	1E+05		
100000	46000	228000	138000	87000	102000	442000	104000	91000	327000	3E+05		
4300	2040	14200	5820	3820	4290	124000	20600	10800	20000	26900		
106.24	23.65	8.13	9.59	17.62	104.48	78.61						
60	21	20	15.58	20	60	50.85						
7.4	3.1	6.4	9.3	1.3	6.4	2.5	5	9.5	1.9	5.8		
44	1	6	5	587	446	190	45	11	13	15		
5	5.2	6.2	5.8	5.6	5.5	6.1	6.4	7	6.3	6.9		
282	267	-22	185	204	254	224	-13	-10	-53	-31		
88	43	400	197	136	81	403	208	144	575	367		
18.1	16.3	14.7	14.7	16.5	18.2	17.9	22.4	23	22.4	23.3		

Summary of Detected Constituents

Facility Permit 34-12 Old Salisbury Road Landfill (C&D)
Qualifier (Multiple Items)

MCL SWSL	MCL 2L	Units	Concentration	MW-1R	MW-2R	MW-3R	MW-4R	MW-5R	MW-6R	MW-7	MW-8
			November-12								
			EPA 300.0								
			µg/L								
250000	250000	µg/L	Sulfate		79500	5420	73600	8400		2090	
			EPA 6010								
			µg/L								
10	10	µg/L	Arsenic								
100	700	µg/L	Barium	91.7	335	173	400	53.4		95.1	26.9
1	4000	µg/L	Beryllium								
10	10	µg/L	Chromium								
10	1000	µg/L	Cobalt		15.2		35.5				
10	1000	µg/L	Copper								
300	300	µg/L	Iron		1730	25300	344	102			60.8
10	15	µg/L	Lead								
50	50	µg/L	Manganese		8400	11600	541			17.4	
50	100	µg/L	Nickel		21.8						
NE	NE	µg/L	Sodium	9180	43400		43600	14500		13900	6980
25	300	µg/L	Vanadium								
10	1000	µg/L	Zinc		24.5						15.2
			EPA 8081								
			µg/L								
0.1	0.1	µg/L	4,4'-DDD								
0.002	0.002	µg/L	Dieldrin							0.11	
0.1	42	µg/L	Endosulfan II				0.12				
0.1	2	µg/L	Endrin		0.27						
0.1	2	µg/L	Endrin aldehyde		0.23						
0.075	0.004	µg/L	Heptachlor epoxide							0.12	
			EPA 8260								
			µg/L								
5	6	µg/L	1,1-Dichloroethane		1.2					1.2	
1	1	µg/L	Benzene		1.3						
10	3000	µg/L	Chloroethane							1.3	
5	70	µg/L	Chloroform		0.16						
5	70	µg/L	cis-1,2-Dichloroethene		0.25					0.62	
5	1000	µg/L	Dichlorodifluoromethane								
1	5	µg/L	Methylene chloride		4.5						
10	6	µg/L	Naphthalene		1.6						
NE	NE	µg/L	o-Xylene		0.63						
1	0.7	µg/L	Tetrachloroethene		1.8						
NS	NS	µg/L	Tetrahydrofuran		93.2		13.5			26	
1	3	µg/L	Trichloroethene		0.77						
1	2000	µg/L	Trichlorofluoromethane		16.9					0.29	
5	500	µg/L	Xylenes (Total)		0.98					0.79	
			EPA 8270								
			µg/L								
10	0.05	µg/L	Benzo(a)anthracene	1.4							
15	3	µg/L	Bis(2-ethylhexyl)phthalate	2.4	1.1			1			
10	5	µg/L	Chrysene	1.5							
			SM 2320B								
			µg/L								
NE	NE	µg/L	Alkalinity, Total as CaCO3	26300	277000	142000	174000	31200		51900	19500
			SM 2540C								
			µg/L								
NE	500000	µg/L	Total Dissolved Solids	95000	564000	172000	435000	157000		111000	58000
			SM 4500-Cl-E								
			µg/L								
NE	250000	µg/L	Chloride	5320	64000	3920	34500	16100		3810	1860
			SM 4500-CN-E								
			µg/L								
10	70	µg/L	Cyanide			9.1					
			SM 4500-S2D								
			µg/L								
1000	NE	µg/L	Sulfide								

Summary of Detected Constituents

MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	SW-1	SW-2	SW-3	SW-4	Trip Blank	Equipment Blank
		10400	24200	9770		35600	2090	4240	36400	32300		
						7.1						
142	101	76.8	50.5	279	160	143	63.3	46.5	315	151		
				3.5								
				11.8	6	6.7						
									13			
				6.9	5.8	10.5						
	218	29000	1430	11300	4520	12300	25500	1280	16500	1640		
				7.5		9.5						
	5.1	1740	33.6	301	251	317	1720	106	5200	2430		
					13.7							
13100	5280	8770	11000	14600	15000	21200	15500	9990	33800	29000		
				18.7	8	28.6						
		92	30.8	51	23	45.6						
						0.062			0.079	0.11		
									0.071			
							0.08					
									0.34			
						0.49						
0.28												
						6.3			4.8			
0.49	0.49					8.1						
13					9.8							
17200	25500	153000	40200	43900	28900	77600	79700	44700	317000	2E+05		
118000	63000	220000	127000	144000	127000	298000	131000	101000	432000	3E+05		
3560	1800	12900	4900	6150	4790	143000	19700	10300	24300	28800		
				106		100						

Summary of Detected Constituents

Facility Permit 34-12 Old Salisbury Road Landfill (C&D)
Qualifier (Multiple Items)

MCL SWSL	MCL 2L	Units	Concentration	MW-1R	MW-2R	MW-3R	MW-4R	MW-5R	MW-6R	MW-7	MW-8
			Field								
			feet								
			Static Water Level	72.24	17.78	45.36	19.26	22.81		77.49	37.56
			Total Well Depth	60	21	27	20	30		48	27
			mg/l								
			Oxygen, Dissolved	5.5	1.5	1.2	2.3	6.4		1.8	9.8
			NTU								
			Turbidity	1	1	25	14	14		7	1
			Std. Units								
			Field pH	5.7	5.8	5.6	5.7	5.8		5.4	5.7
			mV								
			REDOX	236	77	16	181	245		197	260
			µmhos/cm								
			Field Specific Conductance	100	842	283	655	175		147	49
			°C								
			Field Temperature	16	14	15.2	13.3	15.9		14.5	15.6
			April-12								
			EPA 300.0								
			µg/L								
250000	250000	µg/L	Sulfate		95000	6860	98700	7910			
			EPA 6010								
			µg/L								
10	10	µg/L	Arsenic								
100	700	µg/L	Barium	93.8	366	228	407	57.5		100	27.5
1	4000	µg/L	Beryllium								
10	10	µg/L	Chromium					5.2			
10	1000	µg/L	Cobalt		14.8	16.4	21.5				
300	300	µg/L	Iron		3190	41500	145	209			57.8
10	15	µg/L	Lead								
50	50	µg/L	Manganese		8280	9310	370			10.2	
50	100	µg/L	Nickel		22.3						
10	20	µg/L	Silver		5.2						
NE	NE	µg/L	Sodium	9440	38400		40400	14200		13700	6250
25	300	µg/L	Vanadium								
10	1000	µg/L	Zinc		35.2						
			EPA 8081								
			µg/L								
0.1	0.1	µg/L	4,4'-DDD							0.13	
0.1	0.1	µg/L	4,4'-DDT		0.54		0.14				
0.05	2	µg/L	Aldrin		0.12						
0.05	0.006	µg/L	alpha-BHC		0.12						
0.05	0.019	µg/L	beta-BHC							0.1	
0.05	0.019	µg/L	delta-BHC		0.18		0.069				
0.002	0.002	µg/L	Dieldrin							0.081	
0.1	42	µg/L	Endosulfan II								
0.1	2	µg/L	Endrin aldehyde		0.28						
0.05	0.008	µg/L	Heptachlor		0.48						
0.075	0.004	µg/L	Heptachlor epoxide							0.066	
1	40	µg/L	Methoxychlor		0.83						
			EPA 8260								
			µg/L								
5	6	µg/L	1,1-Dichloroethane		1.1					1.2	
5	350	µg/L	1,1-Dichloroethene		36.6						
1	1	µg/L	Benzene		1.5						
5	70	µg/L	Chloroform								
5	70	µg/L	cis-1,2-Dichloroethene		0.33					0.5	
1	5	µg/L	Methylene chloride		3.2						
10	6	µg/L	Naphthalene		1.9						
NE	NE	µg/L	o-Xylene		1						
1	0.7	µg/L	Tetrachloroethene		1.7						
NS	NS	µg/L	Tetrahydrofuran		152		8.8			18.9	
1	3	µg/L	Trichloroethene		0.82						
1	2000	µg/L	Trichlorofluoromethane		20.9						
5	500	µg/L	Xylenes (Total)		1.6						

Summary of Detected Constituents

MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	SW-1	SW-2	SW-3	SW-4	Trip Blank	Equipment Blank
105.53	25.13	8.94	10.71	18.71	104.68	79.91						
60	21	20	15.58	20	60	50.85						
7.3	4.4	0.9	3	2.3	6.4	2.3	8.7	6.7	2.1	6.7		
1	1	25	1	605	329	456	3	1	14	92		
5.5	5	6.1	5.9	5.5	5.5	6.5	6.1	6.7	6.2	6.8		
352	366	-61	150	246	365	160	-21	-21	-26	83		
134	63	354	158	136	137	434	261	135	700	523		
16	16.3	16	16.1	15.8	15.8	15.5	14.7	12.7	10	12.4		
		9700	20500	9420		25800		6180	26400	23600		
						5.7						
142	96.5	70.3	46.9	144	122	115	70.4	53.4	179	136		
				1.4								
						7.2						
									5.5			
	55.1	26300	539	3760	1140	10000	11400	1720	9370	2140		
						7.6						
		1580	15.7	91.5	170	327	1040	157	3760	2420		
					12.5							
12600		7460	11600	16700	14300	16300	14300	9890	21300	20000		
				7.2		23.4						
				20		51.1						
										0.062		
		0.05							0.09	0.054		
									0.085	0.066		
										0.061		
						3.1						
									0.25			
						1.4				0.97		
		4.4							4.5			
						7.3				1.4		

Summary of Detected Constituents

Facility Permit 34-12 Old Salisbury Road Landfill (C&D)
Qualifier (Multiple Items)

MCL SWSL	MCL 2L	Units	Concentration	MW-1R	MW-2R	MW-3R	MW-4R	MW-5R	MW-6R	MW-7	MW-8
			EPA 8270								
			µg/L								
20	NE	µg/L	3,3'-Dichlorobenzidine								
10	NE	µg/L	3-Methylcholanthrene								
10	0.05	µg/L	Benzo(a)anthracene								
10	0.005	µg/L	Benzo(a)pyrene								
10	0.05	µg/L	Benzo(b)fluoranthene								
10	200	µg/L	Benzo(g,h,i)perylene								
10	0.5	µg/L	Benzo(k)fluoranthene								
15	3	µg/L	Bis(2-ethylhexyl)phthalate			5.5					
10	5	µg/L	Chrysene								
10	0.005	µg/L	Dibenz(a,h)anthracene								
10	0.05	µg/L	Indeno(1,2,3-cd)pyrene								
			SM 2320B								
			µg/L								
NE	NE	µg/L	Alkalinity, Total as CaCO3	27100	196000	150000	64300	134000		50200	20100
			SM 2540C								
			µg/L								
NE	500000	µg/L	Total Dissolved Solids	93000	531000	168000	374000	149000		109000	52000
			SM 4500-Cl-E								
			µg/L								
NE	250000	µg/L	Chloride	5350	61500		33200	16100			
			SM 4500-CN-E								
			µg/L								
10	70	µg/L	Cyanide			6.5					
			SM 4500-S2D								
			µg/L								
1000	NE	µg/L	Sulfide								
			Field								
			feet								
			Static Water Level	36.43	7.99	21.01	8.24	10.55		38.23	15.03
			Total Well Depth	60	21	27	20	30		48	27
			mg/l								
			Oxygen, Dissolved	5	2.9	0.8	0.7	8.7		0.8	6.7
			NTU								
			Turbidity	1	4	3	7	2		1	7
			Std. Units								
			Field pH	5.2	5.8	5.8	5.5	5.4		5.5	5.5
			mV								
			REDOX	166	43	-24	156	189		185	176
			µmhos/cm								
			Field Specific Conductance	102	809	329	568	182		149	52
			°C								
			Field Temperature	16.7	15.2	13.8	13	13.9		14.7	14.4
			December-11								
			EPA 300.0								
			µg/L								
250000	250000	µg/L	Sulfate				61800	7020			
			EPA 6010								
			µg/L								
100	700	µg/L	Barium	82.6			328	85.2			
10	10	µg/L	Chromium					14.7			
10	1000	µg/L	Cobalt				15				
300	300	µg/L	Iron				368	3540			
50	50	µg/L	Manganese				257	43.5			
NE	NE	µg/L	Sodium	7670			35300	13300			
25	300	µg/L	Vanadium					13			
10	1000	µg/L	Zinc					15.3			
			EPA 8260								
			µg/L								
5	350	µg/L	1,1-Dichloroethene								
			SM 2320B								
			µg/L								
NE	NE	µg/L	Alkalinity, Total as CaCO3	27500			143000	32800			

Summary of Detected Constituents

MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	SW-1	SW-2	SW-3	SW-4	Trip Blank	Equipment Blank
								3.6				
								2.9				
								1.1				
				1.1				2.5				
				1				2.8				
		1.3	1.2	1.5				1.8				
								2.5				
								1.1				
								1.1				
				1.2				2.1				
			1.2	1.5				2.2				
20100	413000	120000	37200	52200	30100	75300	47200	44200	221000	2E+05		
123000	49000	161000	130000	110000	145000	260000	98000	101000	329000	3E+05		
		10800	8200	5380		60600	25300	11300	22800	30900		
				178								
52.4	11.92	4.13	5.04	8.92	52.03	39.39						
60	21	20	15.58	20	60	50.85						
7.2	4.8	0.5	5.4	1.6	6.9	2.5	7.1	8.5	4.1	7.7		
2	2	14	8	150	32	112	21	16	12	10		
5.2	5.2	5.5	6.1	5.9	5.8	6.4	6.5	7.1	6.4	6.5		
180	196	-78	166	189	177	121	-6	-36	-62	-23		
140	66	325	176	144	150	404	194	142	570	454		
16	14.5	14.2	15.1	15	16.4	16.7	19.9	18	18.5	18.9		
									19800	19500		
									123	105		
									3230	1060		
									1890	1290		
									18500	17900		
										0.58		
									160000	1E+05		

Summary of Detected Constituents

Facility Permit 34-12 Old Salisbury Road Landfill (C&D)
Qualifier (Multiple Items)

MCL SWSL	MCL 2L	Units	Concentration	MW-1R	MW-2R	MW-3R	MW-4R	MW-5R	MW-6R	MW-7	MW-8
			SM 2540C								
			µg/L								
NE	500000	µg/L	Total Dissolved Solids	95000			345000	139000			
			SM 4500-Cl-E								
			µg/L								
NE	250000	µg/L	Chloride				29200	16400			
			Field								
			feet								
			Static Water Level	36.8			9.33	11.2			
			Total Well Depth	60			20	30			
			mg/l								
			Oxygen, Dissolved	5.4			2.3	6.2			
			NTU								
			Turbidity	2			40	90			
			Std. Units								
			Field pH	5.8			5.9	5.7			
			mV								
			REDOX	218			175	200			
			µmhos/cm								
			Field Specific Conductance	97			490	177			
			°C								
			Field Temperature	15.4			12.5	15.2			
			November-11								
			EPA 300.0								
			µg/L								
250000	250000	µg/L	Sulfate		96300						
			EPA 6010								
			µg/L								
100	700	µg/L	Barium		351	237				97.1	24.4
1	4000	µg/L	Beryllium								
10	10	µg/L	Chromium								
10	1000	µg/L	Cobalt		11.8						
10	1000	µg/L	Copper								
300	300	µg/L	Iron		2980	40300					151
10	15	µg/L	Lead								
50	50	µg/L	Manganese		7920	7310				12.7	7
50	100	µg/L	Nickel		20.9						
10	20	µg/L	Silver		5						
NE	NE	µg/L	Sodium		31800					12000	5410
25	300	µg/L	Vanadium								
10	1000	µg/L	Zinc		33.3						45.4
			EPA 8260								
			µg/L								
5	6	µg/L	1,1-Dichloroethane		1.2					1.9	
5	350	µg/L	1,1-Dichloroethene		38.7						
100	6000	µg/L	Acetone		3.7						
1	1	µg/L	Benzene		2						
5	70	µg/L	Chloroform		0.26						
5	70	µg/L	cis-1,2-Dichloroethene		0.46					0.67	
5	500	µg/L	m&p-Xylene		0.66						
1	5	µg/L	Methylene chloride		3.5						
NE	NE	µg/L	o-Xylene		1.2						
1	0.7	µg/L	Tetrachloroethene		1.8						
NS	NS	µg/L	Tetrahydrofuran		197						
1	3	µg/L	Trichloroethene		0.88						
1	2000	µg/L	Trichlorofluoromethane		20.1					0.34	
			SM 2320B								
			µg/L								
NE	NE	µg/L	Alkalinity, Total as CaCO3		219000	155000				47700	19600
			SM 2540C								
			µg/L								
NE	500000	µg/L	Total Dissolved Solids		498000	180000				124000	81000
			SM 4500-Cl-E								
			µg/L								

Summary of Detected Constituents

MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	SW-1	SW-2	SW-3	SW-4	Trip Blank	Equipment Blank
									237000	2E+05		
									20900	23600		
									5.1	8.3		
									14	7		
									6.4	6.7		
									-1	66		
									415	370		
									11.4	11.5		
		7590	15300	9460				38300				
141	91.3	57.5	60.1	139	143		42.5	81				
				2.3								
				5.5								
				6.1								
	424	23000	3030	6140	2050		2290	4170				
				6.4								
	6.8	1250	58.3	140	71		130	280				
11900		6480	9980	20200	12700		9390	8650				
				10.8				7.5				
				31.6	12			13.5				
							2.2	4			6.6	5.5
												3.2
0.42	0.68											
17400	21700	122000	40200	44500	30400		19600	26100				
128000	89000	165000	124000	159000	138000		140000	189000				

Summary of Detected Constituents

Facility Permit	34-12	Old Salisbury Road Landfill (C&D)
Qualifier	(Multiple Items)	

MCL SWSL	MCL 2L	Units	Concentration	MW-1R	MW-2R	MW-3R	MW-4R	MW-5R	MW-6R	MW-7	MW-8
NE	250000	µg/L	Chloride		62400						
			Field								
			feet								
			Static Water Level	36.52	16.58	44.06	9.04	11.1		77.6	17.03
			Total Well Depth		21	27				48	27
			mg/l								
			Oxygen, Dissolved		1.7	3.1				4	5.8
			NTU								
			Turbidity		1	4				3	4
			Std. Units								
			Field pH		5.9	6				5.8	5.6
			mV								
			REDOX		95	71				207	206
			µmhos/cm								
			Field Specific Conductance		762	306				158	48
			°C								
			Field Temperature		12.7	13.8				12.3	15.2
			June-11								
			EPA 350.1								
			µg/L								
NS	NS	µg/L	Nitrogen, Ammonia		0.12						
			EPA 6010								
			µg/L								
NE	NE	µg/L	Sodium		27200						
			EPA 8260								
			µg/L								
1	1	µg/L	Benzene		1.6						
1	0.7	µg/L	Tetrachloroethene		1.6						
NS	NS	µg/L	Tetrahydrofuran		274						
			RSK 175								
			µg/L								
NS	NS	µg/L	Methane		1280						
			SM 2320B								
			µg/L								
NE	NE	µg/L	Alkalinity, Total as CaCO3		165000						
			SM 4500-Cl-E								
			mg/l								
NE	250000	µg/L	Chloride		39.9						
			Field								
			feet								
			Static Water Level		8.31						
			Total Well Depth		21						
			mg/l								
			Oxygen, Dissolved		4.2						
			NTU								
			Turbidity		3						
			Std. Units								
			Field pH		5.8						
			mV								
			REDOX		88						
			µmhos/cm								
			Field Specific Conductance		698						
			°C								
			Field Temperature		19.1						
			May-11								
			EPA 6010								
			µg/L								
100	700	µg/L	Barium	84.7	273	301	126	63.7		104	27.3
10	10	µg/L	Chromium	1.4	5.4		1.3	7.6			0.96
10	20	µg/L	Silver	0.51	2.5	0.6	0.88	0.57		0.84	0.1

Summary of Detected Constituents

MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	SW-1	SW-2	SW-3	SW-4	Trip Blank	Equipment Blank
		8480	8030				19100	10900				
52.19	12.24	7.38	9.19	17.83	52.08							
60	21	20	15.58	20	60							
6.8	4.5	0.6	2	6.9	6.2		7.7	7.3				
1	2	37	54	223	154		36	103				
5.6	5.6	6.3	6	5.9	5.8		6.4	6.6				
205	223	-148	216	239	218		112	88				
141	58	289	155	127	139		116	177				
14.9	14.2	13.5	13	13.3	14.3		10.9	11.5				
153	80.7	56.2	39.1	164	125		69.9	49.2				
	0.63		2.6	3.9	1.8							
0.43	0.12	1.2	0.7	0.72	0.74		0.4	0.2				

Summary of Detected Constituents

Facility Permit	34-12	Old Salisbury Road Landfill (C&D)
Qualifier	(Multiple Items)	

MCL SWSL	MCL 2L	Units	Concentration	MW-1R	MW-2R	MW-3R	MW-4R	MW-5R	MW-6R	MW-7	MW-8
			EPA 8260								
			µg/L								
1	200	µg/L	1,1,1-Trichloroethane							0.82	
5	6	µg/L	1,1-Dichloroethane		1.1					3.8	
100	6000	µg/L	Acetone								3.8
1	1	µg/L	Benzene		1.3						
5	70	µg/L	Chloroform		0.36						
1	3	µg/L	Chloromethane				0.15				
5	70	µg/L	cis-1,2-Dichloroethene		0.26					0.71	
5	500	µg/L	m&p-Xylene		0.74					1.4	
1	5	µg/L	Methylene chloride		4.1						
NE	NE	µg/L	o-Xylene		0.84					0.39	
1	0.7	µg/L	Tetrachloroethene		1.4						
NS	NS	µg/L	Tetrahydrofuran		226						
1	3	µg/L	Trichloroethene		0.65						
1	2000	µg/L	Trichlorofluoromethane		31.6					0.48	
			Field								
			feet								
			Static Water Level	35.93	8.17	20.56	8.34	10.44		37.99	15.08
			Total Well Depth	60	21	27	20	19.56		48	27
			mg/l								
			Oxygen, Dissolved	6.3	3.9	6.3	5.3	9		3.2	8.7
			NTU								
			Turbidity	55	57	70	96	85		40	18
			Std. Units								
			Field pH	5.8	5.9	6.2	5.7	6.1		5.6	5.1
			mV								
			REDOX	263	71	-43	271	141		245	272
			µmhos/cm								
			Field Specific Conductance	110	687	409	174	208		193	10
			°C								
			Field Temperature	17	16	14.6	14.3	15.5		16.2	16.6
			November-10								
			EPA 6010								
			µg/L								
100	700	µg/L	Barium	85.4	223	302	335	53		100	26.8
10	10	µg/L	Chromium	0.96	0.49		0.68	5.8		0.55	0.62
10	15	µg/L	Lead								
10	20	µg/L	Silver		0.85		1.3	0.16		0.23	
			EPA 8260								
			µg/L								
1	5	µg/L	Methylene chloride		4.2						
1	2000	µg/L	Trichlorofluoromethane		36.1						
			Field								
			feet								
			Static Water Level	35.62	8.39	19.97	8.49	10.5		37.48	16.12
			Total Well Depth	60	21	27	20	30		48	27
			mg/l								
			Oxygen, Dissolved	6.8	4.3	4.8	3.6	8.1		4	7.9
			NTU								
			Turbidity	3	6	99	40	3		1.5	1
			Std. Units								
			Field pH	5.13	5.05	5.22	6.16	5.13		5.81	5.56
			mV								
			REDOX	282	99	-14	260	212		261	329
			µmhos/cm								
			Field Specific Conductance	109	543	369	562	204		191	60
			°C								
			Field Temperature	16.8	16.3	15.9	16.4	16.2		15.1	17.5

Summary of Detected Constituents

MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	SW-1	SW-2	SW-3	SW-4	Trip Blank	Equipment Blank
			0.21		0.24							
		12.1		18.6								
0.26	0.52											
51.11	11.72	4	4.91	8.85	51.45							
60	21	20	15.58	20	60							
7.3	7.1	4.3	7.4	5.2	7.8		6.6	9.1				
1	4	23	25	177	39		50	52				
5.6	5.5	6.2	6	5.6	5.5		6.4	6.5				
265	279	-36	188	245	272		-15	23				
153	55	321	179	171	140		295	129				
18.7	16.6	15.6	15	15	17.1		19.7	18.6				
157	38.9	48.1	44.9	176	129		61.9	57.6				
			1.1	4	2.3							
				4.3								
50.02	12.04	4.03	4.97	9.04	51							
60	21	20	15.58	20	60							
7.8	7.8	5.1	4.9	5.2	7.7		6.7	8.8				
1	0.5	80	7	200	24		7	8				
5.38	5.31	5.91	5.82	5.45	5.42		6.37	6.09				
334	329	-27	183	251	335		9	60				
193	42	267	183	168	167		307	183				
16.2	18.5	17	18.1	17.2	17.2		14	13.4				

Summary of Detected Constituents

Facility Permit 34-12 Old Salisbury Road Landfill (C&D)

Qualifier (Multiple Items)

MCL SWSL	MCL 2L	Units	Concentration	MW-1R	MW-2R	MW-3R	MW-4R	MW-5R	MW-6R	MW-7	MW-8
			April-10								
			EPA 8260								
			µg/L								
1	2000	µg/L	Trichlorofluoromethane		21.9						
			Field								
			feet								
			Static Water Level		7.15						
			Total Well Depth		21						
			mg/l								
			Oxygen, Dissolved		2.7						
			NTU								
			Turbidity		2						
			Std. Units								
			Field pH		5.46						
			mV								
			REDOX		-7						
			µmhos/cm								
			Field Specific Conductance		255						
			°C								
			Field Temperature		14.3						
			March-10								
			EPA 6010								
			µg/L								
10	10	µg/L	Arsenic			4		4.2		3.4	
100	700	µg/L	Barium	85.3	103	314	55.9	54.3		99.3	28.8
1	2	µg/L	Cadmium			0.82					
10	10	µg/L	Chromium	1.4	1.2		1.3	5			1.4
10	20	µg/L	Silver	0.29	0.67	0.45		0.46		0.56	
			EPA 8260								
			µg/L								
1	2000	µg/L	Trichlorofluoromethane		22.2						
			Field								
			feet								
			Static Water Level	36.62	7.16	18.22	8.22	9.99		38.71	13.23
			Total Well Depth	60	21	27	20	30		48	27
			mg/l								
			Oxygen, Dissolved	5.9	4.8	3.7	4.4	6.1		2.2	7.2
			NTU								
			Turbidity	2	4	6	45	3		2	7
			Std. Units								
			Field pH	5.74	5.31	5.61	5.56	5.96		5.55	5.21
			mV								
			REDOX	262	191	31	262	260		213	303
			µmhos/cm								
			Field Specific Conductance	90	230	330	90	170		160	60
			°C								
			Field Temperature	20.7	14.8	16.4	14.6	19.2		16.8	13.7
			November-09								
			Field								
			feet								
			Static Water Level								
			Total Well Depth								
			mg/l								
			Oxygen, Dissolved								
			NTU								
			Turbidity								
			Std. Units								
			Field pH								
			mV								
			REDOX								
			µmhos/cm								
			Field Specific Conductance								
			°C								
			Field Temperature								

Summary of Detected Constituents

MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	SW-1	SW-2	SW-3	SW-4	Trip Blank	Equipment Blank
			2.7				3.7					
134	46.6	37.6	40.6	126	130		92.5	59.4				
			2.4	1.7	3							
0.27		0.48	0.2	0.4	0.39		0.28	0.2				
51.31	11.18	3.55	4.15	8.05	51.21							
60	21	20	15.58	20	60							
8.5	7.4	1.9	6.8	5.4	7.9		6.8	8.8				
6	2	13	31	11	29		8	13				
5.32	5.18	5.97	5.73	5.5	5.35		7.05	6.77				
309	300	-60	197	237	292		53	82				
140	40	190	140	120	150		230	170				
14.6	17.1	13.4	13	13.6	14.4		17.1	17.9				
				8.55								
				20								
				2.6								
				65								
				5.23								
				386								
				105								
				15.9								

Summary of Detected Constituents

Facility Permit 34-12 Old Salisbury Road Landfill (C&D)
Qualifier (Multiple Items)

MCL SWSL	MCL 2L	Units	Concentration	MW-1R	MW-2R	MW-3R	MW-4R	MW-5R	MW-6R	MW-7	MW-8
			September-09								
			EPA 6010								
			µg/L								
100	700	µg/L	Barium	92.8	80.7	289	334	66.8		104	27.2
10	10	µg/L	Chromium	2			5.4	8.6		0.65	
10	15	µg/L	Lead				4.8				
10	20	µg/L	Silver	0.48	0.68	1	2.4	0.6		0.88	0.16
			EPA 7470								
			µg/L								
0.2	1	µg/L	Mercury								
			EPA 8260								
			µg/L								
5	350	µg/L	1,1-Dichloroethene								
100	700	µg/L	Carbon Disulfide			26.1				12.5	
1	5	µg/L	Methylene chloride								
1	2000	µg/L	Trichlorofluoromethane								
			Field								
			feet								
			Static Water Level	37.16	8.89	22.73	9.59	11.33		39.87	16.7
			Total Well Depth	60	21	27	20	30		48	27
			mg/l								
			Oxygen, Dissolved	3.6	1	0.5	1.8	6.3		1	5.4
			NTU								
			Turbidity	38	12	40	247	62		21	27
			Std. Units								
			Field pH	5.61	5.65	5.88	5.77	6.11		5.47	5.43
			mV								
			REDOX	334	175	37	259	362		292	342
			µmhos/cm								
			Field Specific Conductance	107	228	366	391	195		170	60
			°C								
			Field Temperature	18.1	18.8	17.6	19.2	16.6		18.9	16.1
			March-09								
			EPA 6010								
			µg/L								
100	700	µg/L	Barium	74.3	88.5	252	58.3	52.6		86.9	25
10	10	µg/L	Chromium	0.88	1.6		1.2	5.2			0.78
10	20	µg/L	Silver		0.58	0.29		0.28		0.42	
			EPA 8260								
			µg/L								
100	700	µg/L	Carbon Disulfide			3.3					
			Field								
			feet								
			Static Water Level	38.27	8.14	22.29	10.07	11.14		40.61	15.86
			Total Well Depth	60	21	27	20	30		48	27
			mg/l								
			Oxygen, Dissolved	4.5	2.6	1.3	4.9	6.6		0.9	7.8
			Std. Units								
			Field pH	5.7	5.59	5.92	5.51	6.01		5.62	5.38
			mV								
			REDOX	585	198	1	433	517		355	523
			µmhos/cm								
			Field Specific Conductance	94	222	349	60	175		152	54
			°C								
			Field Temperature	15.4	13	14.7	11	13.6		15	14.8

Summary of Detected Constituents

MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	SW-1	SW-2	SW-3	SW-4	Trip Blank	Equipment Blank
128	39.1	31.8	38	117	242		77.7	52.1				
				0.8	10.7							
					7.2		17.5					
0.32	0.19	0.5	0.39	0.41	0.54		0.62	0.36				
								0.081				
				19.8								
	13											
											2.6	
				18.6								
51.52	12.36	4.48	4.85	9.35	51.28							
60	21	20	15.58	20	60							
6.1	6.9	1	2.4	4.1	6		0.6	8.4				
28	2	13	19	63	598		65	30				
5.45	5.35	6.15	5.83	5.56	5.53		6.16	6.55				
353	371	-22	197	290	364		28	111				
141	42	171	139	124	147		255	148				
16.9	18.9	19.3	19.5	17.9	16.8		19.8	20.9				
173	38.9	28.4	34.5	79.2	97.9		45.6	46.3				
7.6	0.65		2	1.6	0.4		0.61	0.42				
0.18												
52.36	11.7	3.73	4.13	8.34	51.52							
60	21	20	15.58	20	60							
6.4	7.2	2.4	7.1	4.2	8.3		6.4	8.6				
5.37	5.58	5.84	5.79	5.4	5.5		6.07	7.01				
466	353	-122	181	241	390		53	117				
115	37	137	114	89	140		146	126				
15.5	13.9	13.5	12.4	12.8	15		15.5	15.9				

Summary of Detected Constituents

Facility Permit 34-12 Old Salisbury Road Landfill (C&D)

Qualifier (Multiple Items)

MCL SWSL	MCL 2L	Units	Concentration	MW-1R	MW-2R	MW-3R	MW-4R	MW-5R	MW-6R	MW-7	MW-8
			December-08								
			EPA 6010								
			µg/L								
10	10	µg/L	Arsenic								
100	700	µg/L	Barium	85	98.8	231	263	56.1		99	32.8
10	10	µg/L	Chromium	0.64	0.5		0.58	5.3		0.91	0.97
10	15	µg/L	Lead								
10	20	µg/L	Selenium			11.8					
10	20	µg/L	Silver	0.62	1.2	1.5	2.6	0.78		0.96	0.15
			EPA 8260								
			µg/L								
5	70	µg/L	Chloroform		3.4						
			Field								
			feet								
			Static Water Level	38.39	9.13	22.72	11.18	11.78		40.61	17.8
			Total Well Depth	60	21	27	20	30		48	27
			mg/l								
			Oxygen, Dissolved	4.43	0.64	0.62	0.81	6.83		1.88	6.01
			Std. Units								
			Field pH	5.79	5.76	5.79	5.88	6.08		5.64	5.85
			mV								
			REDOX	217	185	45	178	197		220	199
			µmhos/cm								
			Field Specific Conductance	93	218	268	422	176		152	53
			°C								
			Field Temperature	14.8	13.3	14.6	14.7	15		12.8	15.3
			March-08								
			EPA 6010								
			µg/L								
100	700	µg/L	Barium	90.3	102	293	172	57.5		95.7	24
10	10	µg/L	Chromium	0.49	0.79	0.63	0.4	5.6		7.3	0.42
10	20	µg/L	Selenium			4.9					
10	20	µg/L	Silver	0.43	0.93	0.87	0.94	0.56		0.66	0.13
			EPA 7470								
			µg/L								
0.2	1	µg/L	Mercury								0.1
			EPA 8260								
			µg/L								
100	4000	µg/L	2-Butanone (MEK)								
100	6000	µg/L	Acetone								
			Field								
			feet								
			Static Water Level	38.28	8.83	22.71	10.49	11.13		40.6	15.22
			Total Well Depth	60	21	27	20	30		48	27
			mg/l								
			Oxygen, Dissolved	4.61	1.46	3.08	3.69	6.77		3.04	6.44
			Std. Units								
			Field pH	6.04	6.14	6.08	6.75	6.56		5.84	7.39
			mV								
			REDOX	56	29	-43	24	33		52	50
			µmhos/cm								
			Field Specific Conductance	91	234	258	254	172		141	51
			°C								
			Field Temperature	16.62	16.47	14.41	11.87	14.15		15.59	14

Summary of Detected Constituents

MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	SW-1	SW-2	SW-3	SW-4	Trip Blank	Equipment Blank
					7.3							
124	41.9	28.6	57.9	88.7	583		78.2	50.6				
0.47				2.2	40.2		0.67					
					26.2							
		8.7										
0.36		0.79	0.37	0.44	0.46		0.39	0.5				
52.11	12.33	4.24	4.51	8.91	51.81							
60	21	20	15.58	20	60							
6.19	6.73	0.35	2.52	4.2	6.68		5.58	8.4				
5.7	5.73	6.33	5.98	5.68	5.81		5.04	6.19				
203	222	-79	-30	190	215		145	88				
117	35	133	118	84	135		196	130				
15	15.6	14.7	14.3	14.5	14.8		8.1	7				
124	42	29.2	60.5	64.6	186		79.7	50.6				
			1.8	1.1	4.1		1.2					
0.22		0.41	0.15	0.21	0.56		0.37	0.26				
												0.26
											4.6	
											15	
51.33	11.77	4.08	4.47	8.78	51.11							
60	21	20	15.58	20	60							
7.8	7.08	0.33	5.27	5.85	6.69		7.5	7.28				
5.66	6.81	7.12	7.22	6.45	5.82		7.69	8.54				
191	123	-172	18	74	124		197	195				
123	36	125	99	72	136		194	122				
17.68	14.52	13.95	12.86	15.63	16.47		14.74	13.5				

Summary of Detected Constituents

Facility Permit 34-12 Old Salisbury Road Landfill (C&D)
Qualifier (Multiple Items)

MCL SWSL	MCL 2L	Units	Concentration	MW-1R	MW-2R	MW-3R	MW-4R	MW-5R	MW-6R	MW-7	MW-8
			November-07								
			(blank)								
			µg/L								
100	6000	µg/L	Acetone								
100	700	µg/L	Barium	105	107	273	287	70.6		101	26.6
10	10	µg/L	Chromium					8.4			
0.2	1	µg/L	Mercury								
10	20	µg/L	Selenium			18.1					
10	20	µg/L	Silver								0.16
			Field								
			feet								
			Static Water Level	38.12	9.32	22.72	10.65	11.65		40.4	16.78
			Total Well Depth	60	21	27	20	30		48	27
			mg/l								
			Oxygen, Dissolved	5.08	0.72	1.69	1.32	6.5		0.85	7.12
			Std. Units								
			Field pH	6.52	6.67	6.21	6.35	7		6.07	6.27
			mV								
			REDOX	59	61	66	43	61		53	66
			µmhos/cm								
			Field Specific Conductance	85	176	217	394	161		126	51
			°C								
			Field Temperature	15.42	14.08	13.22	16.04	14.9		14.16	15.48
			April-07								
			(blank)								
			µg/L								
100	4000	µg/L	2-Butanone (MEK)								
10	10	µg/L	Arsenic								
100	700	µg/L	Barium	81	79	310	200	58		89	30
10	10	µg/L	Chromium					6.4			
10	15	µg/L	Lead								
10	20	µg/L	Selenium			24					
			Field								
			feet								
			Static Water Level	37.43	8.58	20.12	8.71	10.33		39.81	14.14
			Total Well Depth	60	21	27	20	30		48	27
			mg/l								
			Oxygen, Dissolved	3.82	0.48	290	1.07	5.55		0.67	5.14
			Std. Units								
			Field pH	5.86	5.59	5.81	6	6.17		5.66	5.03
			mV								
			REDOX	58	50	-3	-8	36		30	48
			µmhos/cm								
			Field Specific Conductance	91	151	324	333	171		139	52
			°C								
			Field Temperature	15.4	12.4	14.2	12.1	13.5		15.4	14.3
			November-06								
			(blank)								
			µg/L								
10	10	µg/L	Arsenic								
100	700	µg/L	Barium	94	90	230	220	58		76	29
1	2	µg/L	Cadmium			2					
10	10	µg/L	Chromium					6.2			
10	15	µg/L	Lead								
			Field								
			feet								
			Static Water Level	38.17	8.74	22.3	9.81	11.17		40.13	16.19
			Total Well Depth	60	21	27	20	30		48	27
			mg/l								
			Oxygen, Dissolved	4.28	0.31	1.15	0.42	5.88		1.21	6.2
			Std. Units								
			Field pH	6.29	5.97	5.94	6.16	6.49		5.94	6.15
			mV								
			REDOX	-13	114	160	59	59		95	35

Summary of Detected Constituents

MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	SW-1	SW-2	SW-3	SW-4	Trip Blank	Equipment Blank
							22.7					
117	40.8	23.1	47.3	85.6	130		70.3	49.4				
					1.7		0.61					
					0.098							
0.32		0.39	0.26		0.48		0.51	0.26				
50.38	12.34	4.33	4.95	9.27	50.78							
60	21	20	15.58	20	60							
7.32	6.59	1.02	2.01	5.16	7.33		5	6.93				
5.73	5.95	6.67	6.48	6.83	5.82		6.18	7.35				
56	73	-80	21	73	58		34	48				
121	36	121	114	65	140		218	112				
15.75	16.38	16.33	16.3	15.32	15.75		15.64	17.53				
												11
								5.5				
140	52	25	31	79	210		88	300				
					6.6			17				
					5.2			11				
								21				
49.98	11.43	2.66	4.21	8.67	49.43							
60	21	20	15.7	20	60							
5.35	5.53	280	6.57	4.59	5.7		5.5	6.16				
5.86	5.62	5.96	6.02	5.72	5.79		6.63	6.32				
90	124	-114	87	110	99		27	86				
115	39	125	105	72	140		314	130				
15.5	14	13.9	13.5	12.9	15.4		22.3	20.8				
					8.3							
140	71	24	66	62	460		54	44				
					35							
					23							
49.85	11.94	3.41	4.65	8.92	40.93							
60	21	20	15.6	20	60							
5.44	5.67	0.31	0.85	4.54	6.41		7.91	5.26				
5.94	5.84	6.64	6.24	5.84	6		7.28	6.65				
90	221	67	132	235	171		130	233				

Summary of Detected Constituents

Facility Permit	34-12	Old Salisbury Road Landfill (C&D)
Qualifier	(Multiple Items)	

MCL SWSL	MCL 2L	Units	Concentration	MW-1R	MW-2R	MW-3R	MW-4R	MW-5R	MW-6R	MW-7	MW-8
			µmhos/cm								
			Field Specific Conductance	104	235	266	196	196		155	60
			°F								
			Field Temperature	58.8	59.3	59.5	59.9	60.2		58.1	59.9
			April-06								
			(blank)								
			µg/L								
100	700	µg/L	Barium	82	52	290	220	57		74	29
10	10	µg/L	Chromium					6.2			
10	15	µg/L	Lead								
			November-05								
			EPA 6010								
			µg/L								
100	700	µg/L	Barium	78	62	300	180	54		60	26
10	10	µg/L	Chromium					3.5			
10	15	µg/L	Lead								
			EPA 7470								
			µg/L								
0.2	1	µg/L	Mercury		0.34			0.4		0.24	0.26
			EPA 8260								
			µg/L								
1	3	µg/L	Chloromethane					5.4			
			June-05								
			(blank)								
			µg/L								
10	10	µg/L	Arsenic								
100	700	µg/L	Barium	48	43	300	150	53		53	25
10	10	µg/L	Chromium					5.6			
10	15	µg/L	Lead								
10	20	µg/L	Selenium	5.5							
			November-04								
			(blank)								
			µg/L								
10	10	µg/L	Arsenic					5.1			
100	700	µg/L	Barium	95	52	340	140	80		63	30
10	10	µg/L	Chromium	2		2.3		14		4.4	2.4
			August-04								
			(blank)								
			µg/L								
10	10	µg/L	Arsenic								
100	700	µg/L	Barium								
10	10	µg/L	Chromium								
10	15	µg/L	Lead								
10	20	µg/L	Selenium								
			May-04								
			(blank)								
			µg/L								
10	10	µg/L	Arsenic				9.2	5			6
100	700	µg/L	Barium	96.3	55	270	380	76	28	180	480
10	10	µg/L	Chromium	3.5		3.7	14	7.3	2.2	26	28
10	15	µg/L	Lead			14	18	5.1			41
			November-03								
			(blank)								
			µg/L								
10	10	µg/L	Arsenic							8.6	
100	700	µg/L	Barium	460	60	200	97	65	25	820	52
10	10	µg/L	Chromium		2.2	2.3	2.6	8.7	2.4	150	3.2
10	15	µg/L	Lead	22						24	

Summary of Detected Constituents

MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	SW-1	SW-2	SW-3	SW-4	Trip Blank	Equipment Blank
136	45	145	127	80	152		66	140				
59.7	60.7	60.4	60.3	60.7	59.2		55.4	62.2				
100	48	26	55	65	250		120	150				
			4	2	15		4.2	4.7				
					13			7.6				
100	46	27	77	59	120		73	51				
					3.9							
					5.9							
	0.2				0.44		1.1					
							23					
85	82	24	50	46	69		750	47				
							52					
							57					
95	55	28	77	57	66		53	65				
		3.9	2.1	4.8			3.2					
							20					
240	98	47	74	160	170		500	63				
14	13	3.3		9.2	3.2		36					
14	6.8			11	8		38					
	6.2											

Summary of Detected Constituents

Facility Permit 34-12 Old Salisbury Road Landfill (C&D)

Qualifier (Multiple Items)

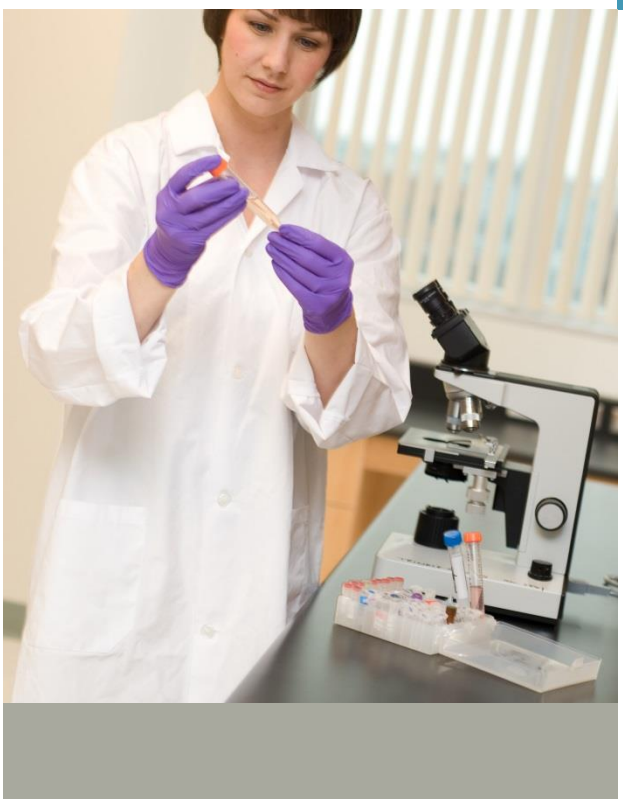
MCL SWSL	MCL 2L	Units	Concentration	MW-1R	MW-2R	MW-3R	MW-4R	MW-5R	MW-6R	MW-7	MW-8
			May-03								
			(blank)								
			µg/L								
100	700	µg/L	Barium	120	56	220	94	72	24	130	77
1	2	µg/L	Cadmium					2.7			
10	10	µg/L	Chromium	4.3			5.5	9.5		17	3.8
10	15	µg/L	Lead				5.3			5.3	6.7
			December-02								
			(blank)								
			µg/L								
100	700	µg/L	Barium	100	140	13	86	65	41	210	48
1	2	µg/L	Cadmium		1.9						
10	10	µg/L	Chromium	2.3	2.1		5	7.4	3.2	32	2
10	15	µg/L	Lead				6			6	
			April-02								
			(blank)								
			µg/L								
10	10	µg/L	Arsenic			7.4					
100	700	µg/L	Barium	130	100	370	61	150	180	84	150
10	10	µg/L	Chromium	5		15		23	26	6.8	23
10	15	µg/L	Lead			21			7.6		
10	20	µg/L	Silver							2.6	
			November-01								
			(blank)								
			µg/L								
10	10	µg/L	Arsenic	5.8		8.4	12	7	16	17	36
100	700	µg/L	Barium	280	160	400	900	610	530	1300	2700
10	10	µg/L	Chromium	22	16	19	95	140	95	270	94
10	15	µg/L	Lead	10	7	35	36	13	38	36	150
1	600	µg/L	Toluene	21							
			July-01								
			(blank)								
			µg/L								
10	10	µg/L	Arsenic			18	5.6			16	46
100	700	µg/L	Barium	87	280	950	550	270	62	1300	2600
10	10	µg/L	Chromium	6.6	16	50	38	49	4.1	210	92
10	15	µg/L	Lead		8.9	53	14	7.6		26	210
			December-00								
			(blank)								
			µg/L								
10	10	µg/L	Arsenic			31		5		45	89
100	700	µg/L	Barium	150	61	1500	350	400	41	2600	4200
10	10	µg/L	Chromium	6.6	3.9	100	28	82	2.6	580	240
10	15	µg/L	Lead			80	8.1	7.6		65	400
			June-00								
			(blank)								
			µg/L								
100	700	µg/L	Barium	110	180	300	570	200	82	360	
10	10	µg/L	Chromium		3			8.1		2.5	
10	15	µg/L	Lead		6.5		9.5		5.8	8.7	
			November-99								
			(blank)								
			µg/L								
10	10	µg/L	Arsenic			5.9	7.5				
100	700	µg/L	Barium	130	120	52	860	200	59	390	
10	10	µg/L	Chromium	5.2	14	24	60	29	2.8	62	
10	15	µg/L	Lead		6.9	40	40	8.2		12	
0.2	1	µg/L	Mercury				0.36				

Summary of Detected Constituents

Facility Permit 34-12 Old Salisbury Road Landfill (C&D)

Qualifier (Multiple Items)

MCL SWSL	MCL 2L	Units	Concentration	MW-1R	MW-2R	MW-3R	MW-4R	MW-5R	MW-6R	MW-7	MW-8
			June-99								
			(blank)								
			µg/L								
10	10	µg/L	Arsenic							9.8	
100	700	µg/L	Barium	150	150		950	240		960	
10	10	µg/L	Chromium	7.8	7.8		110	38		190	
10	15	µg/L	Lead				50	16		30	
1	5	µg/L	Methylene chloride	13	13		10	10		10	
			November-98								
			(blank)								
			µg/L								
100	6000	µg/L	Acetone					150			
10	10	µg/L	Arsenic		11						
100	700	µg/L	Barium	160	1100	1400	2000	480	160	1300	
100	700	µg/L	Carbon Disulfide	28				25		9	
10	10	µg/L	Chromium	12	210	77	300	96	12	350	
10	15	µg/L	Lead		68	39	76	29		36	
0.2	1	µg/L	Mercury				0.21				
			May-98								
			(blank)								
			µg/L								
10	10	µg/L	Arsenic					5			
100	700	µg/L	Barium	100	190	860	850	820	360	1200	
10	10	µg/L	Chromium	49	34	25	130	170	33	430	
10	15	µg/L	Lead		19	32	43	69	20	38	
			October-97								
			(blank)								
			µg/L								
100	700	µg/L	Barium	290	340	620	650	610	260	1800	
10	10	µg/L	Chromium	11	43	16	55	16	14	410	
10	15	µg/L	Lead	12	31	26	29	31	14	53	
0.2	1	µg/L	Mercury			0.2				0.2	
			May-97								
			(blank)								
			µg/L								
100	700	µg/L	Barium	100	200	800	280	330	300	750	
1	2	µg/L	Cadmium		3						
10	10	µg/L	Chromium	3	4	28		70	21	180	
10	15	µg/L	Lead		14	27	12	14	14	23	
10	20	µg/L	Silver		6		6				
			October-96								
			(blank)								
			µg/L								
100	700	µg/L	Barium	180	160	790	720	620	590	970	
10	10	µg/L	Chromium	6	9	20	47	43	10	21	
10	15	µg/L	Lead		8	15	16	20	11	6	
0.2	1	µg/L	Mercury	0.2			0.3			0.4	
			January-96								
			(blank)								
			µg/L								
100	4000	µg/L	2-Butanone (MEK)		86						
100	700	µg/L	Barium	224	350	1230	595	1000	1400	1930	
1	2	µg/L	Cadmium				7				
100	700	µg/L	Carbon Disulfide	23							
10	10	µg/L	Chromium		12	9	21	96	12	28	
10	15	µg/L	Lead	6	26	15	17	19	18	17	
0.2	1	µg/L	Mercury	1.8	0.4	0.7	1.7	0.8	1.4	1.4	



B

Appendix B – Groundwater Laboratory Data

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

June 16, 2014

Mr. Eric Wright
HDR Engineering
440 South Church Street
Suite 1000
Charlotte, NC 28202

RE: Project: OSR
Pace Project No.: 92203023

Dear Mr. Wright:
Enclosed are the analytical results for sample(s) received by the laboratory between May 28, 2014 and May 29, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

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

Sincerely,

Kevin Godwin
kevin.godwin@pacelabs.com
Project Manager

Enclosures

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Pace Analytical Services, Inc.
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CERTIFICATIONS

Project: OSR
Pace Project No.: 92203023

Ormond Beach Certification IDs
8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Arizona Certification #: AZ0735
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Massachusetts Certification #: M-FL1264
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Hampshire Certification #: 2958
New Jersey Certification #: FL765
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Washington Certification #: C955
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

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

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

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SAMPLE ANALYTE COUNT

Project: OSR
Pace Project No.: 92203023

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92203023001	**3412-EQUIPMENT BLANK**	EPA 8260	MCK	52	PASI-C
92203023002	**3412-MW8**	EPA 6010	JMW	19	PASI-A
		EPA 7470	MTS	1	PASI-A
		EPA 8260	MCK	52	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 2540C	MAB	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A
		EPA 300.0	SAE	1	PASI-A
		SM 4500-Cl-E	SMW	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
92203023003	**3412-MW9**	EPA 6010	JMW	19	PASI-A
		EPA 7470	MTS	1	PASI-A
		EPA 8260	MCK	52	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 2540C	MAB	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A
		EPA 300.0	SAE	1	PASI-A
		SM 4500-Cl-E	SMW	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
92203023004	**3412-MW14**	EPA 6010	JMW	19	PASI-A
		EPA 7470	MTS	1	PASI-A
		EPA 8260	MCK	52	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 2540C	MAB	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A
		EPA 300.0	SAE	1	PASI-A
		SM 4500-Cl-E	SMW	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
92203023005	**3412-MW15**	EPA 8081	RES	12	PASI-C
		EPA 8151	LJM	3	PASI-O
		EPA 6010	JMW	19	PASI-A
		EPA 7470	MTS	1	PASI-A
		EPA 8270	RES	6	PASI-C
		EPA 8260	MCK	52	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 2540C	MAB	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A

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SAMPLE ANALYTE COUNT

Project: OSR
Pace Project No.: 92203023

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 300.0	SAE	1	PASI-A
		SM 4500-Cl-E	SMW	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
92203023006	**3412-MW10**	EPA 6010	JMW	19	PASI-A
		EPA 7470	MTS	1	PASI-A
		EPA 8260	MCK	52	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 2540C	MAB	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A
		EPA 300.0	SAE	1	PASI-A
		SM 4500-Cl-E	JDA	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
92203023007	**3412-MW11**	EPA 6010	JMW	19	PASI-A
		EPA 7470	MTS	1	PASI-A
		EPA 8260	MCK	52	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 2540C	MAB	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A
		EPA 300.0	SAE	1	PASI-A
		SM 4500-Cl-E	JDA	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
92203023008	**3412-MW12**	EPA 6010	JMW	19	PASI-A
		EPA 7470	MTS	1	PASI-A
		EPA 8260	MCK	52	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 2540C	MAB	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A
		EPA 300.0	SAE	1	PASI-A
		SM 4500-Cl-E	JDA	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
92203023009	**3412-MW13**	EPA 6010	JMW	19	PASI-A
		EPA 7470	MTS	1	PASI-A
		EPA 8260	MCK	52	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 2540C	MAB	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A
		EPA 300.0	SAE	1	PASI-A

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SAMPLE ANALYTE COUNT

Project: OSR
Pace Project No.: 92203023

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-Cl-E	JDA	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
92203023010	**3412-MW3R**	EPA 6010	JMW	19	PASI-A
		EPA 7470	MTS	1	PASI-A
		EPA 8260	MCK	52	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 2540C	MAB	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A
		EPA 300.0	SAE	1	PASI-A
		SM 4500-Cl-E	JDA	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
92203023011	**3412-MW7**	EPA 6010	JMW	19	PASI-A
		EPA 7470	MTS	1	PASI-A
		EPA 8260	MCK	52	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 2540C	MAB	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A
		EPA 300.0	SAE	1	PASI-A
		SM 4500-Cl-E	JDA	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
92203023012	**3412-MW4R**	EPA 8081	RES	12	PASI-C
		EPA 8151	LJM	3	PASI-O
		EPA 6010	JMW	19	PASI-A
		EPA 7470	MTS	1	PASI-A
		EPA 8270	RES	6	PASI-C
		EPA 8260	MCK	52	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 2540C	MAB	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A
		EPA 300.0	SAE	1	PASI-A
		SM 4500-Cl-E	JDA	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
92203023013	**3412-TRIP BLANK**	EPA 8260	NU1	52	PASI-C
92203023014	**3412-MW5R**	EPA 6010	JMW	19	PASI-A
		EPA 7470	MTS	1	PASI-A
		EPA 8260	NU1	52	PASI-C
		SM 2320B	MDW	1	PASI-A

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SAMPLE ANALYTE COUNT

Project: OSR
Pace Project No.: 92203023

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2540C	WRC	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A
		EPA 300.0	SAE	1	PASI-A
		SM 4500-Cl-E	DMN	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
92203023015	**3412-SW1**	EPA 6010	JMW	19	PASI-A
		EPA 7470	MTS	1	PASI-A
		EPA 8260	NU1	52	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 2540C	WRC	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A
		EPA 300.0	SAE	1	PASI-A
		SM 4500-Cl-E	DMN	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
92203023016	**3412-SW2**	EPA 6010	JMW	19	PASI-A
		EPA 7470	MTS	1	PASI-A
		EPA 8260	NU1	52	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 2540C	WRC	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A
		EPA 300.0	SAE	1	PASI-A
		SM 4500-Cl-E	DMN	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
92203023017	**3412-SW3**	EPA 6010	JMW	19	PASI-A
		EPA 7470	MTS	1	PASI-A
		EPA 8260	NU1	52	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 2540C	MAB	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A
		EPA 300.0	SAE	1	PASI-A
		SM 4500-Cl-E	DMN	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
92203023018	**3412-SW4**	EPA 6010	JMW	19	PASI-A
		EPA 7470	MTS	1	PASI-A
		EPA 8260	NU1	52	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 2540C	MAB	1	PASI-A

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SAMPLE ANALYTE COUNT

Project: OSR
Pace Project No.: 92203023

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-S2D	SAE	1	PASI-A
		EPA 300.0	SAE	1	PASI-A
		SM 4500-Cl-E	DMN	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
92203023019	**3412-MW1R**	EPA 8081	RES	12	PASI-C
		EPA 8151	LJM	3	PASI-O
		EPA 6010	JMW	19	PASI-A
		EPA 7470	MTS	1	PASI-A
		EPA 8270	RES	9	PASI-C
		EPA 8260	NU1	52	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 2540C	MAB	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A
		EPA 300.0	SAE	1	PASI-A
		SM 4500-Cl-E	DMN	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
92203023020	**3412-MW2R**	EPA 8081	RES	12	PASI-C
		EPA 8151	LJM	3	PASI-O
		EPA 6010	JMW	19	PASI-A
		EPA 7470	MTS	1	PASI-A
		EPA 8270	BPJ	6	PASI-C
		EPA 8260	NU1	52	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 2540C	MAB	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A
		EPA 300.0	SAE	1	PASI-A
		SM 4500-Cl-E	DMN	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-EQUIPMENT BLANK **Lab ID: 92203023001** Collected: 05/27/14 10:10 Received: 05/28/14 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		05/29/14 20:01	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		05/29/14 20:01	107-13-1	
Benzene	ND	ug/L	1.0	1		05/29/14 20:01	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		05/29/14 20:01	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/29/14 20:01	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/29/14 20:01	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/29/14 20:01	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/29/14 20:01	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		05/29/14 20:01	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/29/14 20:01	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/29/14 20:01	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/29/14 20:01	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/29/14 20:01	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/29/14 20:01	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/29/14 20:01	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/29/14 20:01	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/29/14 20:01	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/29/14 20:01	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/29/14 20:01	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/29/14 20:01	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		05/29/14 20:01	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/29/14 20:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/29/14 20:01	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/29/14 20:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/29/14 20:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/29/14 20:01	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/29/14 20:01	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/29/14 20:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/29/14 20:01	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/29/14 20:01	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		05/29/14 20:01	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/29/14 20:01	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		05/29/14 20:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/29/14 20:01	108-10-1	
Styrene	ND	ug/L	1.0	1		05/29/14 20:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/29/14 20:01	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/29/14 20:01	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/29/14 20:01	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		05/29/14 20:01	109-99-9	
Toluene	ND	ug/L	1.0	1		05/29/14 20:01	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/29/14 20:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/29/14 20:01	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/29/14 20:01	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/29/14 20:01	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/29/14 20:01	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/29/14 20:01	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/29/14 20:01	75-01-4	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-EQUIPMENT BLANK **Lab ID: 92203023001** Collected: 05/27/14 10:10 Received: 05/28/14 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
m&p-Xylene	ND	ug/L	2.0	1		05/29/14 20:01	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/29/14 20:01	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1		05/29/14 20:01	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		05/29/14 20:01	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		05/29/14 20:01	2037-26-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-MW8 **Lab ID: 92203023002** Collected: 05/27/14 13:00 Received: 05/28/14 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:							
Collected By	**JJQ**			1		06/10/14 11:03		
Collected Date	**05/27/14**			1		06/10/14 11:03		
Collected Time	**13:00**			1		06/10/14 11:03		
Field pH	**5.0**	Std. Units	0.10	1		06/10/14 11:03		
Field Temperature	**16.0**	deg C	0.50	1		06/10/14 11:03		
Static Water Level	**13.41**	feet		1		06/10/14 11:03		
Field Specific Conductance	**64**	umhos/cm	1.0	1		06/10/14 11:03		
Oxygen, Dissolved	**8.4**	mg/L		1		06/10/14 11:03	7782-44-7	
Total Well Depth	**27**	feet		1		06/10/14 11:03		
REDOX	**389**	mV		1		06/10/14 11:03		
Turbidity	**8**	NTU	1.0	1		06/10/14 11:03		
Odor	**NONE**			1		06/10/14 11:03		
Appearance	**CLEAR**			1		06/10/14 11:03		
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 20:33	7440-36-0	
Arsenic	ND	ug/L	10.0	1	06/02/14 17:30	06/03/14 20:33	7440-38-2	
Barium	**30.7**	ug/L	5.0	1	06/02/14 17:30	06/03/14 20:33	7440-39-3	
Beryllium	ND	ug/L	1.0	1	06/02/14 17:30	06/03/14 20:33	7440-41-7	
Cadmium	ND	ug/L	1.0	1	06/02/14 17:30	06/03/14 20:33	7440-43-9	
Chromium	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 20:33	7440-47-3	
Cobalt	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 20:33	7440-48-4	
Copper	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 20:33	7440-50-8	
Iron	ND	ug/L	50.0	1	06/02/14 17:30	06/03/14 20:33	7439-89-6	
Lead	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 20:33	7439-92-1	
Manganese	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 20:33	7439-96-5	
Nickel	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 20:33	7440-02-0	
Selenium	ND	ug/L	10.0	1	06/02/14 17:30	06/03/14 20:33	7782-49-2	
Silver	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 20:33	7440-22-4	
Sodium	**6160**	ug/L	5000	1	06/02/14 17:30	06/03/14 20:33	7440-23-5	
Thallium	ND	ug/L	5.4	1	06/02/14 17:30	06/03/14 20:33	7440-28-0	
Tin	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 20:33	7440-31-5	
Vanadium	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 20:33	7440-62-2	
Zinc	ND	ug/L	10.0	1	06/02/14 17:30	06/03/14 20:33	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	05/30/14 20:30	06/02/14 18:44	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		05/29/14 20:17	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		05/29/14 20:17	107-13-1	
Benzene	ND	ug/L	1.0	1		05/29/14 20:17	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		05/29/14 20:17	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/29/14 20:17	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/29/14 20:17	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/29/14 20:17	74-83-9	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-MW8 **Lab ID: 92203023002** Collected: 05/27/14 13:00 Received: 05/28/14 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
2-Butanone (MEK)	ND	ug/L	5.0	1		05/29/14 20:17	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		05/29/14 20:17	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/29/14 20:17	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/29/14 20:17	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/29/14 20:17	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/29/14 20:17	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/29/14 20:17	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/29/14 20:17	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/29/14 20:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/29/14 20:17	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/29/14 20:17	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/29/14 20:17	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/29/14 20:17	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		05/29/14 20:17	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/29/14 20:17	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/29/14 20:17	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/29/14 20:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/29/14 20:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/29/14 20:17	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/29/14 20:17	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/29/14 20:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/29/14 20:17	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/29/14 20:17	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		05/29/14 20:17	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/29/14 20:17	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		05/29/14 20:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/29/14 20:17	108-10-1	
Styrene	ND	ug/L	1.0	1		05/29/14 20:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/29/14 20:17	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/29/14 20:17	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/29/14 20:17	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		05/29/14 20:17	109-99-9	
Toluene	ND	ug/L	1.0	1		05/29/14 20:17	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/29/14 20:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/29/14 20:17	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/29/14 20:17	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/29/14 20:17	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/29/14 20:17	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/29/14 20:17	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/29/14 20:17	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		05/29/14 20:17	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/29/14 20:17	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		05/29/14 20:17	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		05/29/14 20:17	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		05/29/14 20:17	2037-26-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-MW8 **Lab ID: 92203023002** Collected: 05/27/14 13:00 Received: 05/28/14 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**21300**	ug/L	5000	1		06/02/14 12:52		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**50000**	ug/L	25000	1		06/03/14 05:37		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	ug/L	100	1		06/03/14 15:47	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	ND	ug/L	2000	1		06/02/14 21:41	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**1800**	ug/L	1000	1		06/06/14 22:18	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	ug/L	5.0	1		06/01/14 14:31	57-12-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-MW9 **Lab ID: 92203023003** Collected: 05/27/14 13:55 Received: 05/28/14 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:							
Collected By	**JJQ**			1		06/10/14 11:04		
Collected Date	**05/27/14**			1		06/10/14 11:04		
Collected Time	**13:55**			1		06/10/14 11:04		
Field pH	**5.2**	Std. Units	0.10	1		06/10/14 11:04		
Field Temperature	**17.7**	deg C	0.50	1		06/10/14 11:04		
Static Water Level	**52.72**	feet		1		06/10/14 11:04		
Field Specific Conductance	**155**	umhos/cm	1.0	1		06/10/14 11:04		
Oxygen, Dissolved	**8.7**	mg/L		1		06/10/14 11:04	7782-44-7	
Total Well Depth	**60**	feet		1		06/10/14 11:04		
REDOX	**436**	mV		1		06/10/14 11:04		
Turbidity	**5**	NTU	1.0	1		06/10/14 11:04		
Odor	**NONE**			1		06/10/14 11:04		
Appearance	**CLEAR**			1		06/10/14 11:04		
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 20:36	7440-36-0	
Arsenic	ND	ug/L	10.0	1	06/02/14 17:30	06/03/14 20:36	7440-38-2	
Barium	**168**	ug/L	5.0	1	06/02/14 17:30	06/03/14 20:36	7440-39-3	
Beryllium	ND	ug/L	1.0	1	06/02/14 17:30	06/03/14 20:36	7440-41-7	
Cadmium	ND	ug/L	1.0	1	06/02/14 17:30	06/03/14 20:36	7440-43-9	
Chromium	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 20:36	7440-47-3	
Cobalt	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 20:36	7440-48-4	
Copper	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 20:36	7440-50-8	
Iron	ND	ug/L	50.0	1	06/02/14 17:30	06/03/14 20:36	7439-89-6	
Lead	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 20:36	7439-92-1	
Manganese	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 20:36	7439-96-5	
Nickel	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 20:36	7440-02-0	
Selenium	ND	ug/L	10.0	1	06/02/14 17:30	06/03/14 20:36	7782-49-2	
Silver	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 20:36	7440-22-4	
Sodium	**12400**	ug/L	5000	1	06/02/14 17:30	06/03/14 20:36	7440-23-5	
Thallium	ND	ug/L	5.4	1	06/02/14 17:30	06/03/14 20:36	7440-28-0	
Tin	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 20:36	7440-31-5	
Vanadium	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 20:36	7440-62-2	
Zinc	ND	ug/L	10.0	1	06/02/14 17:30	06/03/14 20:36	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	05/30/14 20:30	06/02/14 18:46	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		05/29/14 20:34	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		05/29/14 20:34	107-13-1	
Benzene	ND	ug/L	1.0	1		05/29/14 20:34	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		05/29/14 20:34	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/29/14 20:34	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/29/14 20:34	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/29/14 20:34	74-83-9	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-MW9 **Lab ID: 92203023003** Collected: 05/27/14 13:55 Received: 05/28/14 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
2-Butanone (MEK)	ND	ug/L	5.0	1		05/29/14 20:34	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		05/29/14 20:34	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/29/14 20:34	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/29/14 20:34	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/29/14 20:34	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/29/14 20:34	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/29/14 20:34	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/29/14 20:34	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/29/14 20:34	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/29/14 20:34	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/29/14 20:34	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/29/14 20:34	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/29/14 20:34	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		05/29/14 20:34	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/29/14 20:34	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/29/14 20:34	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/29/14 20:34	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/29/14 20:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/29/14 20:34	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/29/14 20:34	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/29/14 20:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/29/14 20:34	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/29/14 20:34	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		05/29/14 20:34	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/29/14 20:34	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		05/29/14 20:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/29/14 20:34	108-10-1	
Styrene	ND	ug/L	1.0	1		05/29/14 20:34	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/29/14 20:34	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/29/14 20:34	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/29/14 20:34	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		05/29/14 20:34	109-99-9	
Toluene	ND	ug/L	1.0	1		05/29/14 20:34	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/29/14 20:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/29/14 20:34	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/29/14 20:34	79-01-6	
Trichlorofluoromethane	**0.47J**	ug/L	1.0	1		05/29/14 20:34	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/29/14 20:34	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/29/14 20:34	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/29/14 20:34	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		05/29/14 20:34	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/29/14 20:34	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1		05/29/14 20:34	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		05/29/14 20:34	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		05/29/14 20:34	2037-26-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-MW9 **Lab ID: 92203023003** Collected: 05/27/14 13:55 Received: 05/28/14 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**18300**	ug/L	5000	1		06/02/14 13:03		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**107000**	ug/L	25000	1		06/03/14 05:37		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	ug/L	100	1		06/03/14 15:47	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	ND	ug/L	2000	1		06/02/14 21:55	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**3610**	ug/L	1000	1		06/06/14 22:19	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	ug/L	5.0	1		06/01/14 14:32	57-12-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-MW14 **Lab ID: 92203023004** Collected: 05/27/14 15:00 Received: 05/28/14 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:							
Collected By	**JJQ**			1		06/10/14 11:09		
Collected Date	**05/27/14**			1		06/10/14 11:09		
Collected Time	**15:00**			1		06/10/14 11:09		
Field pH	**5.5**	Std. Units	0.10	1		06/10/14 11:09		
Field Temperature	**17.7**	deg C	0.50	1		06/10/14 11:09		
Static Water Level	**51.80**	feet		1		06/10/14 11:09		
Field Specific Conductance	**156**	umhos/cm	1.0	1		06/10/14 11:09		
Oxygen, Dissolved	**8.1**	mg/L		1		06/10/14 11:09	7782-44-7	
Total Well Depth	**60**	feet		1		06/10/14 11:09		
REDOX	**437**	mV		1		06/10/14 11:09		
Turbidity	**118**	NTU	1.0	1		06/10/14 11:09		
Odor	**NONE**			1		06/10/14 11:09		
Appearance	**MURKY**			1		06/10/14 11:09		
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 20:40	7440-36-0	
Arsenic	ND	ug/L	10.0	1	06/02/14 17:30	06/03/14 20:40	7440-38-2	
Barium	**163**	ug/L	5.0	1	06/02/14 17:30	06/03/14 20:40	7440-39-3	
Beryllium	ND	ug/L	1.0	1	06/02/14 17:30	06/03/14 20:40	7440-41-7	
Cadmium	ND	ug/L	1.0	1	06/02/14 17:30	06/03/14 20:40	7440-43-9	
Chromium	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 20:40	7440-47-3	
Cobalt	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 20:40	7440-48-4	
Copper	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 20:40	7440-50-8	
Iron	**142**	ug/L	50.0	1	06/02/14 17:30	06/03/14 20:40	7439-89-6	
Lead	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 20:40	7439-92-1	
Manganese	**40.2**	ug/L	5.0	1	06/02/14 17:30	06/03/14 20:40	7439-96-5	
Nickel	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 20:40	7440-02-0	
Selenium	ND	ug/L	10.0	1	06/02/14 17:30	06/03/14 20:40	7782-49-2	
Silver	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 20:40	7440-22-4	
Sodium	**12800**	ug/L	5000	1	06/02/14 17:30	06/03/14 20:40	7440-23-5	
Thallium	ND	ug/L	5.4	1	06/02/14 17:30	06/03/14 20:40	7440-28-0	
Tin	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 20:40	7440-31-5	
Vanadium	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 20:40	7440-62-2	
Zinc	**11.7**	ug/L	10.0	1	06/02/14 17:30	06/03/14 20:40	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	05/30/14 20:30	06/02/14 18:49	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		05/29/14 20:50	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		05/29/14 20:50	107-13-1	
Benzene	ND	ug/L	1.0	1		05/29/14 20:50	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		05/29/14 20:50	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/29/14 20:50	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/29/14 20:50	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/29/14 20:50	74-83-9	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-MW14 **Lab ID: 92203023004** Collected: 05/27/14 15:00 Received: 05/28/14 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
2-Butanone (MEK)	ND	ug/L	5.0	1		05/29/14 20:50	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		05/29/14 20:50	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/29/14 20:50	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/29/14 20:50	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/29/14 20:50	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/29/14 20:50	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/29/14 20:50	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/29/14 20:50	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/29/14 20:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/29/14 20:50	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/29/14 20:50	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/29/14 20:50	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/29/14 20:50	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		05/29/14 20:50	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/29/14 20:50	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/29/14 20:50	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/29/14 20:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/29/14 20:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/29/14 20:50	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/29/14 20:50	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/29/14 20:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/29/14 20:50	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/29/14 20:50	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		05/29/14 20:50	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/29/14 20:50	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		05/29/14 20:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/29/14 20:50	108-10-1	
Styrene	ND	ug/L	1.0	1		05/29/14 20:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/29/14 20:50	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/29/14 20:50	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/29/14 20:50	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		05/29/14 20:50	109-99-9	
Toluene	ND	ug/L	1.0	1		05/29/14 20:50	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/29/14 20:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/29/14 20:50	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/29/14 20:50	79-01-6	
Trichlorofluoromethane	**0.34J**	ug/L	1.0	1		05/29/14 20:50	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/29/14 20:50	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/29/14 20:50	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/29/14 20:50	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		05/29/14 20:50	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/29/14 20:50	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	95	%	70-130	1		05/29/14 20:50	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		05/29/14 20:50	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		05/29/14 20:50	2037-26-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-MW14 **Lab ID: 92203023004** Collected: 05/27/14 15:00 Received: 05/28/14 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**37400**	ug/L	5000	1		06/02/14 13:14		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**124000**	ug/L	25000	1		06/03/14 05:37		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	ug/L	100	1		06/03/14 15:47	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	ND	ug/L	2000	1		06/02/14 22:36	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**3630**	ug/L	1000	1		06/06/14 22:19	16887-00-6	M1
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	ug/L	5.0	1		06/09/14 10:37	57-12-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-MW15 **Lab ID: 92203023005** Collected: 05/27/14 16:40 Received: 05/28/14 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:							
Collected By	**JJQ**			1		06/10/14 11:10		
Collected Date	**05/27/14**			1		06/10/14 11:10		
Collected Time	**16:40**			1		06/10/14 11:10		
Field pH	**6.3**	Std. Units	0.10	1		06/10/14 11:10		
Field Temperature	**17.8**	deg C	0.50	1		06/10/14 11:10		
Static Water Level	**38.45**	feet		1		06/10/14 11:10		
Field Specific Conductance	**623**	umhos/cm	1.0	1		06/10/14 11:10		
Oxygen, Dissolved	**5.4**	mg/L		1		06/10/14 11:10	7782-44-7	
Total Well Depth	**50.85**	feet		1		06/10/14 11:10		
REDOX	**406**	mV		1		06/10/14 11:10		
Turbidity	**50**	NTU	1.0	1		06/10/14 11:10		
Odor	**NONE**			1		06/10/14 11:10		
Appearance	**MURKY**			1		06/10/14 11:10		
8081 Organochlorine Pesticides	Analytical Method: EPA 8081	Preparation Method: EPA 3510						
Aldrin	ND	ug/L	0.050	1	05/28/14 18:00	05/30/14 18:17	309-00-2	
alpha-BHC	ND	ug/L	0.050	1	05/28/14 18:00	05/30/14 18:17	319-84-6	
delta-BHC	ND	ug/L	0.050	1	05/28/14 18:00	05/30/14 18:17	319-86-8	
4,4'-DDD	ND	ug/L	0.050	1	05/28/14 18:00	05/30/14 18:17	72-54-8	
4,4'-DDT	ND	ug/L	0.050	1	05/28/14 18:00	05/30/14 18:17	50-29-3	
Endosulfan II	ND	ug/L	0.050	1	05/28/14 18:00	05/30/14 18:17	33213-65-9	
Endrin	ND	ug/L	0.050	1	05/28/14 18:00	05/30/14 18:17	72-20-8	
Endrin aldehyde	ND	ug/L	0.050	1	05/28/14 18:00	05/30/14 18:17	7421-93-4	
Heptachlor	ND	ug/L	0.050	1	05/28/14 18:00	05/30/14 18:17	76-44-8	
Methoxychlor	ND	ug/L	0.15	1	05/28/14 18:00	05/30/14 18:17	72-43-5	
Surrogates								
Tetrachloro-m-xylene (S)	74	%	20-130	1	05/28/14 18:00	05/30/14 18:17	877-09-8	
Decachlorobiphenyl (S)	89	%	20-130	1	05/28/14 18:00	05/30/14 18:17	2051-24-3	
8151 Chlorinated Herbicides	Analytical Method: EPA 8151	Preparation Method: EPA 8151						
2,4-D	ND	ug/L	0.94	1	06/02/14 08:55	06/03/14 06:31	94-75-7	
2,4,5-TP (Silvex)	ND	ug/L	0.19	1	06/02/14 08:55	06/03/14 06:31	93-72-1	
Surrogates								
2,4-DCAA (S)	84	%	65.5-125.7	1	06/02/14 08:55	06/03/14 06:31	19719-28-9	
6010 ICP Groundwater	Analytical Method: EPA 6010	Preparation Method: EPA 3010						
Antimony	ND	ug/L	5.0	1	06/03/14 12:30	06/05/14 00:10	7440-36-0	
Arsenic	ND	ug/L	10.0	1	06/03/14 12:30	06/05/14 00:10	7440-38-2	
Barium	**8.6**	ug/L	5.0	1	06/03/14 12:30	06/05/14 00:10	7440-39-3	
Beryllium	ND	ug/L	1.0	1	06/03/14 12:30	06/05/14 00:10	7440-41-7	
Cadmium	ND	ug/L	1.0	1	06/03/14 12:30	06/05/14 00:10	7440-43-9	
Chromium	ND	ug/L	5.0	1	06/03/14 12:30	06/05/14 00:10	7440-47-3	
Cobalt	ND	ug/L	5.0	1	06/03/14 12:30	06/05/14 00:10	7440-48-4	
Copper	ND	ug/L	5.0	1	06/03/14 12:30	06/05/14 00:10	7440-50-8	
Iron	**292**	ug/L	50.0	1	06/03/14 12:30	06/05/14 00:10	7439-89-6	
Lead	ND	ug/L	5.0	1	06/03/14 12:30	06/05/14 00:10	7439-92-1	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-MW15 **Lab ID: 92203023005** Collected: 05/27/14 16:40 Received: 05/28/14 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Manganese	**34.7**	ug/L	5.0	1	06/03/14 12:30	06/05/14 00:10	7439-96-5	
Nickel	ND	ug/L	5.0	1	06/03/14 12:30	06/05/14 00:10	7440-02-0	
Selenium	ND	ug/L	10.0	1	06/03/14 12:30	06/05/14 00:10	7782-49-2	
Silver	ND	ug/L	5.0	1	06/03/14 12:30	06/05/14 00:10	7440-22-4	
Sodium	**24200**	ug/L	5000	1	06/03/14 12:30	06/05/14 00:10	7440-23-5	
Thallium	ND	ug/L	5.4	1	06/03/14 12:30	06/05/14 00:10	7440-28-0	
Tin	ND	ug/L	5.0	1	06/03/14 12:30	06/05/14 00:10	7440-31-5	
Vanadium	ND	ug/L	5.0	1	06/03/14 12:30	06/05/14 00:10	7440-62-2	
Zinc	ND	ug/L	10.0	1	06/03/14 12:30	06/05/14 00:10	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	05/30/14 20:30	06/02/14 18:52	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Benzo(a)anthracene	ND	ug/L	10.0	1	06/03/14 14:00	06/04/14 15:22	56-55-3	
Chrysene	ND	ug/L	10.0	1	06/03/14 14:00	06/04/14 15:22	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	1	06/03/14 14:00	06/04/14 15:22	117-81-7	
Surrogates								
Nitrobenzene-d5 (S)	77	%	21-110	1	06/03/14 14:00	06/04/14 15:22	4165-60-0	
2-Fluorobiphenyl (S)	86	%	27-110	1	06/03/14 14:00	06/04/14 15:22	321-60-8	
Terphenyl-d14 (S)	71	%	31-107	1	06/03/14 14:00	06/04/14 15:22	1718-51-0	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		05/29/14 21:07	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		05/29/14 21:07	107-13-1	
Benzene	ND	ug/L	1.0	1		05/29/14 21:07	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		05/29/14 21:07	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/29/14 21:07	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/29/14 21:07	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/29/14 21:07	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/29/14 21:07	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		05/29/14 21:07	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/29/14 21:07	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/29/14 21:07	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/29/14 21:07	75-00-3	
Chloroform	**0.49J**	ug/L	1.0	1		05/29/14 21:07	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/29/14 21:07	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/29/14 21:07	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/29/14 21:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/29/14 21:07	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/29/14 21:07	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/29/14 21:07	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/29/14 21:07	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		05/29/14 21:07	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/29/14 21:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/29/14 21:07	107-06-2	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-MW15 **Lab ID: 92203023005** Collected: 05/27/14 16:40 Received: 05/28/14 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
1,1-Dichloroethene	ND	ug/L	1.0	1		05/29/14 21:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/29/14 21:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/29/14 21:07	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/29/14 21:07	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/29/14 21:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/29/14 21:07	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/29/14 21:07	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		05/29/14 21:07	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/29/14 21:07	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		05/29/14 21:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/29/14 21:07	108-10-1	
Styrene	ND	ug/L	1.0	1		05/29/14 21:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/29/14 21:07	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/29/14 21:07	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/29/14 21:07	127-18-4	
Tetrahydrofuran	**21.4**	ug/L	10.0	1		05/29/14 21:07	109-99-9	
Toluene	ND	ug/L	1.0	1		05/29/14 21:07	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/29/14 21:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/29/14 21:07	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/29/14 21:07	79-01-6	
Trichlorofluoromethane	**5.3**	ug/L	1.0	1		05/29/14 21:07	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/29/14 21:07	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/29/14 21:07	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/29/14 21:07	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		05/29/14 21:07	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/29/14 21:07	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1		05/29/14 21:07	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		05/29/14 21:07	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1		05/29/14 21:07	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**96600**	ug/L	5000	1		06/02/14 13:25		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**373000**	ug/L	25000	1		06/03/14 05:38		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	ug/L	100	1		06/03/14 15:47	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**59500**	ug/L	10000	5		06/03/14 09:34	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**83400**	ug/L	10000	10		06/06/14 22:21	16887-00-6	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-MW15 **Lab ID: 92203023005** Collected: 05/27/14 16:40 Received: 05/28/14 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	ug/L	5.0	1		06/09/14 10:37	57-12-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-MW10 **Lab ID: 92203023006** Collected: 05/28/14 09:00 Received: 05/28/14 17:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:							
Collected By	**JJQ**			1		06/10/14 11:05		
Collected Date	**05/28/14**			1		06/10/14 11:05		
Collected Time	**09:00**			1		06/10/14 11:05		
Field pH	**5.0**	Std. Units	0.10	1		06/10/14 11:05		
Field Temperature	**15.0**	deg C	0.50	1		06/10/14 11:05		
Static Water Level	**11.34**	feet		1		06/10/14 11:05		
Field Specific Conductance	**86**	umhos/cm	1.0	1		06/10/14 11:05		
Oxygen, Dissolved	**8.3**	mg/L		1		06/10/14 11:05	7782-44-7	
Total Well Depth	**21.0**	feet		1		06/10/14 11:05		
REDOX	**436**	mV		1		06/10/14 11:05		
Turbidity	**4**	NTU	1.0	1		06/10/14 11:05		
Odor	**NONE**			1		06/10/14 11:05		
Appearance	**CLEAR**			1		06/10/14 11:05		
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:17	7440-36-0	
Arsenic	ND	ug/L	10.0	1	06/02/14 17:30	06/03/14 21:17	7440-38-2	
Barium	**132**	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:17	7440-39-3	
Beryllium	ND	ug/L	1.0	1	06/02/14 17:30	06/03/14 21:17	7440-41-7	
Cadmium	ND	ug/L	1.0	1	06/02/14 17:30	06/03/14 21:17	7440-43-9	
Chromium	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:17	7440-47-3	
Cobalt	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:17	7440-48-4	
Copper	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:17	7440-50-8	
Iron	ND	ug/L	50.0	1	06/02/14 17:30	06/03/14 21:17	7439-89-6	
Lead	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:17	7439-92-1	
Manganese	**10.9**	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:17	7439-96-5	
Nickel	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:17	7440-02-0	
Selenium	ND	ug/L	10.0	1	06/02/14 17:30	06/03/14 21:17	7782-49-2	
Silver	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:17	7440-22-4	
Sodium	ND	ug/L	5000	1	06/02/14 17:30	06/03/14 21:17	7440-23-5	
Thallium	ND	ug/L	5.4	1	06/02/14 17:30	06/03/14 21:17	7440-28-0	
Tin	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:17	7440-31-5	
Vanadium	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:17	7440-62-2	
Zinc	ND	ug/L	10.0	1	06/02/14 17:30	06/03/14 21:17	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	**0.51**	ug/L	0.20	1	05/30/14 20:30	06/02/14 19:02	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		05/29/14 21:23	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		05/29/14 21:23	107-13-1	
Benzene	ND	ug/L	1.0	1		05/29/14 21:23	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		05/29/14 21:23	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/29/14 21:23	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/29/14 21:23	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/29/14 21:23	74-83-9	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-MW10 **Lab ID: 92203023006** Collected: 05/28/14 09:00 Received: 05/28/14 17:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
2-Butanone (MEK)	ND	ug/L	5.0	1		05/29/14 21:23	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		05/29/14 21:23	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/29/14 21:23	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/29/14 21:23	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/29/14 21:23	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/29/14 21:23	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/29/14 21:23	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/29/14 21:23	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/29/14 21:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/29/14 21:23	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/29/14 21:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/29/14 21:23	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/29/14 21:23	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		05/29/14 21:23	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/29/14 21:23	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/29/14 21:23	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/29/14 21:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/29/14 21:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/29/14 21:23	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/29/14 21:23	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/29/14 21:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/29/14 21:23	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/29/14 21:23	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		05/29/14 21:23	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/29/14 21:23	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		05/29/14 21:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/29/14 21:23	108-10-1	
Styrene	ND	ug/L	1.0	1		05/29/14 21:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/29/14 21:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/29/14 21:23	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/29/14 21:23	127-18-4	
Tetrahydrofuran	**18.6**	ug/L	10.0	1		05/29/14 21:23	109-99-9	
Toluene	ND	ug/L	1.0	1		05/29/14 21:23	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/29/14 21:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/29/14 21:23	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/29/14 21:23	79-01-6	
Trichlorofluoromethane	**0.20J**	ug/L	1.0	1		05/29/14 21:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/29/14 21:23	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/29/14 21:23	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/29/14 21:23	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		05/29/14 21:23	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/29/14 21:23	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1		05/29/14 21:23	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		05/29/14 21:23	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		05/29/14 21:23	2037-26-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-MW10 **Lab ID: 92203023006** Collected: 05/28/14 09:00 Received: 05/28/14 17:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**31400**	ug/L	5000	1		06/02/14 13:37		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**63000**	ug/L	25000	1		06/04/14 04:17		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	ug/L	100	1		06/03/14 15:47	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	ND	ug/L	2000	1		06/02/14 23:44	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**1820**	ug/L	1000	1		06/10/14 15:26	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	ug/L	5.0	1		06/09/14 10:44	57-12-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-MW11 **Lab ID: 92203023007** Collected: 05/28/14 10:15 Received: 05/28/14 17:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:							
Collected By	**JJQ**			1		06/10/14 11:06		
Collected Date	**05/28/14**			1		06/10/14 11:06		
Collected Time	**10:15**			1		06/10/14 11:06		
Field pH	**6.0**	Std. Units	0.10	1		06/10/14 11:06		
Field Temperature	**14.4**	deg C	0.50	1		06/10/14 11:06		
Static Water Level	**4.19**	feet		1		06/10/14 11:06		
Field Specific Conductance	**430**	umhos/cm	1.0	1		06/10/14 11:06		
Oxygen, Dissolved	**7.5**	mg/L		1		06/10/14 11:06	7782-44-7	
Total Well Depth	**20.0**	feet		1		06/10/14 11:06		
REDOX	**27**	mV		1		06/10/14 11:06		
Turbidity	**22**	NTU	1.0	1		06/10/14 11:06		
Odor	**NONE**			1		06/10/14 11:06		
Appearance	**CLEAR**			1		06/10/14 11:06		
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:20	7440-36-0	
Arsenic	ND	ug/L	10.0	1	06/02/14 17:30	06/03/14 21:20	7440-38-2	
Barium	**94.3**	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:20	7440-39-3	
Beryllium	ND	ug/L	1.0	1	06/02/14 17:30	06/03/14 21:20	7440-41-7	
Cadmium	ND	ug/L	1.0	1	06/02/14 17:30	06/03/14 21:20	7440-43-9	
Chromium	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:20	7440-47-3	
Cobalt	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:20	7440-48-4	
Copper	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:20	7440-50-8	
Iron	**33400**	ug/L	50.0	1	06/02/14 17:30	06/03/14 21:20	7439-89-6	
Lead	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:20	7439-92-1	
Manganese	**1960**	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:20	7439-96-5	
Nickel	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:20	7440-02-0	
Selenium	ND	ug/L	10.0	1	06/02/14 17:30	06/03/14 21:20	7782-49-2	
Silver	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:20	7440-22-4	
Sodium	**8490**	ug/L	5000	1	06/02/14 17:30	06/03/14 21:20	7440-23-5	
Thallium	ND	ug/L	5.4	1	06/02/14 17:30	06/03/14 21:20	7440-28-0	
Tin	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:20	7440-31-5	
Vanadium	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:20	7440-62-2	
Zinc	ND	ug/L	10.0	1	06/02/14 17:30	06/03/14 21:20	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	05/30/14 20:30	06/02/14 19:05	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		05/29/14 21:40	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		05/29/14 21:40	107-13-1	
Benzene	ND	ug/L	1.0	1		05/29/14 21:40	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		05/29/14 21:40	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/29/14 21:40	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/29/14 21:40	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/29/14 21:40	74-83-9	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-MW11 **Lab ID: 92203023007** Collected: 05/28/14 10:15 Received: 05/28/14 17:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
2-Butanone (MEK)	ND	ug/L	5.0	1		05/29/14 21:40	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		05/29/14 21:40	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/29/14 21:40	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/29/14 21:40	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/29/14 21:40	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/29/14 21:40	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/29/14 21:40	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/29/14 21:40	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/29/14 21:40	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/29/14 21:40	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/29/14 21:40	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/29/14 21:40	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/29/14 21:40	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		05/29/14 21:40	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/29/14 21:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/29/14 21:40	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/29/14 21:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/29/14 21:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/29/14 21:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/29/14 21:40	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/29/14 21:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/29/14 21:40	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/29/14 21:40	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		05/29/14 21:40	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/29/14 21:40	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		05/29/14 21:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/29/14 21:40	108-10-1	
Styrene	ND	ug/L	1.0	1		05/29/14 21:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/29/14 21:40	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/29/14 21:40	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/29/14 21:40	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		05/29/14 21:40	109-99-9	
Toluene	ND	ug/L	1.0	1		05/29/14 21:40	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/29/14 21:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/29/14 21:40	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/29/14 21:40	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/29/14 21:40	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/29/14 21:40	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/29/14 21:40	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/29/14 21:40	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		05/29/14 21:40	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/29/14 21:40	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1		05/29/14 21:40	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		05/29/14 21:40	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		05/29/14 21:40	2037-26-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-MW11 **Lab ID: 92203023007** Collected: 05/28/14 10:15 Received: 05/28/14 17:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**175000**	ug/L	5000	1		06/02/14 13:48		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**207000**	ug/L	25000	1		06/04/14 04:18		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	ug/L	100	1		06/03/14 15:47	18496-25-8	M1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**10700**	ug/L	2000	1		06/02/14 23:57	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**12400**	ug/L	1000	1		06/10/14 15:27	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	ug/L	5.0	1		06/09/14 10:44	57-12-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-MW12 **Lab ID: 92203023008** Collected: 05/28/14 11:10 Received: 05/28/14 17:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:							
Collected By	**JJQ**			1		06/10/14 11:07		
Collected Date	**05/28/14**			1		06/10/14 11:07		
Collected Time	**11:10**			1		06/10/14 11:07		
Field pH	**5.9**	Std. Units	0.10	1		06/10/14 11:07		
Field Temperature	**15.0**	deg C	0.50	1		06/10/14 11:07		
Static Water Level	**4.85**	feet		1		06/10/14 11:07		
Field Specific Conductance	**243**	umhos/cm	1.0	1		06/10/14 11:07		
Oxygen, Dissolved	**8.4**	mg/L		1		06/10/14 11:07	7782-44-7	
Total Well Depth	**15.58**	feet		1		06/10/14 11:07		
REDOX	**315**	mV		1		06/10/14 11:07		
Turbidity	**15**	NTU	1.0	1		06/10/14 11:07		
Odor	**NONE**			1		06/10/14 11:07		
Appearance	**CLEAR**			1		06/10/14 11:07		
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:24	7440-36-0	
Arsenic	ND	ug/L	10.0	1	06/02/14 17:30	06/03/14 21:24	7440-38-2	
Barium	**61.1**	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:24	7440-39-3	
Beryllium	ND	ug/L	1.0	1	06/02/14 17:30	06/03/14 21:24	7440-41-7	
Cadmium	ND	ug/L	1.0	1	06/02/14 17:30	06/03/14 21:24	7440-43-9	
Chromium	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:24	7440-47-3	
Cobalt	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:24	7440-48-4	
Copper	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:24	7440-50-8	
Iron	**348**	ug/L	50.0	1	06/02/14 17:30	06/03/14 21:24	7439-89-6	
Lead	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:24	7439-92-1	
Manganese	**14.6**	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:24	7439-96-5	
Nickel	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:24	7440-02-0	
Selenium	ND	ug/L	10.0	1	06/02/14 17:30	06/03/14 21:24	7782-49-2	
Silver	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:24	7440-22-4	
Sodium	**11000**	ug/L	5000	1	06/02/14 17:30	06/03/14 21:24	7440-23-5	
Thallium	ND	ug/L	5.4	1	06/02/14 17:30	06/03/14 21:24	7440-28-0	
Tin	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:24	7440-31-5	
Vanadium	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:24	7440-62-2	
Zinc	ND	ug/L	10.0	1	06/02/14 17:30	06/03/14 21:24	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	05/30/14 20:30	06/02/14 19:07	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		05/29/14 21:56	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		05/29/14 21:56	107-13-1	
Benzene	ND	ug/L	1.0	1		05/29/14 21:56	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		05/29/14 21:56	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/29/14 21:56	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/29/14 21:56	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/29/14 21:56	74-83-9	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-MW12 **Lab ID: 92203023008** Collected: 05/28/14 11:10 Received: 05/28/14 17:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
2-Butanone (MEK)	ND	ug/L	5.0	1		05/29/14 21:56	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		05/29/14 21:56	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/29/14 21:56	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/29/14 21:56	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/29/14 21:56	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/29/14 21:56	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/29/14 21:56	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/29/14 21:56	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/29/14 21:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/29/14 21:56	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/29/14 21:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/29/14 21:56	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/29/14 21:56	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		05/29/14 21:56	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/29/14 21:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/29/14 21:56	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/29/14 21:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/29/14 21:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/29/14 21:56	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/29/14 21:56	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/29/14 21:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/29/14 21:56	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/29/14 21:56	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		05/29/14 21:56	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/29/14 21:56	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		05/29/14 21:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/29/14 21:56	108-10-1	
Styrene	ND	ug/L	1.0	1		05/29/14 21:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/29/14 21:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/29/14 21:56	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/29/14 21:56	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		05/29/14 21:56	109-99-9	
Toluene	ND	ug/L	1.0	1		05/29/14 21:56	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/29/14 21:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/29/14 21:56	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/29/14 21:56	79-01-6	
Trichlorofluoromethane	**0.32J**	ug/L	1.0	1		05/29/14 21:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/29/14 21:56	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/29/14 21:56	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/29/14 21:56	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		05/29/14 21:56	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/29/14 21:56	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1		05/29/14 21:56	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		05/29/14 21:56	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		05/29/14 21:56	2037-26-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-MW12 **Lab ID: 92203023008** Collected: 05/28/14 11:10 Received: 05/28/14 17:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**45500**	ug/L	5000	1		06/02/14 14:02		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**149000**	ug/L	25000	1		06/04/14 04:18		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	ug/L	100	1		06/03/14 15:47	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**48000**	ug/L	4000	2		06/03/14 09:47	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**6180**	ug/L	1000	1		06/10/14 15:14	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	ug/L	5.0	1		06/09/14 10:45	57-12-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-MW13 **Lab ID: 92203023009** Collected: 05/28/14 12:00 Received: 05/28/14 17:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:							
Collected By	**JJQ**			1		06/10/14 11:08		
Collected Date	**05/28/14**			1		06/10/14 11:08		
Collected Time	**12:00**			1		06/10/14 11:08		
Field pH	**5.6**	Std. Units	0.10	1		06/10/14 11:08		
Field Temperature	**16.6**	deg C	0.50	1		06/10/14 11:08		
Static Water Level	**8.96**	feet		1		06/10/14 11:08		
Field Specific Conductance	**149**	umhos/cm	1.0	1		06/10/14 11:08		
Oxygen, Dissolved	**6.8**	mg/L		1		06/10/14 11:08	7782-44-7	
Total Well Depth	**20**	feet		1		06/10/14 11:08		
REDOX	**367**	mV		1		06/10/14 11:08		
Turbidity	**147**	NTU	1.0	1		06/10/14 11:08		
Odor	**NONE**			1		06/10/14 11:08		
Appearance	**MURKY**			1		06/10/14 11:08		
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:29	7440-36-0	
Arsenic	ND	ug/L	10.0	1	06/02/14 17:30	06/03/14 21:29	7440-38-2	
Barium	**77.1**	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:29	7440-39-3	
Beryllium	ND	ug/L	1.0	1	06/02/14 17:30	06/03/14 21:29	7440-41-7	
Cadmium	ND	ug/L	1.0	1	06/02/14 17:30	06/03/14 21:29	7440-43-9	
Chromium	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:29	7440-47-3	
Cobalt	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:29	7440-48-4	
Copper	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:29	7440-50-8	
Iron	**232**	ug/L	50.0	1	06/02/14 17:30	06/03/14 21:29	7439-89-6	
Lead	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:29	7439-92-1	
Manganese	**34.1**	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:29	7439-96-5	
Nickel	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:29	7440-02-0	
Selenium	ND	ug/L	10.0	1	06/02/14 17:30	06/03/14 21:29	7782-49-2	
Silver	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:29	7440-22-4	
Sodium	**11200**	ug/L	5000	1	06/02/14 17:30	06/03/14 21:29	7440-23-5	
Thallium	ND	ug/L	5.4	1	06/02/14 17:30	06/03/14 21:29	7440-28-0	
Tin	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:29	7440-31-5	
Vanadium	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:29	7440-62-2	
Zinc	**17.2**	ug/L	10.0	1	06/02/14 17:30	06/03/14 21:29	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	06/03/14 18:15	06/04/14 10:48	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		05/29/14 22:13	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		05/29/14 22:13	107-13-1	
Benzene	ND	ug/L	1.0	1		05/29/14 22:13	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		05/29/14 22:13	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/29/14 22:13	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/29/14 22:13	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/29/14 22:13	74-83-9	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-MW13 **Lab ID: 92203023009** Collected: 05/28/14 12:00 Received: 05/28/14 17:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
2-Butanone (MEK)	ND	ug/L	5.0	1		05/29/14 22:13	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		05/29/14 22:13	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/29/14 22:13	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/29/14 22:13	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/29/14 22:13	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/29/14 22:13	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/29/14 22:13	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/29/14 22:13	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/29/14 22:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/29/14 22:13	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/29/14 22:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/29/14 22:13	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/29/14 22:13	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		05/29/14 22:13	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/29/14 22:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/29/14 22:13	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/29/14 22:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/29/14 22:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/29/14 22:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/29/14 22:13	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/29/14 22:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/29/14 22:13	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/29/14 22:13	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		05/29/14 22:13	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/29/14 22:13	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		05/29/14 22:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/29/14 22:13	108-10-1	
Styrene	ND	ug/L	1.0	1		05/29/14 22:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/29/14 22:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/29/14 22:13	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/29/14 22:13	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		05/29/14 22:13	109-99-9	
Toluene	ND	ug/L	1.0	1		05/29/14 22:13	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/29/14 22:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/29/14 22:13	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/29/14 22:13	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/29/14 22:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/29/14 22:13	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/29/14 22:13	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/29/14 22:13	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		05/29/14 22:13	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/29/14 22:13	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1		05/29/14 22:13	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		05/29/14 22:13	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		05/29/14 22:13	2037-26-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-MW13 **Lab ID: 92203023009** Collected: 05/28/14 12:00 Received: 05/28/14 17:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**46400**	ug/L	5000	1		06/02/14 14:13		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**113000**	ug/L	25000	1		06/04/14 04:18		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	ug/L	100	1		06/03/14 15:47	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**8680**	ug/L	2000	1		06/03/14 00:24	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**3880**	ug/L	1000	1		06/10/14 15:16	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	ug/L	5.0	1		06/09/14 10:46	57-12-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-MW3R **Lab ID: 92203023010** Collected: 05/28/14 13:20 Received: 05/28/14 17:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:							
Collected By	**JJQ**			1		06/10/14 10:59		
Collected Date	**05/28/14**			1		06/10/14 10:59		
Collected Time	**13:20**			1		06/10/14 10:59		
Field pH	**6.0**	Std. Units	0.10	1		06/10/14 10:59		
Field Temperature	**18.7**	deg C	0.50	1		06/10/14 10:59		
Static Water Level	**18.93**	feet		1		06/10/14 10:59		
Field Specific Conductance	**367**	umhos/cm	1.0	1		06/10/14 10:59		
Oxygen, Dissolved	**6.3**	mg/L		1		06/10/14 10:59	7782-44-7	
Total Well Depth	**27**	feet		1		06/10/14 10:59		
REDOX	**146**	mV		1		06/10/14 10:59		
Turbidity	**6**	NTU	1.0	1		06/10/14 10:59		
Odor	**NONE**			1		06/10/14 10:59		
Appearance	**CLEAR**			1		06/10/14 10:59		
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:32	7440-36-0	
Arsenic	**8.9J**	ug/L	10.0	1	06/02/14 17:30	06/03/14 21:32	7440-38-2	
Barium	**205**	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:32	7440-39-3	
Beryllium	ND	ug/L	1.0	1	06/02/14 17:30	06/03/14 21:32	7440-41-7	
Cadmium	ND	ug/L	1.0	1	06/02/14 17:30	06/03/14 21:32	7440-43-9	
Chromium	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:32	7440-47-3	
Cobalt	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:32	7440-48-4	
Copper	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:32	7440-50-8	
Iron	**38200**	ug/L	50.0	1	06/02/14 17:30	06/03/14 21:32	7439-89-6	
Lead	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:32	7439-92-1	
Manganese	**9260**	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:32	7439-96-5	
Nickel	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:32	7440-02-0	
Selenium	ND	ug/L	10.0	1	06/02/14 17:30	06/03/14 21:32	7782-49-2	
Silver	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:32	7440-22-4	
Sodium	ND	ug/L	5000	1	06/02/14 17:30	06/03/14 21:32	7440-23-5	
Thallium	ND	ug/L	5.4	1	06/02/14 17:30	06/03/14 21:32	7440-28-0	
Tin	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:32	7440-31-5	
Vanadium	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:32	7440-62-2	
Zinc	ND	ug/L	10.0	1	06/02/14 17:30	06/03/14 21:32	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	06/03/14 18:15	06/04/14 10:51	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		05/29/14 22:29	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		05/29/14 22:29	107-13-1	
Benzene	ND	ug/L	1.0	1		05/29/14 22:29	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		05/29/14 22:29	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/29/14 22:29	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/29/14 22:29	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/29/14 22:29	74-83-9	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-MW3R **Lab ID: 92203023010** Collected: 05/28/14 13:20 Received: 05/28/14 17:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
2-Butanone (MEK)	ND	ug/L	5.0	1		05/29/14 22:29	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		05/29/14 22:29	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/29/14 22:29	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/29/14 22:29	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/29/14 22:29	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/29/14 22:29	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/29/14 22:29	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/29/14 22:29	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/29/14 22:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/29/14 22:29	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/29/14 22:29	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/29/14 22:29	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/29/14 22:29	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		05/29/14 22:29	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/29/14 22:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/29/14 22:29	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/29/14 22:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/29/14 22:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/29/14 22:29	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/29/14 22:29	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/29/14 22:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/29/14 22:29	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/29/14 22:29	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		05/29/14 22:29	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/29/14 22:29	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		05/29/14 22:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/29/14 22:29	108-10-1	
Styrene	ND	ug/L	1.0	1		05/29/14 22:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/29/14 22:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/29/14 22:29	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/29/14 22:29	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		05/29/14 22:29	109-99-9	
Toluene	ND	ug/L	1.0	1		05/29/14 22:29	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/29/14 22:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/29/14 22:29	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/29/14 22:29	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/29/14 22:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/29/14 22:29	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/29/14 22:29	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/29/14 22:29	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		05/29/14 22:29	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/29/14 22:29	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		05/29/14 22:29	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		05/29/14 22:29	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1		05/29/14 22:29	2037-26-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-MW3R **Lab ID: 92203023010** Collected: 05/28/14 13:20 Received: 05/28/14 17:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**155000**	ug/L	5000	1		06/02/14 15:16		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**187000**	ug/L	25000	1		06/04/14 04:19		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	ug/L	100	1		06/03/14 15:47	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**4230**	ug/L	2000	1		06/03/14 00:38	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**3260**	ug/L	1000	1		06/10/14 15:17	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	ug/L	5.0	1		06/09/14 10:49	57-12-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-MW7 **Lab ID: 92203023011** Collected: 05/28/14 14:15 Received: 05/28/14 17:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:							
Collected By	**JJQ**			1		06/10/14 11:02		
Collected Date	**05/28/14**			1		06/10/14 11:02		
Collected Time	**14:15**			1		06/10/14 11:02		
Field pH	**5.3**	Std. Units	0.10	1		06/10/14 11:02		
Field Temperature	**17.2**	deg C	0.50	1		06/10/14 11:02		
Static Water Level	**37.05**	feet		1		06/10/14 11:02		
Field Specific Conductance	**171**	umhos/cm	1.0	1		06/10/14 11:02		
Oxygen, Dissolved	**3.8**	mg/L		1		06/10/14 11:02	7782-44-7	
Total Well Depth	**37.05**	feet		1		06/10/14 11:02		
REDOX	**363**	mV		1		06/10/14 11:02		
Turbidity	**6**	NTU	1.0	1		06/10/14 11:02		
Odor	**NONE**			1		06/10/14 11:02		
Appearance	**CLEAR**			1		06/10/14 11:02		
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:36	7440-36-0	
Arsenic	ND	ug/L	10.0	1	06/02/14 17:30	06/03/14 21:36	7440-38-2	
Barium	**90.8**	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:36	7440-39-3	
Beryllium	ND	ug/L	1.0	1	06/02/14 17:30	06/03/14 21:36	7440-41-7	
Cadmium	ND	ug/L	1.0	1	06/02/14 17:30	06/03/14 21:36	7440-43-9	
Chromium	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:36	7440-47-3	
Cobalt	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:36	7440-48-4	
Copper	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:36	7440-50-8	
Iron	ND	ug/L	50.0	1	06/02/14 17:30	06/03/14 21:36	7439-89-6	
Lead	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:36	7439-92-1	
Manganese	**15.5**	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:36	7439-96-5	
Nickel	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:36	7440-02-0	
Selenium	ND	ug/L	10.0	1	06/02/14 17:30	06/03/14 21:36	7782-49-2	
Silver	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:36	7440-22-4	
Sodium	**14200**	ug/L	5000	1	06/02/14 17:30	06/03/14 21:36	7440-23-5	
Thallium	ND	ug/L	5.4	1	06/02/14 17:30	06/03/14 21:36	7440-28-0	
Tin	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:36	7440-31-5	
Vanadium	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:36	7440-62-2	
Zinc	ND	ug/L	10.0	1	06/02/14 17:30	06/03/14 21:36	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	06/03/14 18:15	06/04/14 10:53	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		05/29/14 22:46	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		05/29/14 22:46	107-13-1	
Benzene	ND	ug/L	1.0	1		05/29/14 22:46	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		05/29/14 22:46	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/29/14 22:46	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/29/14 22:46	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/29/14 22:46	74-83-9	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-MW7 **Lab ID: 92203023011** Collected: 05/28/14 14:15 Received: 05/28/14 17:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
2-Butanone (MEK)	ND	ug/L	5.0	1		05/29/14 22:46	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		05/29/14 22:46	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/29/14 22:46	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/29/14 22:46	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/29/14 22:46	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/29/14 22:46	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/29/14 22:46	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/29/14 22:46	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/29/14 22:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/29/14 22:46	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/29/14 22:46	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/29/14 22:46	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/29/14 22:46	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		05/29/14 22:46	110-57-6	
1,1-Dichloroethane	**0.81J**	ug/L	1.0	1		05/29/14 22:46	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/29/14 22:46	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/29/14 22:46	75-35-4	
cis-1,2-Dichloroethene	**0.37J**	ug/L	1.0	1		05/29/14 22:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/29/14 22:46	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/29/14 22:46	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/29/14 22:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/29/14 22:46	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/29/14 22:46	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		05/29/14 22:46	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/29/14 22:46	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		05/29/14 22:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/29/14 22:46	108-10-1	
Styrene	ND	ug/L	1.0	1		05/29/14 22:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/29/14 22:46	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/29/14 22:46	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/29/14 22:46	127-18-4	
Tetrahydrofuran	**5.2J**	ug/L	10.0	1		05/29/14 22:46	109-99-9	
Toluene	ND	ug/L	1.0	1		05/29/14 22:46	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/29/14 22:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/29/14 22:46	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/29/14 22:46	79-01-6	
Trichlorofluoromethane	**0.62J**	ug/L	1.0	1		05/29/14 22:46	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/29/14 22:46	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/29/14 22:46	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/29/14 22:46	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		05/29/14 22:46	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/29/14 22:46	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1		05/29/14 22:46	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		05/29/14 22:46	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		05/29/14 22:46	2037-26-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-MW7 **Lab ID: 92203023011** Collected: 05/28/14 14:15 Received: 05/28/14 17:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**51900**	ug/L	5000	1		06/02/14 15:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**126000**	ug/L	25000	1		06/04/14 04:19		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	ug/L	100	1		06/03/14 15:47	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	ND	ug/L	2000	1		06/03/14 00:52	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**3600**	ug/L	1000	1		06/10/14 15:17	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	ug/L	5.0	1		06/09/14 10:50	57-12-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-MW4R **Lab ID: 92203023012** Collected: 05/28/14 15:35 Received: 05/28/14 17:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:							
Collected By	**JJQ**			1		06/10/14 11:00		
Collected Date	**05/28/14**			1		06/10/14 11:00		
Collected Time	**15:35**			1		06/10/14 11:00		
Field pH	**5.7**	Std. Units	0.10	1		06/10/14 11:00		
Field Temperature	**14.8**	deg C	0.50	1		06/10/14 11:00		
Static Water Level	**7.21**	feet		1		06/10/14 11:00		
Field Specific Conductance	**715**	umhos/cm	1.0	1		06/10/14 11:00		
Oxygen, Dissolved	**6.2**	mg/L		1		06/10/14 11:00	7782-44-7	
Total Well Depth	**20**	feet		1		06/10/14 11:00		
REDOX	**374**	mV		1		06/10/14 11:00		
Turbidity	**17**	NTU	1.0	1		06/10/14 11:00		
Odor	**NONE**			1		06/10/14 11:00		
Appearance	**CLEAR**			1		06/10/14 11:00		
8081 Organochlorine Pesticides	Analytical Method: EPA 8081	Preparation Method: EPA 3510						
Aldrin	ND	ug/L	0.050	1	05/29/14 10:20	05/30/14 19:49	309-00-2	
alpha-BHC	ND	ug/L	0.050	1	05/29/14 10:20	05/30/14 19:49	319-84-6	
delta-BHC	ND	ug/L	0.050	1	05/29/14 10:20	05/30/14 19:49	319-86-8	
4,4'-DDD	ND	ug/L	0.050	1	05/29/14 10:20	05/30/14 19:49	72-54-8	
4,4'-DDT	ND	ug/L	0.050	1	05/29/14 10:20	05/30/14 19:49	50-29-3	
Endosulfan II	ND	ug/L	0.050	1	05/29/14 10:20	05/30/14 19:49	33213-65-9	
Endrin	ND	ug/L	0.050	1	05/29/14 10:20	05/30/14 19:49	72-20-8	
Endrin aldehyde	ND	ug/L	0.050	1	05/29/14 10:20	05/30/14 19:49	7421-93-4	
Heptachlor	ND	ug/L	0.050	1	05/29/14 10:20	05/30/14 19:49	76-44-8	
Methoxychlor	ND	ug/L	0.15	1	05/29/14 10:20	05/30/14 19:49	72-43-5	
Surrogates								
Tetrachloro-m-xylene (S)	55	%	20-130	1	05/29/14 10:20	05/30/14 19:49	877-09-8	
Decachlorobiphenyl (S)	63	%	20-130	1	05/29/14 10:20	05/30/14 19:49	2051-24-3	
8151 Chlorinated Herbicides	Analytical Method: EPA 8151	Preparation Method: EPA 8151						
2,4-D	ND	ug/L	0.94	1	06/02/14 08:55	06/03/14 08:02	94-75-7	
2,4,5-TP (Silvex)	ND	ug/L	0.19	1	06/02/14 08:55	06/03/14 08:02	93-72-1	
Surrogates								
2,4-DCAA (S)	92	%	65.5-125.7	1	06/02/14 08:55	06/03/14 08:02	19719-28-9	
6010 ICP Groundwater	Analytical Method: EPA 6010	Preparation Method: EPA 3010						
Antimony	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:40	7440-36-0	
Arsenic	ND	ug/L	10.0	1	06/02/14 17:30	06/03/14 21:40	7440-38-2	
Barium	**264**	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:40	7440-39-3	
Beryllium	ND	ug/L	1.0	1	06/02/14 17:30	06/03/14 21:40	7440-41-7	
Cadmium	ND	ug/L	1.0	1	06/02/14 17:30	06/03/14 21:40	7440-43-9	
Chromium	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:40	7440-47-3	
Cobalt	**46.6**	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:40	7440-48-4	
Copper	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:40	7440-50-8	
Iron	ND	ug/L	50.0	1	06/02/14 17:30	06/03/14 21:40	7439-89-6	
Lead	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:40	7439-92-1	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-MW4R **Lab ID: 92203023012** Collected: 05/28/14 15:35 Received: 05/28/14 17:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Manganese	**641**	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:40	7439-96-5	
Nickel	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:40	7440-02-0	
Selenium	**11.5**	ug/L	10.0	1	06/02/14 17:30	06/03/14 21:40	7782-49-2	
Silver	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:40	7440-22-4	
Sodium	**39700**	ug/L	5000	1	06/02/14 17:30	06/03/14 21:40	7440-23-5	
Thallium	ND	ug/L	5.4	1	06/02/14 17:30	06/03/14 21:40	7440-28-0	
Tin	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:40	7440-31-5	
Vanadium	ND	ug/L	5.0	1	06/02/14 17:30	06/03/14 21:40	7440-62-2	
Zinc	ND	ug/L	10.0	1	06/02/14 17:30	06/03/14 21:40	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	06/03/14 18:15	06/04/14 10:56	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Benzo(a)anthracene	ND	ug/L	10.0	1	06/03/14 14:00	06/04/14 15:50	56-55-3	
Chrysene	ND	ug/L	10.0	1	06/03/14 14:00	06/04/14 15:50	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	1	06/03/14 14:00	06/04/14 15:50	117-81-7	
Surrogates								
Nitrobenzene-d5 (S)	67	%	21-110	1	06/03/14 14:00	06/04/14 15:50	4165-60-0	
2-Fluorobiphenyl (S)	72	%	27-110	1	06/03/14 14:00	06/04/14 15:50	321-60-8	
Terphenyl-d14 (S)	79	%	31-107	1	06/03/14 14:00	06/04/14 15:50	1718-51-0	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		05/29/14 23:02	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		05/29/14 23:02	107-13-1	
Benzene	**0.28J**	ug/L	1.0	1		05/29/14 23:02	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		05/29/14 23:02	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/29/14 23:02	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/29/14 23:02	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/29/14 23:02	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/29/14 23:02	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		05/29/14 23:02	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/29/14 23:02	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/29/14 23:02	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/29/14 23:02	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/29/14 23:02	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/29/14 23:02	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/29/14 23:02	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/29/14 23:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/29/14 23:02	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/29/14 23:02	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/29/14 23:02	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/29/14 23:02	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		05/29/14 23:02	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/29/14 23:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/29/14 23:02	107-06-2	

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

ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-MW4R **Lab ID: 92203023012** Collected: 05/28/14 15:35 Received: 05/28/14 17:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
1,1-Dichloroethene	ND	ug/L	1.0	1		05/29/14 23:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/29/14 23:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/29/14 23:02	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/29/14 23:02	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/29/14 23:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/29/14 23:02	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/29/14 23:02	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		05/29/14 23:02	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/29/14 23:02	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		05/29/14 23:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/29/14 23:02	108-10-1	
Styrene	ND	ug/L	1.0	1		05/29/14 23:02	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/29/14 23:02	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/29/14 23:02	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/29/14 23:02	127-18-4	
Tetrahydrofuran	**11.8**	ug/L	10.0	1		05/29/14 23:02	109-99-9	
Toluene	ND	ug/L	1.0	1		05/29/14 23:02	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/29/14 23:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/29/14 23:02	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/29/14 23:02	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/29/14 23:02	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/29/14 23:02	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/29/14 23:02	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/29/14 23:02	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		05/29/14 23:02	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/29/14 23:02	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1		05/29/14 23:02	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		05/29/14 23:02	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		05/29/14 23:02	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**222000**	ug/L	5000	1		06/02/14 15:41		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**445000**	ug/L	25000	1		06/04/14 04:20		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	ug/L	100	1		06/03/14 15:47	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**85200**	ug/L	20000	10		06/03/14 10:15	14808-79-8	M6
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**29700**	ug/L	1000	1		06/10/14 15:18	16887-00-6	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-MW4R **Lab ID: 92203023012** Collected: 05/28/14 15:35 Received: 05/28/14 17:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	ug/L	5.0	1		06/09/14 10:51	57-12-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-TRIP BLANK **Lab ID: 92203023013** Collected: 05/27/14 00:00 Received: 05/29/14 17:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		05/31/14 01:39	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		05/31/14 01:39	107-13-1	
Benzene	ND	ug/L	1.0	1		05/31/14 01:39	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		05/31/14 01:39	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/31/14 01:39	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/31/14 01:39	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/31/14 01:39	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/31/14 01:39	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		05/31/14 01:39	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/31/14 01:39	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/31/14 01:39	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/31/14 01:39	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/31/14 01:39	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/31/14 01:39	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/31/14 01:39	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/31/14 01:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/31/14 01:39	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/31/14 01:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/31/14 01:39	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/31/14 01:39	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		05/31/14 01:39	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/31/14 01:39	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/31/14 01:39	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/31/14 01:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/31/14 01:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/31/14 01:39	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/31/14 01:39	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/31/14 01:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/31/14 01:39	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/31/14 01:39	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		05/31/14 01:39	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/31/14 01:39	74-88-4	
Methylene Chloride	**1.1**	ug/L	1.0	1		05/31/14 01:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/31/14 01:39	108-10-1	
Styrene	ND	ug/L	1.0	1		05/31/14 01:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/31/14 01:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/31/14 01:39	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/31/14 01:39	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		05/31/14 01:39	109-99-9	
Toluene	ND	ug/L	1.0	1		05/31/14 01:39	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/31/14 01:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/31/14 01:39	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/31/14 01:39	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/31/14 01:39	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/31/14 01:39	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/31/14 01:39	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/31/14 01:39	75-01-4	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-TRIP BLANK **Lab ID: 92203023013** Collected: 05/27/14 00:00 Received: 05/29/14 17:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
m&p-Xylene	ND	ug/L	2.0	1		05/31/14 01:39	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/31/14 01:39	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		05/31/14 01:39	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		05/31/14 01:39	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		05/31/14 01:39	2037-26-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-MW5R **Lab ID: 92203023014** Collected: 05/29/14 08:55 Received: 05/29/14 17:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:							
Collected By	**JJQ**			1		06/10/14 11:01		
Collected Date	**05/29/14**			1		06/10/14 11:01		
Collected Time	**08:55**			1		06/10/14 11:01		
Field pH	**5.7**	Std. Units	0.10	1		06/10/14 11:01		
Field Temperature	**14.7**	deg C	0.50	1		06/10/14 11:01		
Static Water Level	**10.11**	feet		1		06/10/14 11:01		
Field Specific Conductance	**194**	umhos/cm	1.0	1		06/10/14 11:01		
Oxygen, Dissolved	**8.6**	mg/L		1		06/10/14 11:01	7782-44-7	
Total Well Depth	**30**	feet		1		06/10/14 11:01		
REDOX	**389**	mV		1		06/10/14 11:01		
Turbidity	**10**	NTU	1.0	1		06/10/14 11:01		
Odor	**NONE**			1		06/10/14 11:01		
Appearance	**CLEAR**			1		06/10/14 11:01		
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:15	7440-36-0	
Arsenic	ND	ug/L	10.0	1	06/04/14 16:50	06/06/14 01:15	7440-38-2	
Barium	**54.4**	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:15	7440-39-3	
Beryllium	ND	ug/L	1.0	1	06/04/14 16:50	06/06/14 01:15	7440-41-7	
Cadmium	ND	ug/L	1.0	1	06/04/14 16:50	06/06/14 01:15	7440-43-9	
Chromium	**5.6**	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:15	7440-47-3	
Cobalt	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:15	7440-48-4	
Copper	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:15	7440-50-8	
Iron	**123**	ug/L	50.0	1	06/04/14 16:50	06/06/14 01:15	7439-89-6	
Lead	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:15	7439-92-1	
Manganese	**6.1**	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:15	7439-96-5	
Nickel	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:15	7440-02-0	
Selenium	ND	ug/L	10.0	1	06/04/14 16:50	06/06/14 01:15	7782-49-2	
Silver	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:15	7440-22-4	
Sodium	**13600**	ug/L	5000	1	06/04/14 16:50	06/06/14 01:15	7440-23-5	
Thallium	ND	ug/L	5.4	1	06/04/14 16:50	06/06/14 01:15	7440-28-0	
Tin	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:15	7440-31-5	
Vanadium	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:15	7440-62-2	
Zinc	**11.4**	ug/L	10.0	1	06/04/14 16:50	06/06/14 01:15	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	06/02/14 19:45	06/03/14 19:13	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		05/31/14 07:07	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		05/31/14 07:07	107-13-1	
Benzene	ND	ug/L	1.0	1		05/31/14 07:07	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		05/31/14 07:07	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/31/14 07:07	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/31/14 07:07	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/31/14 07:07	74-83-9	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-MW5R **Lab ID: 92203023014** Collected: 05/29/14 08:55 Received: 05/29/14 17:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
2-Butanone (MEK)	ND	ug/L	5.0	1		05/31/14 07:07	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		05/31/14 07:07	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/31/14 07:07	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/31/14 07:07	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/31/14 07:07	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/31/14 07:07	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/31/14 07:07	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/31/14 07:07	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/31/14 07:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/31/14 07:07	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/31/14 07:07	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/31/14 07:07	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/31/14 07:07	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		05/31/14 07:07	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/31/14 07:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/31/14 07:07	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/31/14 07:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/31/14 07:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/31/14 07:07	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/31/14 07:07	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/31/14 07:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/31/14 07:07	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/31/14 07:07	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		05/31/14 07:07	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/31/14 07:07	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		05/31/14 07:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/31/14 07:07	108-10-1	
Styrene	ND	ug/L	1.0	1		05/31/14 07:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/31/14 07:07	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/31/14 07:07	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/31/14 07:07	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		05/31/14 07:07	109-99-9	
Toluene	ND	ug/L	1.0	1		05/31/14 07:07	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/31/14 07:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/31/14 07:07	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/31/14 07:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/31/14 07:07	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/31/14 07:07	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/31/14 07:07	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/31/14 07:07	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		05/31/14 07:07	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/31/14 07:07	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		05/31/14 07:07	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		05/31/14 07:07	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		05/31/14 07:07	2037-26-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-MW5R **Lab ID: 92203023014** Collected: 05/29/14 08:55 Received: 05/29/14 17:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**31900**	ug/L	5000	1		06/10/14 14:57		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**167000**	ug/L	25000	1		06/04/14 17:20		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	ug/L	100	1		06/04/14 13:25	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**8060**	ug/L	2000	1		06/06/14 01:05	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**13900**	ug/L	1000	1		06/11/14 20:53	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	ug/L	5.0	1		06/09/14 10:58	57-12-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-SW1 **Lab ID: 92203023015** Collected: 05/29/14 13:45 Received: 05/29/14 17:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:							
Collected By	**JJQ**			1		06/10/14 11:11		
Collected Date	**05/29/14**			1		06/10/14 11:11		
Collected Time	**13:45**			1		06/10/14 11:11		
Field pH	**6.4**	Std. Units	0.10	1		06/10/14 11:11		
Field Temperature	**21.2**	deg C	0.50	1		06/10/14 11:11		
Field Specific Conductance	**205**	umhos/cm	1.0	1		06/10/14 11:11		
Oxygen, Dissolved	**5.5**	mg/L		1		06/10/14 11:11	7782-44-7	
REDOX	**284**	mV		1		06/10/14 11:11		
Turbidity	**51**	NTU	1.0	1		06/10/14 11:11		
Odor	**NONE**			1		06/10/14 11:11		
Appearance	**MURKY**			1		06/10/14 11:11		
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:19	7440-36-0	
Arsenic	ND	ug/L	10.0	1	06/04/14 16:50	06/06/14 01:19	7440-38-2	
Barium	**65.8**	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:19	7440-39-3	
Beryllium	ND	ug/L	1.0	1	06/04/14 16:50	06/06/14 01:19	7440-41-7	
Cadmium	ND	ug/L	1.0	1	06/04/14 16:50	06/06/14 01:19	7440-43-9	
Chromium	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:19	7440-47-3	
Cobalt	**9.0**	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:19	7440-48-4	
Copper	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:19	7440-50-8	
Iron	**8210**	ug/L	50.0	1	06/04/14 16:50	06/06/14 01:19	7439-89-6	
Lead	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:19	7439-92-1	
Manganese	**749**	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:19	7439-96-5	
Nickel	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:19	7440-02-0	
Selenium	ND	ug/L	10.0	1	06/04/14 16:50	06/06/14 01:19	7782-49-2	
Silver	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:19	7440-22-4	
Sodium	**14500**	ug/L	5000	1	06/04/14 16:50	06/06/14 01:19	7440-23-5	
Thallium	ND	ug/L	5.4	1	06/04/14 16:50	06/06/14 01:19	7440-28-0	
Tin	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:19	7440-31-5	
Vanadium	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:19	7440-62-2	
Zinc	ND	ug/L	10.0	1	06/04/14 16:50	06/06/14 01:19	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	06/02/14 19:45	06/03/14 19:16	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		05/31/14 07:22	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		05/31/14 07:22	107-13-1	
Benzene	ND	ug/L	1.0	1		05/31/14 07:22	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		05/31/14 07:22	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/31/14 07:22	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/31/14 07:22	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/31/14 07:22	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/31/14 07:22	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		05/31/14 07:22	75-15-0	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-SW1 **Lab ID: 92203023015** Collected: 05/29/14 13:45 Received: 05/29/14 17:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Carbon tetrachloride	ND	ug/L	1.0	1		05/31/14 07:22	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/31/14 07:22	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/31/14 07:22	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/31/14 07:22	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/31/14 07:22	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/31/14 07:22	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/31/14 07:22	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/31/14 07:22	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/31/14 07:22	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/31/14 07:22	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/31/14 07:22	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		05/31/14 07:22	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/31/14 07:22	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/31/14 07:22	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/31/14 07:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/31/14 07:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/31/14 07:22	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/31/14 07:22	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/31/14 07:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/31/14 07:22	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/31/14 07:22	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		05/31/14 07:22	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/31/14 07:22	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		05/31/14 07:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/31/14 07:22	108-10-1	
Styrene	ND	ug/L	1.0	1		05/31/14 07:22	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/31/14 07:22	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/31/14 07:22	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/31/14 07:22	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		05/31/14 07:22	109-99-9	
Toluene	ND	ug/L	1.0	1		05/31/14 07:22	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/31/14 07:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/31/14 07:22	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/31/14 07:22	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/31/14 07:22	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/31/14 07:22	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/31/14 07:22	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/31/14 07:22	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		05/31/14 07:22	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/31/14 07:22	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		05/31/14 07:22	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		05/31/14 07:22	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		05/31/14 07:22	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**45200**	ug/L	5000	1		06/10/14 15:08		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-SW1 **Lab ID: 92203023015** Collected: 05/29/14 13:45 Received: 05/29/14 17:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**126000**	ug/L	25000	1		06/04/14 17:20		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	ug/L	100	1		06/04/14 13:25	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**2820**	ug/L	2000	1		06/06/14 01:18	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**23700**	ug/L	1000	1		06/11/14 20:56	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	ug/L	5.0	1		06/09/14 12:04	57-12-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-SW2 **Lab ID: 92203023016** Collected: 05/29/14 12:40 Received: 05/29/14 17:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:							
Collected By	**JJQ**			1		06/10/14 11:12		
Collected Date	**05/29/14**			1		06/10/14 11:12		
Collected Time	**12:40**			1		06/10/14 11:12		
Field pH	**6.8**	Std. Units	0.10	1		06/10/14 11:12		
Field Temperature	**19.7**	deg C	0.50	1		06/10/14 11:12		
Field Specific Conductance	**183**	umhos/cm	1.0	1		06/10/14 11:12		
Oxygen, Dissolved	**7.3**	mg/L		1		06/10/14 11:12	7782-44-7	
REDOX	**252**	mV		1		06/10/14 11:12		
Turbidity	**23**	NTU	1.0	1		06/10/14 11:12		
Odor	**NONE**			1		06/10/14 11:12		
Appearance	**MURKY**			1		06/10/14 11:12		
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:22	7440-36-0	
Arsenic	ND	ug/L	10.0	1	06/04/14 16:50	06/06/14 01:22	7440-38-2	
Barium	**59.7**	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:22	7440-39-3	
Beryllium	ND	ug/L	1.0	1	06/04/14 16:50	06/06/14 01:22	7440-41-7	
Cadmium	ND	ug/L	1.0	1	06/04/14 16:50	06/06/14 01:22	7440-43-9	
Chromium	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:22	7440-47-3	
Cobalt	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:22	7440-48-4	
Copper	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:22	7440-50-8	
Iron	**2130**	ug/L	50.0	1	06/04/14 16:50	06/06/14 01:22	7439-89-6	
Lead	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:22	7439-92-1	
Manganese	**219**	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:22	7439-96-5	
Nickel	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:22	7440-02-0	
Selenium	ND	ug/L	10.0	1	06/04/14 16:50	06/06/14 01:22	7782-49-2	
Silver	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:22	7440-22-4	
Sodium	**9840**	ug/L	5000	1	06/04/14 16:50	06/06/14 01:22	7440-23-5	
Thallium	ND	ug/L	5.4	1	06/04/14 16:50	06/06/14 01:22	7440-28-0	
Tin	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:22	7440-31-5	
Vanadium	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:22	7440-62-2	
Zinc	ND	ug/L	10.0	1	06/04/14 16:50	06/06/14 01:22	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	06/02/14 19:45	06/03/14 19:18	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		05/31/14 07:38	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		05/31/14 07:38	107-13-1	
Benzene	ND	ug/L	1.0	1		05/31/14 07:38	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		05/31/14 07:38	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/31/14 07:38	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/31/14 07:38	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/31/14 07:38	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/31/14 07:38	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		05/31/14 07:38	75-15-0	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-SW2 **Lab ID: 92203023016** Collected: 05/29/14 12:40 Received: 05/29/14 17:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Carbon tetrachloride	ND	ug/L	1.0	1		05/31/14 07:38	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/31/14 07:38	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/31/14 07:38	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/31/14 07:38	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/31/14 07:38	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/31/14 07:38	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/31/14 07:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/31/14 07:38	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/31/14 07:38	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/31/14 07:38	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/31/14 07:38	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		05/31/14 07:38	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/31/14 07:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/31/14 07:38	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/31/14 07:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/31/14 07:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/31/14 07:38	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/31/14 07:38	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/31/14 07:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/31/14 07:38	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/31/14 07:38	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		05/31/14 07:38	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/31/14 07:38	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		05/31/14 07:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/31/14 07:38	108-10-1	
Styrene	ND	ug/L	1.0	1		05/31/14 07:38	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/31/14 07:38	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/31/14 07:38	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/31/14 07:38	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		05/31/14 07:38	109-99-9	
Toluene	ND	ug/L	1.0	1		05/31/14 07:38	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/31/14 07:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/31/14 07:38	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/31/14 07:38	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/31/14 07:38	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/31/14 07:38	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/31/14 07:38	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/31/14 07:38	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		05/31/14 07:38	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/31/14 07:38	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		05/31/14 07:38	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		05/31/14 07:38	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		05/31/14 07:38	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**41300**	ug/L	5000	1		06/10/14 15:19		

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-SW2 **Lab ID: 92203023016** Collected: 05/29/14 12:40 Received: 05/29/14 17:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**120000**	ug/L	25000	1		06/04/14 17:21		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	ug/L	100	1		06/04/14 13:25	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**12700**	ug/L	2000	1		06/06/14 01:32	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**10700**	ug/L	1000	1		06/11/14 20:57	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	ug/L	5.0	1		06/09/14 12:04	57-12-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-SW3 **Lab ID: 92203023017** Collected: 05/29/14 12:00 Received: 05/29/14 17:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:							
Collected By	**JJQ**			1		06/10/14 11:13		
Collected Date	**05/29/14**			1		06/10/14 11:13		
Collected Time	**12:00**			1		06/10/14 11:13		
Field pH	**6.5**	Std. Units	0.10	1		06/10/14 11:13		
Field Temperature	**18.9**	deg C	0.50	1		06/10/14 11:13		
Field Specific Conductance	**649**	umhos/cm	1.0	1		06/10/14 11:13		
Oxygen, Dissolved	**2.9**	mg/L		1		06/10/14 11:13	7782-44-7	
REDOX	**127**	mV		1		06/10/14 11:13		
Turbidity	**14**	NTU	1.0	1		06/10/14 11:13		
Odor	**SULFUROUS**			1		06/10/14 11:13		
Appearance	**CLEAR**			1		06/10/14 11:13		
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:25	7440-36-0	
Arsenic	ND	ug/L	10.0	1	06/04/14 16:50	06/06/14 01:25	7440-38-2	
Barium	**181**	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:25	7440-39-3	
Beryllium	ND	ug/L	1.0	1	06/04/14 16:50	06/06/14 01:25	7440-41-7	
Cadmium	ND	ug/L	1.0	1	06/04/14 16:50	06/06/14 01:25	7440-43-9	
Chromium	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:25	7440-47-3	
Cobalt	**14.8**	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:25	7440-48-4	
Copper	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:25	7440-50-8	
Iron	**8890**	ug/L	50.0	1	06/04/14 16:50	06/06/14 01:25	7439-89-6	
Lead	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:25	7439-92-1	
Manganese	**4320**	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:25	7439-96-5	
Nickel	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:25	7440-02-0	
Selenium	ND	ug/L	10.0	1	06/04/14 16:50	06/06/14 01:25	7782-49-2	
Silver	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:25	7440-22-4	
Sodium	**29900**	ug/L	5000	1	06/04/14 16:50	06/06/14 01:25	7440-23-5	
Thallium	ND	ug/L	5.4	1	06/04/14 16:50	06/06/14 01:25	7440-28-0	
Tin	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:25	7440-31-5	
Vanadium	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:25	7440-62-2	
Zinc	ND	ug/L	10.0	1	06/04/14 16:50	06/06/14 01:25	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	06/02/14 19:45	06/03/14 19:21	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		05/31/14 07:54	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		05/31/14 07:54	107-13-1	
Benzene	**0.32J**	ug/L	1.0	1		05/31/14 07:54	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		05/31/14 07:54	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/31/14 07:54	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/31/14 07:54	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/31/14 07:54	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/31/14 07:54	78-93-3	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-SW3 **Lab ID: 92203023017** Collected: 05/29/14 12:00 Received: 05/29/14 17:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Carbon disulfide	ND	ug/L	2.0	1		05/31/14 07:54	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/31/14 07:54	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/31/14 07:54	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/31/14 07:54	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/31/14 07:54	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/31/14 07:54	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/31/14 07:54	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/31/14 07:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/31/14 07:54	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/31/14 07:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/31/14 07:54	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/31/14 07:54	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		05/31/14 07:54	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/31/14 07:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/31/14 07:54	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/31/14 07:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/31/14 07:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/31/14 07:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/31/14 07:54	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/31/14 07:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/31/14 07:54	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/31/14 07:54	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		05/31/14 07:54	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/31/14 07:54	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		05/31/14 07:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/31/14 07:54	108-10-1	
Styrene	ND	ug/L	1.0	1		05/31/14 07:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/31/14 07:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/31/14 07:54	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/31/14 07:54	127-18-4	
Tetrahydrofuran	**9.7J**	ug/L	10.0	1		05/31/14 07:54	109-99-9	
Toluene	ND	ug/L	1.0	1		05/31/14 07:54	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/31/14 07:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/31/14 07:54	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/31/14 07:54	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/31/14 07:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/31/14 07:54	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/31/14 07:54	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/31/14 07:54	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		05/31/14 07:54	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/31/14 07:54	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		05/31/14 07:54	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		05/31/14 07:54	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		05/31/14 07:54	2037-26-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-SW3 **Lab ID: 92203023017** Collected: 05/29/14 12:00 Received: 05/29/14 17:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**259000**	ug/L	5000	1		06/10/14 15:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**319000**	ug/L	25000	1		06/05/14 05:35		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	ug/L	100	1		06/04/14 13:25	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**26300**	ug/L	2000	1		06/09/14 16:13	14808-79-8	M1
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**16900**	ug/L	1000	1		06/11/14 20:58	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	ug/L	5.0	1		06/09/14 12:07	57-12-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-SW4 **Lab ID: 92203023018** Collected: 05/29/14 13:05 Received: 05/29/14 17:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:							
Collected By	**JJQ**			1		06/10/14 11:13		
Collected Date	**05/29/14**			1		06/10/14 11:13		
Collected Time	**13:05**			1		06/10/14 11:13		
Field pH	**6.8**	Std. Units	0.10	1		06/10/14 11:13		
Field Temperature	**19.3**	deg C	0.50	1		06/10/14 11:13		
Field Specific Conductance	**478**	umhos/cm	1.0	1		06/10/14 11:13		
Oxygen, Dissolved	**7.0**	mg/L		1		06/10/14 11:13	7782-44-7	
REDOX	**262**	mV		1		06/10/14 11:13		
Turbidity	**33**	NTU	1.0	1		06/10/14 11:13		
Odor	**NONE**			1		06/10/14 11:13		
Appearance	**MURKY**			1		06/10/14 11:13		
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:30	7440-36-0	
Arsenic	ND	ug/L	10.0	1	06/04/14 16:50	06/06/14 01:30	7440-38-2	
Barium	**126**	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:30	7440-39-3	
Beryllium	ND	ug/L	1.0	1	06/04/14 16:50	06/06/14 01:30	7440-41-7	
Cadmium	ND	ug/L	1.0	1	06/04/14 16:50	06/06/14 01:30	7440-43-9	
Chromium	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:30	7440-47-3	
Cobalt	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:30	7440-48-4	
Copper	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:30	7440-50-8	
Iron	**2520**	ug/L	50.0	1	06/04/14 16:50	06/06/14 01:30	7439-89-6	
Lead	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:30	7439-92-1	
Manganese	**2250**	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:30	7439-96-5	
Nickel	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:30	7440-02-0	
Selenium	ND	ug/L	10.0	1	06/04/14 16:50	06/06/14 01:30	7782-49-2	
Silver	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:30	7440-22-4	
Sodium	**24400**	ug/L	5000	1	06/04/14 16:50	06/06/14 01:30	7440-23-5	
Thallium	ND	ug/L	5.4	1	06/04/14 16:50	06/06/14 01:30	7440-28-0	
Tin	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:30	7440-31-5	
Vanadium	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:30	7440-62-2	
Zinc	ND	ug/L	10.0	1	06/04/14 16:50	06/06/14 01:30	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	06/02/14 19:45	06/03/14 19:29	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		05/31/14 08:09	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		05/31/14 08:09	107-13-1	
Benzene	ND	ug/L	1.0	1		05/31/14 08:09	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		05/31/14 08:09	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/31/14 08:09	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/31/14 08:09	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/31/14 08:09	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/31/14 08:09	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		05/31/14 08:09	75-15-0	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-SW4 **Lab ID: 92203023018** Collected: 05/29/14 13:05 Received: 05/29/14 17:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Carbon tetrachloride	ND	ug/L	1.0	1		05/31/14 08:09	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/31/14 08:09	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/31/14 08:09	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/31/14 08:09	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/31/14 08:09	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/31/14 08:09	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/31/14 08:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/31/14 08:09	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/31/14 08:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/31/14 08:09	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/31/14 08:09	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		05/31/14 08:09	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/31/14 08:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/31/14 08:09	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/31/14 08:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/31/14 08:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/31/14 08:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/31/14 08:09	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/31/14 08:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/31/14 08:09	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/31/14 08:09	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		05/31/14 08:09	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/31/14 08:09	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		05/31/14 08:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/31/14 08:09	108-10-1	
Styrene	ND	ug/L	1.0	1		05/31/14 08:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/31/14 08:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/31/14 08:09	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/31/14 08:09	127-18-4	
Tetrahydrofuran	**4.4J**	ug/L	10.0	1		05/31/14 08:09	109-99-9	
Toluene	ND	ug/L	1.0	1		05/31/14 08:09	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/31/14 08:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/31/14 08:09	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/31/14 08:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/31/14 08:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/31/14 08:09	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/31/14 08:09	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/31/14 08:09	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		05/31/14 08:09	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/31/14 08:09	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		05/31/14 08:09	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		05/31/14 08:09	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		05/31/14 08:09	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**158000**	ug/L	5000	1		06/10/14 16:04		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-SW4 **Lab ID: 92203023018** Collected: 05/29/14 13:05 Received: 05/29/14 17:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**257000**	ug/L	25000	1		06/05/14 05:35		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	ug/L	100	1		06/04/14 13:25	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**23500**	ug/L	2000	1		06/09/14 16:53	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**30800**	ug/L	1000	1		06/11/14 20:58	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	ug/L	5.0	1		06/09/14 12:08	57-12-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-MW1R **Lab ID: 92203023019** Collected: 05/29/14 10:05 Received: 05/29/14 17:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:							
Collected By	**JJQ**			1		06/10/14 10:56		
Collected Date	**05/29/14**			1		06/10/14 10:56		
Collected Time	**10:05**			1		06/10/14 10:56		
Field pH	**5.6**	Std. Units	0.10	1		06/10/14 10:56		
Field Temperature	**18.4**	deg C	0.50	1		06/10/14 10:56		
Static Water Level	**35.42**	feet		1		06/10/14 10:56		
Field Specific Conductance	**137**	umhos/cm	1.0	1		06/10/14 10:56		
Oxygen, Dissolved	**5.3**	mg/L		1		06/10/14 10:56	7782-44-7	
Total Well Depth	**60**	feet		1		06/10/14 10:56		
REDOX	**411**	mV		1		06/10/14 10:56		
Turbidity	**3**	NTU	1.0	1		06/10/14 10:56		
Odor	**NONE**			1		06/10/14 10:56		
Appearance	**CLEAR**			1		06/10/14 10:56		
8081 Organochlorine Pesticides	Analytical Method: EPA 8081	Preparation Method: EPA 3510						
Aldrin	ND	ug/L	0.050	1	06/03/14 17:00	06/05/14 20:52	309-00-2	
alpha-BHC	ND	ug/L	0.050	1	06/03/14 17:00	06/05/14 20:52	319-84-6	
delta-BHC	ND	ug/L	0.050	1	06/03/14 17:00	06/05/14 20:52	319-86-8	
4,4'-DDD	ND	ug/L	0.050	1	06/03/14 17:00	06/05/14 20:52	72-54-8	
4,4'-DDT	ND	ug/L	0.050	1	06/03/14 17:00	06/05/14 20:52	50-29-3	
Endosulfan II	ND	ug/L	0.050	1	06/03/14 17:00	06/05/14 20:52	33213-65-9	
Endrin	ND	ug/L	0.050	1	06/03/14 17:00	06/05/14 20:52	72-20-8	
Endrin aldehyde	ND	ug/L	0.050	1	06/03/14 17:00	06/05/14 20:52	7421-93-4	
Heptachlor	ND	ug/L	0.050	1	06/03/14 17:00	06/05/14 20:52	76-44-8	
Methoxychlor	ND	ug/L	0.15	1	06/03/14 17:00	06/05/14 20:52	72-43-5	
Surrogates								
Tetrachloro-m-xylene (S)	72	%	20-130	1	06/03/14 17:00	06/05/14 20:52	877-09-8	
Decachlorobiphenyl (S)	84	%	20-130	1	06/03/14 17:00	06/05/14 20:52	2051-24-3	
8151 Chlorinated Herbicides	Analytical Method: EPA 8151	Preparation Method: EPA 8151						
2,4-D	ND	ug/L	0.94	1	06/04/14 08:30	06/05/14 09:39	94-75-7	
2,4,5-TP (Silvex)	ND	ug/L	0.19	1	06/04/14 08:30	06/05/14 09:39	93-72-1	
Surrogates								
2,4-DCAA (S)	94	%	65.5-125.7	1	06/04/14 08:30	06/05/14 09:39	19719-28-9	
6010 ICP Groundwater	Analytical Method: EPA 6010	Preparation Method: EPA 3010						
Antimony	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:46	7440-36-0	
Arsenic	ND	ug/L	10.0	1	06/04/14 16:50	06/06/14 01:46	7440-38-2	
Barium	**124**	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:46	7440-39-3	
Beryllium	ND	ug/L	1.0	1	06/04/14 16:50	06/06/14 01:46	7440-41-7	
Cadmium	ND	ug/L	1.0	1	06/04/14 16:50	06/06/14 01:46	7440-43-9	
Chromium	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:46	7440-47-3	
Cobalt	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:46	7440-48-4	
Copper	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:46	7440-50-8	
Iron	**52.9**	ug/L	50.0	1	06/04/14 16:50	06/06/14 01:46	7439-89-6	
Lead	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:46	7439-92-1	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-MW1R **Lab ID: 92203023019** Collected: 05/29/14 10:05 Received: 05/29/14 17:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Manganese	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:46	7439-96-5	
Nickel	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:46	7440-02-0	
Selenium	ND	ug/L	10.0	1	06/04/14 16:50	06/06/14 01:46	7782-49-2	
Silver	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:46	7440-22-4	
Sodium	**10800**	ug/L	5000	1	06/04/14 16:50	06/06/14 01:46	7440-23-5	
Thallium	ND	ug/L	5.4	1	06/04/14 16:50	06/06/14 01:46	7440-28-0	
Tin	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:46	7440-31-5	
Vanadium	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:46	7440-62-2	
Zinc	ND	ug/L	10.0	1	06/04/14 16:50	06/06/14 01:46	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	06/02/14 19:45	06/03/14 19:32	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Benzo(a)anthracene	ND	ug/L	10.0	1	06/03/14 14:00	06/04/14 16:18	56-55-3	
Chrysene	ND	ug/L	10.0	1	06/03/14 14:00	06/04/14 16:18	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	1	06/03/14 14:00	06/04/14 16:18	117-81-7	
Surrogates								
Nitrobenzene-d5 (S)	71	%	21-110	1	06/03/14 14:00	06/04/14 16:18	4165-60-0	
2-Fluorobiphenyl (S)	82	%	27-110	1	06/03/14 14:00	06/04/14 16:18	321-60-8	
Terphenyl-d14 (S)	80	%	31-107	1	06/03/14 14:00	06/04/14 16:18	1718-51-0	
Phenol-d6 (S)	25	%	10-110	1	06/03/14 14:00	06/04/14 16:18	13127-88-3	
2-Fluorophenol (S)	36	%	12-110	1	06/03/14 14:00	06/04/14 16:18	367-12-4	
2,4,6-Tribromophenol (S)	80	%	27-110	1	06/03/14 14:00	06/04/14 16:18	118-79-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		05/31/14 08:25	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		05/31/14 08:25	107-13-1	
Benzene	ND	ug/L	1.0	1		05/31/14 08:25	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		05/31/14 08:25	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/31/14 08:25	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/31/14 08:25	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/31/14 08:25	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/31/14 08:25	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		05/31/14 08:25	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/31/14 08:25	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/31/14 08:25	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/31/14 08:25	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/31/14 08:25	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/31/14 08:25	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/31/14 08:25	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/31/14 08:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/31/14 08:25	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/31/14 08:25	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/31/14 08:25	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/31/14 08:25	106-46-7	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-MW1R **Lab ID: 92203023019** Collected: 05/29/14 10:05 Received: 05/29/14 17:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		05/31/14 08:25	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/31/14 08:25	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/31/14 08:25	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/31/14 08:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/31/14 08:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/31/14 08:25	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/31/14 08:25	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/31/14 08:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/31/14 08:25	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/31/14 08:25	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		05/31/14 08:25	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/31/14 08:25	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		05/31/14 08:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/31/14 08:25	108-10-1	
Styrene	ND	ug/L	1.0	1		05/31/14 08:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/31/14 08:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/31/14 08:25	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/31/14 08:25	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		05/31/14 08:25	109-99-9	
Toluene	ND	ug/L	1.0	1		05/31/14 08:25	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/31/14 08:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/31/14 08:25	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/31/14 08:25	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/31/14 08:25	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/31/14 08:25	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/31/14 08:25	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/31/14 08:25	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		05/31/14 08:25	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/31/14 08:25	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		05/31/14 08:25	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		05/31/14 08:25	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		05/31/14 08:25	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**30000**	ug/L	5000	1		06/10/14 16:42		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**91000**	ug/L	25000	1		06/05/14 05:36		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	ug/L	100	1		06/04/14 13:25	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	ND	ug/L	2000	1		06/09/14 17:07	14808-79-8	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-MW1R **Lab ID: 92203023019** Collected: 05/29/14 10:05 Received: 05/29/14 17:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**5600**	ug/L	1000	1		06/11/14 20:59	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	ug/L	5.0	1		06/09/14 12:09	57-12-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-MW2R **Lab ID: 92203023020** Collected: 05/29/14 14:45 Received: 05/29/14 17:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:							
Collected By	**JJQ**			1		06/10/14 10:58		
Collected Date	**05/29/14**			1		06/10/14 10:58		
Collected Time	**14:45**			1		06/10/14 10:58		
Field pH	**5.8**	Std. Units	0.10	1		06/10/14 10:58		
Field Temperature	**19.6**	deg C	0.50	1		06/10/14 10:58		
Static Water Level	**7.16**	feet		1		06/10/14 10:58		
Field Specific Conductance	**1040**	umhos/cm	1.0	1		06/10/14 10:58		
Oxygen, Dissolved	**4.8**	mg/L		1		06/10/14 10:58	7782-44-7	
Total Well Depth	**21**	feet		1		06/10/14 10:58		
REDOX	**243**	mV		1		06/10/14 10:58		
Turbidity	**11**	NTU	1.0	1		06/10/14 10:58		
Odor	**NONE**			1		06/10/14 10:58		
Appearance	**CLEAR**			1		06/10/14 10:58		
8081 Organochlorine Pesticides	Analytical Method: EPA 8081	Preparation Method: EPA 3510						
Aldrin	ND	ug/L	0.050	1	06/03/14 17:00	06/05/14 21:11	309-00-2	
alpha-BHC	ND	ug/L	0.050	1	06/03/14 17:00	06/05/14 21:11	319-84-6	
delta-BHC	ND	ug/L	0.050	1	06/03/14 17:00	06/05/14 21:11	319-86-8	
4,4'-DDD	ND	ug/L	0.050	1	06/03/14 17:00	06/05/14 21:11	72-54-8	
4,4'-DDT	ND	ug/L	0.050	1	06/03/14 17:00	06/05/14 21:11	50-29-3	
Endosulfan II	ND	ug/L	0.050	1	06/03/14 17:00	06/05/14 21:11	33213-65-9	
Endrin	ND	ug/L	0.050	1	06/03/14 17:00	06/05/14 21:11	72-20-8	
Endrin aldehyde	ND	ug/L	0.050	1	06/03/14 17:00	06/05/14 21:11	7421-93-4	
Heptachlor	ND	ug/L	0.050	1	06/03/14 17:00	06/05/14 21:11	76-44-8	
Methoxychlor	ND	ug/L	0.15	1	06/03/14 17:00	06/05/14 21:11	72-43-5	
Surrogates								
Tetrachloro-m-xylene (S)	40	%	20-130	1	06/03/14 17:00	06/05/14 21:11	877-09-8	
Decachlorobiphenyl (S)	113	%	20-130	1	06/03/14 17:00	06/05/14 21:11	2051-24-3	
8151 Chlorinated Herbicides	Analytical Method: EPA 8151	Preparation Method: EPA 8151						
2,4-D	ND	ug/L	0.94	1	06/04/14 08:30	06/05/14 10:09	94-75-7	
2,4,5-TP (Silvex)	ND	ug/L	0.19	1	06/04/14 08:30	06/05/14 10:09	93-72-1	
Surrogates								
2,4-DCAA (S)	99	%	65.5-125.7	1	06/04/14 08:30	06/05/14 10:09	19719-28-9	
6010 ICP Groundwater	Analytical Method: EPA 6010	Preparation Method: EPA 3010						
Antimony	**5.4**	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:50	7440-36-0	
Arsenic	ND	ug/L	10.0	1	06/04/14 16:50	06/06/14 01:50	7440-38-2	
Barium	**324**	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:50	7440-39-3	
Beryllium	ND	ug/L	1.0	1	06/04/14 16:50	06/06/14 01:50	7440-41-7	
Cadmium	ND	ug/L	1.0	1	06/04/14 16:50	06/06/14 01:50	7440-43-9	
Chromium	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:50	7440-47-3	
Cobalt	**22.8**	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:50	7440-48-4	
Copper	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:50	7440-50-8	
Iron	**1650**	ug/L	50.0	1	06/04/14 16:50	06/06/14 01:50	7439-89-6	
Lead	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:50	7439-92-1	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-MW2R **Lab ID: 92203023020** Collected: 05/29/14 14:45 Received: 05/29/14 17:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Manganese	**7950**	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:50	7439-96-5	
Nickel	**20.6**	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:50	7440-02-0	
Selenium	**16.5**	ug/L	10.0	1	06/04/14 16:50	06/06/14 01:50	7782-49-2	
Silver	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:50	7440-22-4	
Sodium	**59700**	ug/L	5000	1	06/04/14 16:50	06/06/14 01:50	7440-23-5	
Thallium	ND	ug/L	5.4	1	06/04/14 16:50	06/06/14 01:50	7440-28-0	
Tin	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:50	7440-31-5	
Vanadium	ND	ug/L	5.0	1	06/04/14 16:50	06/06/14 01:50	7440-62-2	
Zinc	ND	ug/L	10.0	1	06/04/14 16:50	06/06/14 01:50	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	06/02/14 19:45	06/03/14 19:34	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Benzo(a)anthracene	ND	ug/L	10.0	1	06/05/14 17:20	06/06/14 18:55	56-55-3	
Chrysene	ND	ug/L	10.0	1	06/05/14 17:20	06/06/14 18:55	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	1	06/05/14 17:20	06/06/14 18:55	117-81-7	
Surrogates								
Nitrobenzene-d5 (S)	32	%	21-110	1	06/05/14 17:20	06/06/14 18:55	4165-60-0	
2-Fluorobiphenyl (S)	34	%	27-110	1	06/05/14 17:20	06/06/14 18:55	321-60-8	
Terphenyl-d14 (S)	40	%	31-107	1	06/05/14 17:20	06/06/14 18:55	1718-51-0	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		05/31/14 08:41	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		05/31/14 08:41	107-13-1	
Benzene	**1.8**	ug/L	1.0	1		05/31/14 08:41	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		05/31/14 08:41	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/31/14 08:41	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/31/14 08:41	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/31/14 08:41	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/31/14 08:41	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		05/31/14 08:41	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/31/14 08:41	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/31/14 08:41	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/31/14 08:41	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/31/14 08:41	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/31/14 08:41	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/31/14 08:41	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/31/14 08:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/31/14 08:41	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/31/14 08:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/31/14 08:41	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/31/14 08:41	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		05/31/14 08:41	110-57-6	
1,1-Dichloroethane	**0.83J**	ug/L	1.0	1		05/31/14 08:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/31/14 08:41	107-06-2	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-MW2R **Lab ID: 92203023020** Collected: 05/29/14 14:45 Received: 05/29/14 17:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
1,1-Dichloroethene	ND	ug/L	1.0	1		05/31/14 08:41	75-35-4	
cis-1,2-Dichloroethene	**0.38J**	ug/L	1.0	1		05/31/14 08:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/31/14 08:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/31/14 08:41	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/31/14 08:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/31/14 08:41	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/31/14 08:41	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		05/31/14 08:41	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/31/14 08:41	74-88-4	
Methylene Chloride	**3.7**	ug/L	1.0	1		05/31/14 08:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/31/14 08:41	108-10-1	
Styrene	ND	ug/L	1.0	1		05/31/14 08:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/31/14 08:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/31/14 08:41	79-34-5	
Tetrachloroethene	**1.8**	ug/L	1.0	1		05/31/14 08:41	127-18-4	
Tetrahydrofuran	**72.6**	ug/L	10.0	1		05/31/14 08:41	109-99-9	
Toluene	ND	ug/L	1.0	1		05/31/14 08:41	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/31/14 08:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/31/14 08:41	79-00-5	
Trichloroethene	**0.71J**	ug/L	1.0	1		05/31/14 08:41	79-01-6	
Trichlorofluoromethane	**3.7**	ug/L	1.0	1		05/31/14 08:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/31/14 08:41	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/31/14 08:41	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/31/14 08:41	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		05/31/14 08:41	179601-23-1	
o-Xylene	**0.31J**	ug/L	1.0	1		05/31/14 08:41	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		05/31/14 08:41	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		05/31/14 08:41	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		05/31/14 08:41	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**344000**	ug/L	5000	1		06/10/14 16:52		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**549000**	ug/L	25000	1		06/05/14 05:36		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	ug/L	100	1		06/04/14 13:25	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**136000**	ug/L	10000	5		06/10/14 11:18	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**50500**	ug/L	3000	3		06/11/14 21:00	16887-00-6	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92203023

Sample: 3412-MW2R **Lab ID: 92203023020** Collected: 05/29/14 14:45 Received: 05/29/14 17:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	ug/L	5.0	1		06/09/14 12:12	57-12-5	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92203023

QC Batch: MERP/6686 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 92203023002, 92203023003, 92203023004, 92203023005, 92203023006, 92203023007, 92203023008

METHOD BLANK: 1211114 Matrix: Water
Associated Lab Samples: 92203023002, 92203023003, 92203023004, 92203023005, 92203023006, 92203023007, 92203023008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	06/02/14 17:56	

LABORATORY CONTROL SAMPLE: 1211115

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.7	110	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1211116 1211117

Parameter	Units	92203488001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Mercury	ug/L	ND	2.5	2.5	1.8	1.5	69	59	75-125	14	M1

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92203023

QC Batch: MERP/6689 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 92203023014, 92203023015, 92203023016, 92203023017, 92203023018, 92203023019, 92203023020

METHOD BLANK: 1212169 Matrix: Water
Associated Lab Samples: 92203023014, 92203023015, 92203023016, 92203023017, 92203023018, 92203023019, 92203023020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	06/03/14 18:36	

LABORATORY CONTROL SAMPLE: 1212170

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.7	109	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1212171 1212172

Parameter	Units	92203121010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Mercury	ug/L	0.14J	2.5	2.5	2.7	2.6	101	100	75-125	0	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92203023

QC Batch: MERP/6698 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 92203023009, 92203023010, 92203023011, 92203023012

METHOD BLANK: 1213200 Matrix: Water
Associated Lab Samples: 92203023009, 92203023010, 92203023011, 92203023012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	06/04/14 10:27	

LABORATORY CONTROL SAMPLE: 1213201

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.5	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1213202 1213203

Parameter	Units	92203265001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Mercury	ug/L				2.5	2.4				1	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92203023

QC Batch: MPRP/16098 | Analysis Method: EPA 6010
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 92203023002, 92203023003, 92203023004, 92203023006, 92203023007, 92203023008, 92203023009, 92203023010, 92203023011, 92203023012

METHOD BLANK: 1212072 | Matrix: Water
Associated Lab Samples: 92203023002, 92203023003, 92203023004, 92203023006, 92203023007, 92203023008, 92203023009, 92203023010, 92203023011, 92203023012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	5.0	06/03/14 19:58	
Arsenic	ug/L	ND	10.0	06/03/14 19:58	
Barium	ug/L	ND	5.0	06/03/14 19:58	
Beryllium	ug/L	ND	1.0	06/03/14 19:58	
Cadmium	ug/L	ND	1.0	06/03/14 19:58	
Chromium	ug/L	ND	5.0	06/04/14 16:06	
Cobalt	ug/L	ND	5.0	06/03/14 19:58	
Copper	ug/L	ND	5.0	06/03/14 19:58	
Iron	ug/L	ND	50.0	06/03/14 19:58	
Lead	ug/L	ND	5.0	06/03/14 19:58	
Manganese	ug/L	ND	5.0	06/03/14 19:58	
Nickel	ug/L	ND	5.0	06/03/14 19:58	
Selenium	ug/L	ND	10.0	06/04/14 16:06	
Silver	ug/L	ND	5.0	06/03/14 19:58	
Sodium	ug/L	ND	5000	06/03/14 19:58	
Thallium	ug/L	ND	5.4	06/03/14 19:58	
Tin	ug/L	ND	5.0	06/03/14 19:58	
Vanadium	ug/L	ND	5.0	06/03/14 19:58	
Zinc	ug/L	ND	10.0	06/03/14 19:58	

LABORATORY CONTROL SAMPLE: 1212073

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	471	94	80-120	
Arsenic	ug/L	500	449	90	80-120	
Barium	ug/L	500	472	94	80-120	
Beryllium	ug/L	500	466	93	80-120	
Cadmium	ug/L	500	453	91	80-120	
Chromium	ug/L	500	465	93	80-120	
Cobalt	ug/L	500	463	93	80-120	
Copper	ug/L	500	475	95	80-120	
Iron	ug/L	5000	4650	93	80-120	
Lead	ug/L	500	461	92	80-120	
Manganese	ug/L	500	464	93	80-120	
Nickel	ug/L	500	460	92	80-120	
Selenium	ug/L	500	469	94	80-120	
Silver	ug/L	250	235	94	80-120	
Sodium	ug/L	5000	ND	89	80-120	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92203023

LABORATORY CONTROL SAMPLE: 1212073

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Thallium	ug/L	500	453	91	80-120	
Tin	ug/L	500	473	95	80-120	
Vanadium	ug/L	500	472	94	80-120	
Zinc	ug/L	500	454	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1212074 1212075

Parameter	Units	92203022003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Antimony	ug/L	ND	500	500	495	481	99	96	75-125	3	
Arsenic	ug/L	ND	500	500	477	464	95	93	75-125	3	
Barium	ug/L	12.2	500	500	495	482	97	94	75-125	3	
Beryllium	ug/L	ND	500	500	473	460	95	92	75-125	3	
Cadmium	ug/L	1.6	500	500	458	448	91	89	75-125	2	
Chromium	ug/L	ND	500	500	463	453	93	91	75-125	2	
Cobalt	ug/L	ND	500	500	467	455	93	91	75-125	3	
Copper	ug/L	ND	500	500	500	486	100	97	75-125	3	
Iron	ug/L	ND	5000	5000	4670	4560	93	91	75-125	2	
Lead	ug/L	ND	500	500	472	459	94	92	75-125	3	
Manganese	ug/L	ND	500	500	466	455	93	91	75-125	2	
Nickel	ug/L	ND	500	500	462	452	92	90	75-125	2	
Selenium	ug/L	ND	500	500	483	477	95	93	75-125	1	
Silver	ug/L	ND	250	250	243	237	97	95	75-125	2	
Sodium	ug/L	ND	5000	5000	9590	9300	112	106	75-125	3	
Thallium	ug/L	ND	500	500	462	450	92	90	75-125	3	
Tin	ug/L	ND	500	500	491	481	98	96	75-125	2	
Vanadium	ug/L	ND	500	500	488	475	98	95	75-125	3	
Zinc	ug/L	96.6	500	500	559	547	92	90	75-125	2	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92203023

QC Batch: MPRP/16105
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 92203023005

METHOD BLANK: 1212488
Matrix: Water
Associated Lab Samples: 92203023005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	5.0	06/05/14 00:02	
Arsenic	ug/L	ND	10.0	06/05/14 00:02	
Barium	ug/L	ND	5.0	06/05/14 00:02	
Beryllium	ug/L	ND	1.0	06/05/14 00:02	
Cadmium	ug/L	ND	1.0	06/05/14 00:02	
Chromium	ug/L	ND	5.0	06/05/14 00:02	
Cobalt	ug/L	ND	5.0	06/05/14 00:02	
Copper	ug/L	ND	5.0	06/05/14 00:02	
Iron	ug/L	ND	50.0	06/05/14 00:02	
Lead	ug/L	ND	5.0	06/05/14 00:02	
Manganese	ug/L	ND	5.0	06/05/14 00:02	
Nickel	ug/L	ND	5.0	06/05/14 00:02	
Selenium	ug/L	ND	10.0	06/05/14 00:02	
Silver	ug/L	ND	5.0	06/05/14 00:02	
Sodium	ug/L	ND	5000	06/05/14 00:02	
Thallium	ug/L	ND	5.4	06/05/14 00:02	
Tin	ug/L	ND	5.0	06/05/14 00:02	
Vanadium	ug/L	ND	5.0	06/05/14 00:02	
Zinc	ug/L	ND	10.0	06/05/14 00:02	

LABORATORY CONTROL SAMPLE: 1212489

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	472	94	80-120	
Arsenic	ug/L	500	457	91	80-120	
Barium	ug/L	500	473	95	80-120	
Beryllium	ug/L	500	473	95	80-120	
Cadmium	ug/L	500	470	94	80-120	
Chromium	ug/L	500	470	94	80-120	
Cobalt	ug/L	500	471	94	80-120	
Copper	ug/L	500	472	94	80-120	
Iron	ug/L	5000	4750	95	80-120	
Lead	ug/L	500	468	94	80-120	
Manganese	ug/L	500	473	95	80-120	
Nickel	ug/L	500	470	94	80-120	
Selenium	ug/L	500	470	94	80-120	
Silver	ug/L	250	238	95	80-120	
Sodium	ug/L	5000	5160	103	80-120	
Thallium	ug/L	500	455	91	80-120	
Tin	ug/L	500	477	95	80-120	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92203023

LABORATORY CONTROL SAMPLE: 1212489

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vanadium	ug/L	500	480	96	80-120	
Zinc	ug/L	500	462	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1212490 1212491

Parameter	Units	92203313004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Antimony	ug/L	ND	500	500	478	450	96	90	75-125	6	
Arsenic	ug/L	ND	500	500	460	442	92	88	75-125	4	
Barium	ug/L	70.8	500	500	528	504	91	87	75-125	5	
Beryllium	ug/L	ND	500	500	467	439	93	88	75-125	6	
Cadmium	ug/L	ND	500	500	455	427	91	85	75-125	6	
Chromium	ug/L	ND	500	500	464	438	92	87	75-125	6	
Cobalt	ug/L	103	500	500	553	528	90	85	75-125	5	
Copper	ug/L	ND	500	500	481	456	95	90	75-125	5	
Iron	ug/L	9330	5000	5000	13200	13000	77	73	75-125	2	M1
Lead	ug/L	ND	500	500	450	424	90	85	75-125	6	
Manganese	ug/L	8820	500	500	8780	8860	-9	8	75-125	1	M1
Nickel	ug/L	45.1	500	500	493	469	90	85	75-125	5	
Selenium	ug/L	ND	500	500	470	446	93	88	75-125	5	
Silver	ug/L	ND	250	250	240	226	96	90	75-125	6	
Sodium	ug/L	16300	5000	5000	22500	22300	125	120	75-125	1	
Thallium	ug/L	ND	500	500	436	410	87	82	75-125	6	
Tin	ug/L	ND	500	500	478	449	95	89	75-125	6	
Vanadium	ug/L	10.4	500	500	488	460	96	90	75-125	6	
Zinc	ug/L	27.4	500	500	483	456	91	86	75-125	6	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92203023

QC Batch: MPRP/16119 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 92203023014, 92203023015, 92203023016, 92203023017, 92203023018, 92203023019, 92203023020

METHOD BLANK: 1213730 Matrix: Water
Associated Lab Samples: 92203023014, 92203023015, 92203023016, 92203023017, 92203023018, 92203023019, 92203023020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	5.0	06/06/14 00:00	
Arsenic	ug/L	ND	10.0	06/06/14 00:00	
Barium	ug/L	ND	5.0	06/06/14 00:00	
Beryllium	ug/L	ND	1.0	06/06/14 00:00	
Cadmium	ug/L	ND	1.0	06/06/14 00:00	
Chromium	ug/L	ND	5.0	06/06/14 00:00	
Cobalt	ug/L	ND	5.0	06/06/14 00:00	
Copper	ug/L	ND	5.0	06/06/14 00:00	
Iron	ug/L	ND	50.0	06/06/14 00:00	
Lead	ug/L	ND	5.0	06/06/14 00:00	
Manganese	ug/L	ND	5.0	06/06/14 00:00	
Nickel	ug/L	ND	5.0	06/06/14 00:00	
Selenium	ug/L	ND	10.0	06/06/14 00:00	
Silver	ug/L	ND	5.0	06/06/14 00:00	
Sodium	ug/L	ND	5000	06/06/14 00:00	
Thallium	ug/L	ND	5.4	06/06/14 00:00	
Tin	ug/L	ND	5.0	06/06/14 00:00	
Vanadium	ug/L	ND	5.0	06/06/14 00:00	
Zinc	ug/L	ND	10.0	06/06/14 00:00	

LABORATORY CONTROL SAMPLE: 1213731

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	472	94	80-120	
Arsenic	ug/L	500	458	92	80-120	
Barium	ug/L	500	473	95	80-120	
Beryllium	ug/L	500	466	93	80-120	
Cadmium	ug/L	500	456	91	80-120	
Chromium	ug/L	500	462	92	80-120	
Cobalt	ug/L	500	466	93	80-120	
Copper	ug/L	500	476	95	80-120	
Iron	ug/L	5000	4710	94	80-120	
Lead	ug/L	500	467	93	80-120	
Manganese	ug/L	500	461	92	80-120	
Nickel	ug/L	500	463	93	80-120	
Selenium	ug/L	500	465	93	80-120	
Silver	ug/L	250	237	95	80-120	
Sodium	ug/L	5000	5140	103	80-120	
Thallium	ug/L	500	457	91	80-120	
Tin	ug/L	500	465	93	80-120	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92203023

LABORATORY CONTROL SAMPLE: 1213731

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vanadium	ug/L	500	475	95	80-120	
Zinc	ug/L	500	456	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1213732 1213733

Parameter	Units	92203468001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Antimony	ug/L	ND	500	500	476	471	95	94	75-125	1	
Arsenic	ug/L	ND	500	500	458	458	92	92	75-125	0	
Barium	ug/L	35.0J	500	500	510	504	95	94	75-125	1	
Beryllium	ug/L	ND	500	500	472	470	94	94	75-125	0	
Cadmium	ug/L	ND	500	500	458	454	92	91	75-125	1	
Chromium	ug/L	ND	500	500	467	462	93	92	75-125	1	
Cobalt	ug/L	6.2J	500	500	475	470	94	93	75-125	1	
Copper	ug/L	ND	500	500	485	480	97	96	75-125	1	
Iron	ug/L	117J	5000	5000	4870	4820	95	94	75-125	1	
Lead	ug/L	ND	500	500	466	459	93	91	75-125	2	
Manganese	ug/L	470	500	500	939	919	94	90	75-125	2	
Nickel	ug/L	ND	500	500	466	462	93	92	75-125	1	
Selenium	ug/L	ND	500	500	477	469	95	94	75-125	2	
Silver	ug/L	ND	250	250	240	237	96	95	75-125	1	
Sodium	ug/L	ND	5000	5000	9190	9000	115	111	75-125	2	
Thallium	ug/L	ND	500	500	461	455	92	91	75-125	1	
Tin	ug/L	ND	500	500	474	466	94	93	75-125	2	
Vanadium	ug/L	ND	500	500	482	477	96	95	75-125	1	
Zinc	ug/L	ND	500	500	469	465	92	91	75-125	1	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92203023

QC Batch: MSV/26995 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 92203023001, 92203023002, 92203023003, 92203023004, 92203023005, 92203023006, 92203023007, 92203023008, 92203023009, 92203023010, 92203023011, 92203023012

METHOD BLANK: 1209031 | Matrix: Water
Associated Lab Samples: 92203023001, 92203023002, 92203023003, 92203023004, 92203023005, 92203023006, 92203023007, 92203023008, 92203023009, 92203023010, 92203023011, 92203023012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/29/14 15:03	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/29/14 15:03	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/29/14 15:03	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/29/14 15:03	
1,1-Dichloroethane	ug/L	ND	1.0	05/29/14 15:03	
1,1-Dichloroethene	ug/L	ND	1.0	05/29/14 15:03	
1,2,3-Trichloropropane	ug/L	ND	1.0	05/29/14 15:03	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	05/29/14 15:03	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/29/14 15:03	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/29/14 15:03	
1,2-Dichloroethane	ug/L	ND	1.0	05/29/14 15:03	
1,2-Dichloropropane	ug/L	ND	1.0	05/29/14 15:03	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/29/14 15:03	
2-Butanone (MEK)	ug/L	ND	5.0	05/29/14 15:03	
2-Hexanone	ug/L	ND	5.0	05/29/14 15:03	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	05/29/14 15:03	
Acetone	ug/L	ND	25.0	05/29/14 15:03	
Acrylonitrile	ug/L	ND	10.0	05/29/14 15:03	
Benzene	ug/L	ND	1.0	05/29/14 15:03	
Bromochloromethane	ug/L	ND	1.0	05/29/14 15:03	
Bromodichloromethane	ug/L	ND	1.0	05/29/14 15:03	
Bromoform	ug/L	ND	1.0	05/29/14 15:03	
Bromomethane	ug/L	ND	2.0	05/29/14 15:03	
Carbon disulfide	ug/L	ND	2.0	05/29/14 15:03	
Carbon tetrachloride	ug/L	ND	1.0	05/29/14 15:03	
Chlorobenzene	ug/L	ND	1.0	05/29/14 15:03	
Chloroethane	ug/L	ND	1.0	05/29/14 15:03	
Chloroform	ug/L	ND	1.0	05/29/14 15:03	
Chloromethane	ug/L	ND	1.0	05/29/14 15:03	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/29/14 15:03	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/29/14 15:03	
Dibromochloromethane	ug/L	ND	1.0	05/29/14 15:03	
Dibromomethane	ug/L	ND	1.0	05/29/14 15:03	
Ethylbenzene	ug/L	ND	1.0	05/29/14 15:03	
Iodomethane	ug/L	ND	5.0	05/29/14 15:03	
m&p-Xylene	ug/L	ND	2.0	05/29/14 15:03	
Methylene Chloride	ug/L	ND	1.0	05/29/14 15:03	
o-Xylene	ug/L	ND	1.0	05/29/14 15:03	
Styrene	ug/L	ND	1.0	05/29/14 15:03	
Tetrachloroethene	ug/L	ND	1.0	05/29/14 15:03	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92203023

METHOD BLANK: 1209031 Matrix: Water

Associated Lab Samples: 92203023001, 92203023002, 92203023003, 92203023004, 92203023005, 92203023006, 92203023007, 92203023008, 92203023009, 92203023010, 92203023011, 92203023012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Tetrahydrofuran	ug/L	ND	10.0	05/29/14 15:03	
Toluene	ug/L	ND	1.0	05/29/14 15:03	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/29/14 15:03	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/29/14 15:03	
trans-1,4-Dichloro-2-butene	ug/L	ND	1.0	05/29/14 15:03	
Trichloroethene	ug/L	ND	1.0	05/29/14 15:03	
Trichlorofluoromethane	ug/L	ND	1.0	05/29/14 15:03	
Vinyl acetate	ug/L	ND	2.0	05/29/14 15:03	
Vinyl chloride	ug/L	ND	1.0	05/29/14 15:03	
1,2-Dichloroethane-d4 (S)	%	92	70-130	05/29/14 15:03	
4-Bromofluorobenzene (S)	%	95	70-130	05/29/14 15:03	
Toluene-d8 (S)	%	97	70-130	05/29/14 15:03	

LABORATORY CONTROL SAMPLE: 1209032

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.6	101	70-130	
1,1,1-Trichloroethane	ug/L	50	48.1	96	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	51.3	103	70-130	
1,1,2-Trichloroethane	ug/L	50	50.6	101	70-130	
1,1-Dichloroethane	ug/L	50	47.0	94	70-130	
1,1-Dichloroethene	ug/L	50	47.0	94	70-132	
1,2,3-Trichloropropane	ug/L	50	48.1	96	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	48.2	96	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	49.1	98	70-130	
1,2-Dichlorobenzene	ug/L	50	50.0	100	70-130	
1,2-Dichloroethane	ug/L	50	48.8	98	70-130	
1,2-Dichloropropane	ug/L	50	49.6	99	70-130	
1,4-Dichlorobenzene	ug/L	50	49.1	98	70-130	
2-Butanone (MEK)	ug/L	100	87.7	88	70-145	
2-Hexanone	ug/L	100	97.1	97	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	100	91.7	92	70-140	
Acetone	ug/L	100	94.0	94	50-175	
Acrylonitrile	ug/L	250	237	95	70-143	
Benzene	ug/L	50	54.1	108	70-130	
Bromochloromethane	ug/L	50	49.0	98	70-130	
Bromodichloromethane	ug/L	50	48.6	97	70-130	
Bromoform	ug/L	50	49.2	98	70-130	
Bromomethane	ug/L	50	32.2	64	54-130	
Carbon disulfide	ug/L	50	49.9	100	70-131	
Carbon tetrachloride	ug/L	50	46.0	92	70-132	
Chlorobenzene	ug/L	50	47.4	95	70-130	
Chloroethane	ug/L	50	42.4	85	64-134	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92203023

LABORATORY CONTROL SAMPLE: 1209032

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloroform	ug/L	50	48.7	97	70-130	
Chloromethane	ug/L	50	34.3	69	64-130	
cis-1,2-Dichloroethene	ug/L	50	48.0	96	70-131	
cis-1,3-Dichloropropene	ug/L	50	51.2	102	70-130	
Dibromochloromethane	ug/L	50	47.8	96	70-130	
Dibromomethane	ug/L	50	47.1	94	70-131	
Ethylbenzene	ug/L	50	48.1	96	70-130	
Iodomethane	ug/L	100	27.5	27	49-180	L0
m&p-Xylene	ug/L	100	97.6	98	70-130	
Methylene Chloride	ug/L	50	48.1	96	63-130	
o-Xylene	ug/L	50	49.4	99	70-130	
Styrene	ug/L	50	52.2	104	70-130	
Tetrachloroethene	ug/L	50	48.7	97	70-130	
Tetrahydrofuran	ug/L	500	478	96	70-130	
Toluene	ug/L	50	49.7	99	70-130	
trans-1,2-Dichloroethene	ug/L	50	47.4	95	70-130	
trans-1,3-Dichloropropene	ug/L	50	49.0	98	70-132	
trans-1,4-Dichloro-2-butene	ug/L	50	46.6	93	70-141	
Trichloroethene	ug/L	50	52.2	104	70-130	
Trichlorofluoromethane	ug/L	50	40.2	80	62-133	
Vinyl acetate	ug/L	100	100	100	66-157	
Vinyl chloride	ug/L	50	54.9	110	69-130	
1,2-Dichloroethane-d4 (S)	%			91	70-130	
4-Bromofluorobenzene (S)	%			97	70-130	
Toluene-d8 (S)	%			100	70-130	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92203023

QC Batch: MSV/27034
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 92203023013

METHOD BLANK: 1210761
Matrix: Water
Associated Lab Samples: 92203023013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/31/14 01:23	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/31/14 01:23	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/31/14 01:23	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/31/14 01:23	
1,1-Dichloroethane	ug/L	ND	1.0	05/31/14 01:23	
1,1-Dichloroethene	ug/L	ND	1.0	05/31/14 01:23	
1,2,3-Trichloropropane	ug/L	ND	1.0	05/31/14 01:23	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	05/31/14 01:23	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/31/14 01:23	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/31/14 01:23	
1,2-Dichloroethane	ug/L	ND	1.0	05/31/14 01:23	
1,2-Dichloropropane	ug/L	ND	1.0	05/31/14 01:23	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/31/14 01:23	
2-Butanone (MEK)	ug/L	ND	5.0	05/31/14 01:23	
2-Hexanone	ug/L	ND	5.0	05/31/14 01:23	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	05/31/14 01:23	
Acetone	ug/L	ND	25.0	05/31/14 01:23	
Acrylonitrile	ug/L	ND	10.0	05/31/14 01:23	
Benzene	ug/L	ND	1.0	05/31/14 01:23	
Bromochloromethane	ug/L	ND	1.0	05/31/14 01:23	
Bromodichloromethane	ug/L	ND	1.0	05/31/14 01:23	
Bromoform	ug/L	ND	1.0	05/31/14 01:23	
Bromomethane	ug/L	ND	2.0	05/31/14 01:23	
Carbon disulfide	ug/L	ND	2.0	05/31/14 01:23	
Carbon tetrachloride	ug/L	ND	1.0	05/31/14 01:23	
Chlorobenzene	ug/L	ND	1.0	05/31/14 01:23	
Chloroethane	ug/L	ND	1.0	05/31/14 01:23	
Chloroform	ug/L	ND	1.0	05/31/14 01:23	
Chloromethane	ug/L	ND	1.0	05/31/14 01:23	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/31/14 01:23	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/31/14 01:23	
Dibromochloromethane	ug/L	ND	1.0	05/31/14 01:23	
Dibromomethane	ug/L	ND	1.0	05/31/14 01:23	
Ethylbenzene	ug/L	ND	1.0	05/31/14 01:23	
Iodomethane	ug/L	ND	5.0	05/31/14 01:23	
m&p-Xylene	ug/L	ND	2.0	05/31/14 01:23	
Methylene Chloride	ug/L	ND	1.0	05/31/14 01:23	
o-Xylene	ug/L	ND	1.0	05/31/14 01:23	
Styrene	ug/L	ND	1.0	05/31/14 01:23	
Tetrachloroethene	ug/L	ND	1.0	05/31/14 01:23	
Tetrahydrofuran	ug/L	ND	10.0	05/31/14 01:23	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92203023

METHOD BLANK: 1210761 Matrix: Water
Associated Lab Samples: 92203023013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Toluene	ug/L	ND	1.0	05/31/14 01:23	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/31/14 01:23	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/31/14 01:23	
trans-1,4-Dichloro-2-butene	ug/L	ND	1.0	05/31/14 01:23	
Trichloroethene	ug/L	ND	1.0	05/31/14 01:23	
Trichlorofluoromethane	ug/L	ND	1.0	05/31/14 01:23	
Vinyl acetate	ug/L	ND	2.0	05/31/14 01:23	
Vinyl chloride	ug/L	ND	1.0	05/31/14 01:23	
1,2-Dichloroethane-d4 (S)	%	97	70-130	05/31/14 01:23	
4-Bromofluorobenzene (S)	%	99	70-130	05/31/14 01:23	
Toluene-d8 (S)	%	100	70-130	05/31/14 01:23	

LABORATORY CONTROL SAMPLE: 1210762

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	46.3	93	70-130	
1,1,1-Trichloroethane	ug/L	50	47.2	94	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	48.1	96	70-130	
1,1,2-Trichloroethane	ug/L	50	49.6	99	70-130	
1,1-Dichloroethane	ug/L	50	44.5	89	70-130	
1,1-Dichloroethene	ug/L	50	50.3	101	70-132	
1,2,3-Trichloropropane	ug/L	50	50.0	100	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	49.9	100	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	48.1	96	70-130	
1,2-Dichlorobenzene	ug/L	50	48.4	97	70-130	
1,2-Dichloroethane	ug/L	50	47.1	94	70-130	
1,2-Dichloropropane	ug/L	50	47.3	95	70-130	
1,4-Dichlorobenzene	ug/L	50	46.9	94	70-130	
2-Butanone (MEK)	ug/L	100	99.9	100	70-145	
2-Hexanone	ug/L	100	98.5	99	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	100	107	107	70-140	
Acetone	ug/L	100	96.9	97	50-175	
Acrylonitrile	ug/L	250	247	99	70-143	
Benzene	ug/L	50	48.8	98	70-130	
Bromochloromethane	ug/L	50	49.0	98	70-130	
Bromodichloromethane	ug/L	50	46.3	93	70-130	
Bromoform	ug/L	50	48.6	97	70-130	
Bromomethane	ug/L	50	46.2	92	54-130	
Carbon disulfide	ug/L	50	48.0	96	70-131	
Carbon tetrachloride	ug/L	50	52.4	105	70-132	
Chlorobenzene	ug/L	50	45.4	91	70-130	
Chloroethane	ug/L	50	51.7	103	64-134	
Chloroform	ug/L	50	47.1	94	70-130	
Chloromethane	ug/L	50	47.7	95	64-130	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92203023

LABORATORY CONTROL SAMPLE: 1210762

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	50	47.4	95	70-131	
cis-1,3-Dichloropropene	ug/L	50	47.2	94	70-130	
Dibromochloromethane	ug/L	50	45.6	91	70-130	
Dibromomethane	ug/L	50	48.2	96	70-131	
Ethylbenzene	ug/L	50	45.4	91	70-130	
Iodomethane	ug/L	100	95.0	95	49-180	
m&p-Xylene	ug/L	100	93.7	94	70-130	
Methylene Chloride	ug/L	50	50.8	102	63-130	
o-Xylene	ug/L	50	45.7	91	70-130	
Styrene	ug/L	50	48.7	97	70-130	
Tetrachloroethene	ug/L	50	49.5	99	70-130	
Tetrahydrofuran	ug/L	500	510	102	70-130	
Toluene	ug/L	50	47.8	96	70-130	
trans-1,2-Dichloroethene	ug/L	50	48.3	97	70-130	
trans-1,3-Dichloropropene	ug/L	50	47.5	95	70-132	
trans-1,4-Dichloro-2-butene	ug/L	50	49.6	99	70-141	
Trichloroethene	ug/L	50	48.0	96	70-130	
Trichlorofluoromethane	ug/L	50	55.6	111	62-133	
Vinyl acetate	ug/L	100	99.1	99	66-157	
Vinyl chloride	ug/L	50	60.4	121	69-130	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1211546 1211547

Parameter	Units	92203116003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	56.2	60.5	112	121	70-166	7	
Benzene	ug/L	0.42J	50	50	52.0	56.3	103	112	70-148	8	
Chlorobenzene	ug/L	0.38J	50	50	48.3	51.7	96	103	70-146	7	
Toluene	ug/L	ND	50	50	48.5	52.1	97	104	70-155	7	
Trichloroethene	ug/L	ND	50	50	54.1	57.7	108	115	69-151	7	
1,2-Dichloroethane-d4 (S)	%						99	100	70-130		
4-Bromofluorobenzene (S)	%						100	101	70-130		
Toluene-d8 (S)	%						101	102	70-130		

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92203023

QC Batch: MSV/27035 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 92203023014, 92203023015, 92203023016, 92203023017, 92203023018, 92203023019, 92203023020

METHOD BLANK: 1210768 Matrix: Water
Associated Lab Samples: 92203023014, 92203023015, 92203023016, 92203023017, 92203023018, 92203023019, 92203023020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/31/14 01:07	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/31/14 01:07	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/31/14 01:07	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/31/14 01:07	
1,1-Dichloroethane	ug/L	ND	1.0	05/31/14 01:07	
1,1-Dichloroethene	ug/L	ND	1.0	05/31/14 01:07	
1,2,3-Trichloropropane	ug/L	ND	1.0	05/31/14 01:07	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	05/31/14 01:07	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/31/14 01:07	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/31/14 01:07	
1,2-Dichloroethane	ug/L	ND	1.0	05/31/14 01:07	
1,2-Dichloropropane	ug/L	ND	1.0	05/31/14 01:07	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/31/14 01:07	
2-Butanone (MEK)	ug/L	ND	5.0	05/31/14 01:07	
2-Hexanone	ug/L	ND	5.0	05/31/14 01:07	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	05/31/14 01:07	
Acetone	ug/L	ND	25.0	05/31/14 01:07	
Acrylonitrile	ug/L	ND	10.0	05/31/14 01:07	
Benzene	ug/L	ND	1.0	05/31/14 01:07	
Bromochloromethane	ug/L	ND	1.0	05/31/14 01:07	
Bromodichloromethane	ug/L	ND	1.0	05/31/14 01:07	
Bromoform	ug/L	ND	1.0	05/31/14 01:07	
Bromomethane	ug/L	ND	2.0	05/31/14 01:07	
Carbon disulfide	ug/L	ND	2.0	05/31/14 01:07	
Carbon tetrachloride	ug/L	ND	1.0	05/31/14 01:07	
Chlorobenzene	ug/L	ND	1.0	05/31/14 01:07	
Chloroethane	ug/L	ND	1.0	05/31/14 01:07	
Chloroform	ug/L	ND	1.0	05/31/14 01:07	
Chloromethane	ug/L	ND	1.0	05/31/14 01:07	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/31/14 01:07	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/31/14 01:07	
Dibromochloromethane	ug/L	ND	1.0	05/31/14 01:07	
Dibromomethane	ug/L	ND	1.0	05/31/14 01:07	
Ethylbenzene	ug/L	ND	1.0	05/31/14 01:07	
Iodomethane	ug/L	ND	5.0	05/31/14 01:07	
m&p-Xylene	ug/L	ND	2.0	05/31/14 01:07	
Methylene Chloride	ug/L	ND	1.0	05/31/14 01:07	
o-Xylene	ug/L	ND	1.0	05/31/14 01:07	
Styrene	ug/L	ND	1.0	05/31/14 01:07	
Tetrachloroethene	ug/L	ND	1.0	05/31/14 01:07	
Tetrahydrofuran	ug/L	ND	10.0	05/31/14 01:07	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92203023

METHOD BLANK: 1210768 Matrix: Water

Associated Lab Samples: 92203023014, 92203023015, 92203023016, 92203023017, 92203023018, 92203023019, 92203023020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Toluene	ug/L	ND	1.0	05/31/14 01:07	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/31/14 01:07	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/31/14 01:07	
trans-1,4-Dichloro-2-butene	ug/L	ND	1.0	05/31/14 01:07	
Trichloroethene	ug/L	ND	1.0	05/31/14 01:07	
Trichlorofluoromethane	ug/L	ND	1.0	05/31/14 01:07	
Vinyl acetate	ug/L	ND	2.0	05/31/14 01:07	
Vinyl chloride	ug/L	ND	1.0	05/31/14 01:07	
1,2-Dichloroethane-d4 (S)	%	98	70-130	05/31/14 01:07	
4-Bromofluorobenzene (S)	%	99	70-130	05/31/14 01:07	
Toluene-d8 (S)	%	99	70-130	05/31/14 01:07	

LABORATORY CONTROL SAMPLE: 1210769

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	47.2	94	70-130	
1,1,1-Trichloroethane	ug/L	50	48.6	97	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	46.2	92	70-130	
1,1,2-Trichloroethane	ug/L	50	48.1	96	70-130	
1,1-Dichloroethane	ug/L	50	46.0	92	70-130	
1,1-Dichloroethene	ug/L	50	52.6	105	70-132	
1,2,3-Trichloropropane	ug/L	50	48.1	96	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	48.7	97	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	47.6	95	70-130	
1,2-Dichlorobenzene	ug/L	50	49.0	98	70-130	
1,2-Dichloroethane	ug/L	50	48.0	96	70-130	
1,2-Dichloropropane	ug/L	50	47.9	96	70-130	
1,4-Dichlorobenzene	ug/L	50	47.7	95	70-130	
2-Butanone (MEK)	ug/L	100	93.1	93	70-145	
2-Hexanone	ug/L	100	90.0	90	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	100	96.8	97	70-140	
Acetone	ug/L	100	92.8	93	50-175	
Acrylonitrile	ug/L	250	238	95	70-143	
Benzene	ug/L	50	50.0	100	70-130	
Bromochloromethane	ug/L	50	49.5	99	70-130	
Bromodichloromethane	ug/L	50	47.2	94	70-130	
Bromoform	ug/L	50	47.6	95	70-130	
Bromomethane	ug/L	50	45.8	92	54-130	
Carbon disulfide	ug/L	50	49.6	99	70-131	
Carbon tetrachloride	ug/L	50	54.6	109	70-132	
Chlorobenzene	ug/L	50	46.1	92	70-130	
Chloroethane	ug/L	50	53.3	107	64-134	
Chloroform	ug/L	50	46.6	93	70-130	
Chloromethane	ug/L	50	49.3	99	64-130	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92203023

LABORATORY CONTROL SAMPLE: 1210769

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	50	48.2	96	70-131	
cis-1,3-Dichloropropene	ug/L	50	47.5	95	70-130	
Dibromochloromethane	ug/L	50	45.9	92	70-130	
Dibromomethane	ug/L	50	47.9	96	70-131	
Ethylbenzene	ug/L	50	46.5	93	70-130	
Iodomethane	ug/L	100	92.1	92	49-180	
m&p-Xylene	ug/L	100	94.8	95	70-130	
Methylene Chloride	ug/L	50	50.3	101	63-130	
o-Xylene	ug/L	50	46.5	93	70-130	
Styrene	ug/L	50	49.0	98	70-130	
Tetrachloroethene	ug/L	50	50.6	101	70-130	
Tetrahydrofuran	ug/L	500	477	95	70-130	
Toluene	ug/L	50	48.4	97	70-130	
trans-1,2-Dichloroethene	ug/L	50	50.3	101	70-130	
trans-1,3-Dichloropropene	ug/L	50	46.6	93	70-132	
trans-1,4-Dichloro-2-butene	ug/L	50	45.9	92	70-141	
Trichloroethene	ug/L	50	49.7	99	70-130	
Trichlorofluoromethane	ug/L	50	59.1	118	62-133	
Vinyl acetate	ug/L	100	96.7	97	66-157	
Vinyl chloride	ug/L	50	62.6	125	69-130	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1211548 1211549

Parameter	Units	92203121016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	59.4	71.6	119	143	70-166	19	
Benzene	ug/L	0.42J	50	50	54.7	67.4	109	134	70-148	21	
Chlorobenzene	ug/L	0.97J	50	50	51.1	62.7	100	124	70-146	20	
Toluene	ug/L	ND	50	50	50.8	62.4	102	125	70-155	20	
Trichloroethene	ug/L	ND	50	50	56.4	69.1	113	138	69-151	20	
1,2-Dichloroethane-d4 (S)	%						100	100	70-130		
4-Bromofluorobenzene (S)	%						100	100	70-130		
Toluene-d8 (S)	%						100	100	70-130		

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92203023

QC Batch: OEXT/27966
QC Batch Method: EPA 3510
Analysis Method: EPA 8081
Analysis Description: 8081A GCS Pesticides
Associated Lab Samples: 92203023005, 92203023012

METHOD BLANK: 1208414
Matrix: Water
Associated Lab Samples: 92203023005, 92203023012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
4,4'-DDD	ug/L	ND	0.050	05/30/14 10:32	
4,4'-DDT	ug/L	ND	0.050	05/30/14 10:32	
Aldrin	ug/L	ND	0.050	05/30/14 10:32	
alpha-BHC	ug/L	ND	0.050	05/30/14 10:32	
delta-BHC	ug/L	ND	0.050	05/30/14 10:32	
Endosulfan II	ug/L	ND	0.050	05/30/14 10:32	
Endrin	ug/L	ND	0.050	05/30/14 10:32	
Endrin aldehyde	ug/L	ND	0.050	05/30/14 10:32	
Heptachlor	ug/L	ND	0.050	05/30/14 10:32	
Methoxychlor	ug/L	ND	0.15	05/30/14 10:32	
Decachlorobiphenyl (S)	%	85	20-130	05/30/14 10:32	
Tetrachloro-m-xylene (S)	%	70	20-130	05/30/14 10:32	

LABORATORY CONTROL SAMPLE: 1208415

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4,4'-DDD	ug/L	.12	0.19	156	20-150	
4,4'-DDT	ug/L	.12	0.20	160	20-150	
Aldrin	ug/L	.12	0.14	113	20-150	
alpha-BHC	ug/L	.12	0.16	133	20-150	
delta-BHC	ug/L	.12	0.17	139	20-150	
Endosulfan II	ug/L	.12	0.19	156	20-150	
Endrin	ug/L	.12	0.19	151	20-150	
Endrin aldehyde	ug/L	.12	0.18	142	20-150	
Heptachlor	ug/L	.12	0.14	115	20-150	
Methoxychlor	ug/L	.37	0.62	167	20-150	
Decachlorobiphenyl (S)	%			83	20-130	
Tetrachloro-m-xylene (S)	%			68	20-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1208416 1208417

Parameter	Units	92202747001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
4,4'-DDD	ug/L	ND	.25	.25	0.43	0.36	172	145	20-150	17	
4,4'-DDT	ug/L	ND	.25	.25	0.46	0.37	187	148	20-150	23	
Aldrin	ug/L	ND	.25	.25	0.33	0.25	134	100	20-150	29	
alpha-BHC	ug/L	ND	.25	.25	0.38	0.32	153	130	20-150	16	
delta-BHC	ug/L	ND	.25	.25	0.41	0.34	166	137	20-150	19	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92203023

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1208416 1208417

Parameter	Units	92202747001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Endosulfan II	ug/L	ND	.25	.25	0.43	0.37	173	149	20-150	15	
Endrin	ug/L	ND	.25	.25	0.45	0.36	183	145	20-150	23	
Endrin aldehyde	ug/L	ND	.25	.25	0.40	0.35	163	140	20-150	15	
Heptachlor	ug/L	ND	.25	.25	0.35	0.26	142	106	20-150	30	
Methoxychlor	ug/L	ND	.74	.74	1.4	1.1	187	153	20-150	20	
Decachlorobiphenyl (S)	%						90	79	20-130		
Tetrachloro-m-xylene (S)	%						75	67	20-130		

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92203023

QC Batch: OEXT/28073 | Analysis Method: EPA 8081
QC Batch Method: EPA 3510 | Analysis Description: 8081A GCS Pesticides
Associated Lab Samples: 92203023019, 92203023020

METHOD BLANK: 1213036 | Matrix: Water
Associated Lab Samples: 92203023019, 92203023020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
4,4'-DDD	ug/L	ND	0.050	06/05/14 14:07	
4,4'-DDT	ug/L	ND	0.050	06/05/14 14:07	
Aldrin	ug/L	ND	0.050	06/05/14 14:07	
alpha-BHC	ug/L	ND	0.050	06/05/14 14:07	
delta-BHC	ug/L	ND	0.050	06/05/14 14:07	
Endosulfan II	ug/L	ND	0.050	06/05/14 14:07	
Endrin	ug/L	ND	0.050	06/05/14 14:07	
Endrin aldehyde	ug/L	ND	0.050	06/05/14 14:07	
Heptachlor	ug/L	ND	0.050	06/05/14 14:07	
Methoxychlor	ug/L	ND	0.15	06/05/14 14:07	
Decachlorobiphenyl (S)	%	86	20-130	06/05/14 14:07	
Tetrachloro-m-xylene (S)	%	76	20-130	06/05/14 14:07	

LABORATORY CONTROL SAMPLE: 1213037

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4,4'-DDD	ug/L	.12	0.21	167	20-150	
4,4'-DDT	ug/L	.12	0.22	177	20-150	
Aldrin	ug/L	.12	0.12	99	20-150	
alpha-BHC	ug/L	.12	0.16	131	20-150	
delta-BHC	ug/L	.12	0.19	150	20-150	
Endosulfan II	ug/L	.12	0.21	167	20-150	
Endrin	ug/L	.12	0.21	167	20-150	
Endrin aldehyde	ug/L	.12	0.19	154	20-150	
Heptachlor	ug/L	.12	0.13	103	20-150	
Methoxychlor	ug/L	.37	0.65	176	20-150	
Decachlorobiphenyl (S)	%			85	20-130	
Tetrachloro-m-xylene (S)	%			67	20-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1213038 1213039

Parameter	Units	92203023020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
4,4'-DDD	ug/L	ND	.25	.25	0.65	0.48	262	195	20-150	30	
4,4'-DDT	ug/L	ND	.25	.25	0.73	0.55	297	221	20-150	29	
Aldrin	ug/L	ND	.25	.25	0.43	0.33	176	134	20-150	27	
alpha-BHC	ug/L	ND	.25	.25	0.46	0.35	184	143	20-150	25	
delta-BHC	ug/L	ND	.25	.25	0.44	0.32	178	131	20-150	30	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92203023

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1213038 1213039

Parameter	Units	92203023020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Endosulfan II	ug/L	ND	.25	.25	0.56	0.43	226	174	20-150	26	
Endrin	ug/L	ND	.25	.25	0.70	0.51	285	207	20-150	32	R1
Endrin aldehyde	ug/L	ND	.25	.25	0.58	0.43	234	174	20-150	30	
Heptachlor	ug/L	ND	.25	.25	0.56	0.39	224	159	20-150	34	R1
Methoxychlor	ug/L	ND	.74	.74	2.1	1.6	286	215	20-150	28	
Decachlorobiphenyl (S)	%						135	88	20-130		S5
Tetrachloro-m-xylene (S)	%						100	69	20-130		

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92203023

QC Batch: OEXT/17531
QC Batch Method: EPA 8151
Analysis Method: EPA 8151
Analysis Description: 8151A GCS Herbicides
Associated Lab Samples: 92203023005, 92203023012

METHOD BLANK: 915974
Matrix: Water
Associated Lab Samples: 92203023005, 92203023012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4,5-TP (Silvex)	ug/L	ND	0.19	06/03/14 01:29	
2,4-D	ug/L	ND	0.94	06/03/14 01:29	
2,4-DCAA (S)	%	79	65.5-125.7	06/03/14 01:29	

LABORATORY CONTROL SAMPLE: 915975

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,5-TP (Silvex)	ug/L	1.2	1.1	93	65.6-127.9	
2,4-D	ug/L	6	4.8	80	62-135.6	
2,4-DCAA (S)	%			83	65.5-125.7	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 917076 917077

Parameter	Units	92203023005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
2,4,5-TP (Silvex)	ug/L	ND	2.4	2.4	2.2	2.2	90	90	65.6-127	.3	
2,4-D	ug/L	ND	12	12	9.8	10.1	82	84	62-135.6	3	
2,4-DCAA (S)	%						84	85	65.5-125		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92203023

QC Batch: OEXT/17569
QC Batch Method: EPA 8151
Analysis Method: EPA 8151
Analysis Description: 8151A GCS Herbicides
Associated Lab Samples: 92203023019, 92203023020

METHOD BLANK: 918281
Matrix: Water
Associated Lab Samples: 92203023019, 92203023020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4,5-TP (Silvex)	ug/L	ND	0.19	06/05/14 03:04	
2,4-D	ug/L	ND	0.94	06/05/14 03:04	
2,4-DCAA (S)	%	101	65.5-125.7	06/05/14 03:04	

LABORATORY CONTROL SAMPLE: 918282

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,5-TP (Silvex)	ug/L	1.2	1.2	100	65.6-127.9	
2,4-D	ug/L	6	5.8	97	62-135.6	
2,4-DCAA (S)	%			93	65.5-125.7	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 918283 918284

Parameter	Units	92203313004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
2,4,5-TP (Silvex)	ug/L	ND	1.2	1.2	1.2	0.90	101	75	65.6-127	29	
2,4-D	ug/L	ND	6	6	5.3	6.4	88	106	62-135.6	18	
2,4-DCAA (S)	%						88	91	65.5-125		

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92203023

QC Batch: OEXT/28067 | Analysis Method: EPA 8270
QC Batch Method: EPA 3510 | Analysis Description: 8270 Water MSSV
Associated Lab Samples: 92203023005, 92203023012, 92203023019

METHOD BLANK: 1212697 | Matrix: Water
Associated Lab Samples: 92203023005, 92203023012, 92203023019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzo(a)anthracene	ug/L	ND	10.0	06/04/14 11:09	
bis(2-Ethylhexyl)phthalate	ug/L	ND	6.0	06/04/14 11:09	
Chrysene	ug/L	ND	10.0	06/04/14 11:09	
2,4,6-Tribromophenol (S)	%	74	27-110	06/04/14 11:09	
2-Fluorobiphenyl (S)	%	73	27-110	06/04/14 11:09	
2-Fluorophenol (S)	%	38	12-110	06/04/14 11:09	
Nitrobenzene-d5 (S)	%	68	21-110	06/04/14 11:09	
Phenol-d6 (S)	%	29	10-110	06/04/14 11:09	
Terphenyl-d14 (S)	%	97	31-107	06/04/14 11:09	

LABORATORY CONTROL SAMPLE: 1212698

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzo(a)anthracene	ug/L	50	41.0	82	21-128	
bis(2-Ethylhexyl)phthalate	ug/L	50	46.7	93	16-123	
Chrysene	ug/L	50	42.1	84	24-125	
2,4,6-Tribromophenol (S)	%			83	27-110	
2-Fluorobiphenyl (S)	%			81	27-110	
2-Fluorophenol (S)	%			46	12-110	
Nitrobenzene-d5 (S)	%			72	21-110	
Phenol-d6 (S)	%			39	10-110	
Terphenyl-d14 (S)	%			81	31-107	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1212699 1212700

Parameter	Units	92203023019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Benzo(a)anthracene	ug/L	ND	100	100	86.8	89.3	87	89	22-117	3	
bis(2-Ethylhexyl)phthalate	ug/L	ND	100	100	98.6	101	99	101	23-102	2	
Chrysene	ug/L	ND	100	100	90.2	91.9	90	92	23-115	2	
2,4,6-Tribromophenol (S)	%						90	91	27-110		
2-Fluorobiphenyl (S)	%						92	92	27-110		
2-Fluorophenol (S)	%						63	60	12-110		
Nitrobenzene-d5 (S)	%						85	84	21-110		
Phenol-d6 (S)	%						48	43	10-110		
Terphenyl-d14 (S)	%						84	90	31-107		

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92203023

QC Batch: OEXT/28115
QC Batch Method: EPA 3510
Analysis Method: EPA 8270
Analysis Description: 8270 Water MSSV
Associated Lab Samples: 92203023020

METHOD BLANK: 1215189
Matrix: Water
Associated Lab Samples: 92203023020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzo(a)anthracene	ug/L	ND	10.0	06/06/14 14:47	
bis(2-Ethylhexyl)phthalate	ug/L	ND	6.0	06/06/14 14:47	
Chrysene	ug/L	ND	10.0	06/06/14 14:47	
2,4,6-Tribromophenol (S)	%	35	27-110	06/06/14 14:47	
2-Fluorobiphenyl (S)	%	36	27-110	06/06/14 14:47	
2-Fluorophenol (S)	%	20	12-110	06/06/14 14:47	
Nitrobenzene-d5 (S)	%	33	21-110	06/06/14 14:47	
Phenol-d6 (S)	%	13	10-110	06/06/14 14:47	
Terphenyl-d14 (S)	%	78	31-107	06/06/14 14:47	

LABORATORY CONTROL SAMPLE: 1215190

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzo(a)anthracene	ug/L	50	43.6	87	56-121	
bis(2-Ethylhexyl)phthalate	ug/L	50	46.2	92	50-145	
Chrysene	ug/L	50	45.4	91	58-127	
2,4,6-Tribromophenol (S)	%			91	27-110	
2-Fluorobiphenyl (S)	%			76	27-110	
2-Fluorophenol (S)	%			44	12-110	
Nitrobenzene-d5 (S)	%			71	21-110	
Phenol-d6 (S)	%			32	10-110	
Terphenyl-d14 (S)	%			88	31-107	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1215191 1215192

Parameter	Units	92204150001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Benzo(a)anthracene	ug/L	ND	100	100	79.3	79.5	79	79	22-117	0	
bis(2-Ethylhexyl)phthalate	ug/L	ND	100	100	85.2	87.1	85	87	23-102	2	
Chrysene	ug/L	ND	100	100	79.4	81.9	79	82	23-115	3	
2,4,6-Tribromophenol (S)	%						79	72	27-110		
2-Fluorobiphenyl (S)	%						70	50	27-110		
2-Fluorophenol (S)	%						45	36	12-110		
Nitrobenzene-d5 (S)	%						69	49	21-110		
Phenol-d6 (S)	%						37	29	10-110		
Terphenyl-d14 (S)	%						80	81	31-107		

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92203023

QC Batch: WET/31316 | Analysis Method: SM 2320B
QC Batch Method: SM 2320B | Analysis Description: 2320B Alkalinity
Associated Lab Samples: 92203023002, 92203023003, 92203023004, 92203023005, 92203023006, 92203023007, 92203023008, 92203023009, 92203023010, 92203023011, 92203023012

METHOD BLANK: 1211481 | Matrix: Water
Associated Lab Samples: 92203023002, 92203023003, 92203023004, 92203023005, 92203023006, 92203023007, 92203023008, 92203023009, 92203023010, 92203023011, 92203023012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	ug/L	ND	5000	06/02/14 11:41	

LABORATORY CONTROL SAMPLE: 1211482

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	ug/L	50000	48200	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1211483 1211484

Parameter	Units	92202847001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Alkalinity, Total as CaCO3	ug/L	56.9 mg/L	50000	50000	104000	103000	95	92	75-125	1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1211485 1211486

Parameter	Units	92202847004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Alkalinity, Total as CaCO3	ug/L	163 mg/L	50000	50000	206000	200000	85	74	75-125	3	M1

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92203023

QC Batch: WET/31470 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 92203023014, 92203023015, 92203023016, 92203023017, 92203023018, 92203023019, 92203023020

METHOD BLANK: 1217302 Matrix: Water
Associated Lab Samples: 92203023014, 92203023015, 92203023016, 92203023017, 92203023018, 92203023019, 92203023020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	ug/L	ND	5000	06/10/14 13:17	

LABORATORY CONTROL SAMPLE: 1217303

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	ug/L	50000	46500	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1217304 1217305

Parameter	Units	92203843001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Alkalinity, Total as CaCO3	ug/L	50.7 mg/L	50000	50000	75900	75000	50	49	75-125	1	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1217306 1217307

Parameter	Units	92203843002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Alkalinity, Total as CaCO3	ug/L	64.7 mg/L	50000	50000	106000	106000	82	83	75-125	0	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92203023

QC Batch: WET/31329 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 92203023002, 92203023003, 92203023004, 92203023005

METHOD BLANK: 1212261 Matrix: Water
Associated Lab Samples: 92203023002, 92203023003, 92203023004, 92203023005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	ug/L	ND	25000	06/03/14 05:35	

LABORATORY CONTROL SAMPLE: 1212262

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	ug/L	250000	240000	96	80-120	

SAMPLE DUPLICATE: 1212263

Parameter	Units	92202875001 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	ug/L	431 mg/L	410000	5	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92203023

QC Batch: WET/31347 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 92203023006, 92203023007, 92203023008, 92203023009, 92203023010, 92203023011, 92203023012

METHOD BLANK: 1213318 | Matrix: Water
Associated Lab Samples: 92203023006, 92203023007, 92203023008, 92203023009, 92203023010, 92203023011, 92203023012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	ug/L	ND	25000	06/04/14 04:16	

LABORATORY CONTROL SAMPLE: 1213319

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	ug/L	250000	250000	100	80-120	

SAMPLE DUPLICATE: 1213320

Parameter	Units	92203043001 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	ug/L	4870 mg/L	5050000	4	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92203023

QC Batch: WET/31370 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 92203023014, 92203023015, 92203023016

METHOD BLANK: 1214156 Matrix: Water
Associated Lab Samples: 92203023014, 92203023015, 92203023016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	ug/L	ND	25000	06/04/14 17:15	

LABORATORY CONTROL SAMPLE: 1214157

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	ug/L	250000	250000	100	80-120	

SAMPLE DUPLICATE: 1214158

Parameter	Units	92203393002 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	ug/L	30.0 mg/L	30000	0	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92203023

QC Batch: WET/31378 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 92203023017, 92203023018, 92203023019, 92203023020

METHOD BLANK: 1214430 Matrix: Water
Associated Lab Samples: 92203023017, 92203023018, 92203023019, 92203023020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	ug/L	ND	25000	06/05/14 05:34	

LABORATORY CONTROL SAMPLE: 1214431

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	ug/L	250000	208000	83	80-120	

SAMPLE DUPLICATE: 1214432

Parameter	Units	92203023017 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	ug/L	319000	372000	15	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92203023

QC Batch: WET/31323 Analysis Method: SM 4500-S2D
QC Batch Method: SM 4500-S2D Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 92203023002, 92203023003, 92203023004, 92203023005, 92203023006, 92203023007, 92203023008, 92203023009, 92203023010, 92203023011, 92203023012

METHOD BLANK: 1211984 Matrix: Water
Associated Lab Samples: 92203023002, 92203023003, 92203023004, 92203023005, 92203023006, 92203023007, 92203023008, 92203023009, 92203023010, 92203023011, 92203023012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	ug/L	ND	100	06/03/14 15:47	

LABORATORY CONTROL SAMPLE: 1211985

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	ug/L	500	508	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1211988 1211989

Parameter	Units	92203023007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Sulfide	ug/L	ND	500	500	309	309	62	62	75-125	0	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1212570 1212571

Parameter	Units	92203023002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Sulfide	ug/L	ND	500	500	484	484	97	97	75-125	0	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92203023

QC Batch: WET/31341 Analysis Method: SM 4500-S2D
QC Batch Method: SM 4500-S2D Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 92203023014, 92203023015, 92203023016, 92203023017, 92203023018, 92203023019, 92203023020

METHOD BLANK: 1213017 Matrix: Water
Associated Lab Samples: 92203023014, 92203023015, 92203023016, 92203023017, 92203023018, 92203023019, 92203023020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	ug/L	ND	100	06/04/14 13:25	

LABORATORY CONTROL SAMPLE: 1213018

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	ug/L	500	516	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1213019 1213020

Parameter	Units	92203023014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Sulfide	ug/L	ND	500	500	499	499	100	100	75-125	0	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92203023

QC Batch: WETA/19161 — Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 — Analysis Description: 300.0 IC Anions
Associated Lab Samples: 92203023002, 92203023003, 92203023004, 92203023005, 92203023006, 92203023007, 92203023008, 92203023009, 92203023010, 92203023011

METHOD BLANK: 1210867 — Matrix: Water
Associated Lab Samples: 92203023002, 92203023003, 92203023004, 92203023005, 92203023006, 92203023007, 92203023008, 92203023009, 92203023010, 92203023011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	ug/L	ND	2000	06/02/14 18:18	

LABORATORY CONTROL SAMPLE: 1210868

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1210869 — 1210870

Parameter	Units	92202491003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Sulfate	ug/L	ND	20000	20000	21700	21700	102	102	90-110	0	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1210871 — 1210872

Parameter	Units	92203023003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Sulfate	ug/L	ND	20000	20000	20800	21000	104	105	90-110	1	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92203023

QC Batch: WETA/19162
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Associated Lab Samples: 92203023012

METHOD BLANK: 1210885
Matrix: Water
Associated Lab Samples: 92203023012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	ug/L	ND	2000	06/03/14 01:32	

LABORATORY CONTROL SAMPLE: 1210886

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	20000	19100	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1210887 1210888

Parameter	Units	92203023012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Sulfate	ug/L	85200	20000	20000	99900	93900	73	44	90-110	6	M6

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1210889 1210890

Parameter	Units	92203263009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Sulfate	ug/L	13.2 mg/L	20000	20000	38200	37800	125	123	90-110	1	M1

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92203023

QC Batch: WETA/19211 | Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 | Analysis Description: 300.0 IC Anions
Associated Lab Samples: 92203023014, 92203023015, 92203023016

METHOD BLANK: 1214099 | Matrix: Water
Associated Lab Samples: 92203023014, 92203023015, 92203023016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	ug/L	ND	2000	06/05/14 18:58	

LABORATORY CONTROL SAMPLE: 1214100

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1214101 1214102

Parameter	Units	92203770001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Sulfate	ug/L	2030 mg/L	20000	20000	2150000	2160000	623	646	90-110	0	M6

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1214103 1214104

Parameter	Units	92203346005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Sulfate	ug/L	7.8 mg/L	20000	20000	28300	28400	103	103	90-110	0	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92203023

QC Batch: WETA/19232 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 92203023017, 92203023018, 92203023019, 92203023020

METHOD BLANK: 1215539 Matrix: Water
Associated Lab Samples: 92203023017, 92203023018, 92203023019, 92203023020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	ug/L	ND	2000	06/09/14 12:16	

LABORATORY CONTROL SAMPLE: 1215540

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	20000	19100	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1215541 1215542

Parameter	Units	92204031001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Sulfate	ug/L	ND	20000	20000	19400	19200	90	89	90-110	1	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1215543 1215544

Parameter	Units	92203023017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Sulfate	ug/L	26300	20000	20000	48900	46700	113	102	90-110	5	M1

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92203023

QC Batch: WETA/19242 Analysis Method: SM 4500-Cl-E
QC Batch Method: SM 4500-Cl-E Analysis Description: 4500 Chloride
Associated Lab Samples: 92203023002, 92203023003, 92203023004, 92203023005, 92203023006, 92203023007

METHOD BLANK: 1216298 Matrix: Water
Associated Lab Samples: 92203023002, 92203023003, 92203023004, 92203023005, 92203023006, 92203023007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	ug/L	ND	1000	06/06/14 22:08	

LABORATORY CONTROL SAMPLE: 1216299

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	ug/L	20000	19300	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1216300 1216301

Parameter	Units	92202875001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chloride	ug/L	108 mg/L	20000	20000	124000	126000	82	90	75-125	1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1216302 1216303

Parameter	Units	92203023004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chloride	ug/L	3630	20000	20000	3240	3800	-2	1	75-125	16	M1

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92203023

QC Batch: WETA/19260 Analysis Method: SM 4500-Cl-E
QC Batch Method: SM 4500-Cl-E Analysis Description: 4500 Chloride
Associated Lab Samples: 92203023008, 92203023009, 92203023010, 92203023011, 92203023012

METHOD BLANK: 1217201 Matrix: Water
Associated Lab Samples: 92203023008, 92203023009, 92203023010, 92203023011, 92203023012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	ug/L	ND	1000	06/10/14 15:12	

LABORATORY CONTROL SAMPLE: 1217202

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1217205 1217206

Parameter	Units	92203023008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chloride	ug/L	6180	20000	20000	26000	25800	99	98	75-125	1	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92203023

QC Batch: WETA/19285 Analysis Method: SM 4500-Cl-E
QC Batch Method: SM 4500-Cl-E Analysis Description: 4500 Chloride
Associated Lab Samples: 92203023014, 92203023015, 92203023016, 92203023017, 92203023018, 92203023019, 92203023020

METHOD BLANK: 1219474 Matrix: Water
Associated Lab Samples: 92203023014, 92203023015, 92203023016, 92203023017, 92203023018, 92203023019, 92203023020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	ug/L	ND	1000	06/11/14 20:51	

LABORATORY CONTROL SAMPLE: 1219475

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	ug/L	20000	21600	108	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1219476 1219477

Parameter	Units	92203023014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chloride	ug/L	13900	20000	20000	34100	34400	101	103	75-125	1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1219515 1219516

Parameter	Units	92204473007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chloride	ug/L	31.5 mg/L	20000	20000	49700	49900	91	92	75-125	0	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92203023

QC Batch: WETA/19167
Analysis Method: SM 4500-CN-E
QC Batch Method: SM 4500-CN-E
Analysis Description: 4500CNE Cyanide, Total
Associated Lab Samples: 92203023002, 92203023003

METHOD BLANK: 1211202
Matrix: Water
Associated Lab Samples: 92203023002, 92203023003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	ug/L	ND	5.0	06/01/14 13:38	

LABORATORY CONTROL SAMPLE: 1211203

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1211204 1211205

Parameter	Units	92202518002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Cyanide	ug/L	0.0066 mg/L	100	100	102	101	95	94	75-125	1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1211206 1211207

Parameter	Units	92203077002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Cyanide	ug/L	0.032 mg/L	100	100	70.0	61.2	38	29	75-125	13	M1

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92203023

QC Batch: WETA/19243 | Analysis Method: SM 4500-CN-E
QC Batch Method: SM 4500-CN-E | Analysis Description: 4500CNE Cyanide, Total
Associated Lab Samples: 92203023004, 92203023005, 92203023006, 92203023007, 92203023008, 92203023009, 92203023010, 92203023011, 92203023012, 92203023014

METHOD BLANK: 1216407 | Matrix: Water
Associated Lab Samples: 92203023004, 92203023005, 92203023006, 92203023007, 92203023008, 92203023009, 92203023010, 92203023011, 92203023012, 92203023014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	ug/L	ND	5.0	06/09/14 10:32	

LABORATORY CONTROL SAMPLE: 1216408

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	100	107	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1216409 1216410

Parameter	Units	92203836001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Cyanide	ug/L	ND	100	100	110	112	108	110	75-125	1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1216411 1216412

Parameter	Units	92203023009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Cyanide	ug/L	ND	100	100	111	109	110	108	75-125	1	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92203023

QC Batch: WETA/19246 | Analysis Method: SM 4500-CN-E
QC Batch Method: SM 4500-CN-E | Analysis Description: 4500CNE Cyanide, Total
Associated Lab Samples: 92203023015, 92203023016, 92203023017, 92203023018, 92203023019, 92203023020

METHOD BLANK: 1216425 | Matrix: Water
Associated Lab Samples: 92203023015, 92203023016, 92203023017, 92203023018, 92203023019, 92203023020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	ug/L	ND	5.0	06/09/14 11:53	

LABORATORY CONTROL SAMPLE: 1216426

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	100	87.6	88	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1216427 1216428

Parameter	Units	92204279013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Cyanide	ug/L	0.042 mg/L	100	100	125	125	83	82	75-125	0	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1216429 1216430

Parameter	Units	92203023019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Cyanide	ug/L	ND	100	100	95.4	92.3	92	89	75-125	3	

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QUALIFIERS

Project: OSR
Pace Project No.: 92203023

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

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TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte
PASI-O	Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
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.
R1	RPD value was outside control limits.
S5	Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OSR
Pace Project No.: 92203023

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92203023002	**3412-MW8**		FLD/		
92203023003	**3412-MW9**		FLD/		
92203023004	**3412-MW14**		FLD/		
92203023005	**3412-MW15**		FLD/		
92203023006	**3412-MW10**		FLD/		
92203023007	**3412-MW11**		FLD/		
92203023008	**3412-MW12**		FLD/		
92203023009	**3412-MW13**		FLD/		
92203023010	**3412-MW3R**		FLD/		
92203023011	**3412-MW7**		FLD/		
92203023012	**3412-MW4R**		FLD/		
92203023014	**3412-MW5R**		FLD/		
92203023015	**3412-SW1**		FLD/		
92203023016	**3412-SW2**		FLD/		
92203023017	**3412-SW3**		FLD/		
92203023018	**3412-SW4**		FLD/		
92203023019	**3412-MW1R**		FLD/		
92203023020	**3412-MW2R**		FLD/		
92203023005	**3412-MW15**	EPA 3510	OEXT/27966	EPA 8081	GCSV/17772
92203023012	**3412-MW4R**	EPA 3510	OEXT/27966	EPA 8081	GCSV/17772
92203023019	**3412-MW1R**	EPA 3510	OEXT/28073	EPA 8081	GCSV/17827
92203023020	**3412-MW2R**	EPA 3510	OEXT/28073	EPA 8081	GCSV/17827
92203023005	**3412-MW15**	EPA 8151	OEXT/17531	EPA 8151	GCSV/11477
92203023012	**3412-MW4R**	EPA 8151	OEXT/17531	EPA 8151	GCSV/11477
92203023019	**3412-MW1R**	EPA 8151	OEXT/17569	EPA 8151	GCSV/11499
92203023020	**3412-MW2R**	EPA 8151	OEXT/17569	EPA 8151	GCSV/11499
92203023002	**3412-MW8**	EPA 3010	MPRP/16098	EPA 6010	ICP/14556
92203023003	**3412-MW9**	EPA 3010	MPRP/16098	EPA 6010	ICP/14556
92203023004	**3412-MW14**	EPA 3010	MPRP/16098	EPA 6010	ICP/14556
92203023005	**3412-MW15**	EPA 3010	MPRP/16105	EPA 6010	ICP/14567
92203023006	**3412-MW10**	EPA 3010	MPRP/16098	EPA 6010	ICP/14556
92203023007	**3412-MW11**	EPA 3010	MPRP/16098	EPA 6010	ICP/14556
92203023008	**3412-MW12**	EPA 3010	MPRP/16098	EPA 6010	ICP/14556
92203023009	**3412-MW13**	EPA 3010	MPRP/16098	EPA 6010	ICP/14556
92203023010	**3412-MW3R**	EPA 3010	MPRP/16098	EPA 6010	ICP/14556
92203023011	**3412-MW7**	EPA 3010	MPRP/16098	EPA 6010	ICP/14556
92203023012	**3412-MW4R**	EPA 3010	MPRP/16098	EPA 6010	ICP/14556
92203023014	**3412-MW5R**	EPA 3010	MPRP/16119	EPA 6010	ICP/14580
92203023015	**3412-SW1**	EPA 3010	MPRP/16119	EPA 6010	ICP/14580
92203023016	**3412-SW2**	EPA 3010	MPRP/16119	EPA 6010	ICP/14580
92203023017	**3412-SW3**	EPA 3010	MPRP/16119	EPA 6010	ICP/14580
92203023018	**3412-SW4**	EPA 3010	MPRP/16119	EPA 6010	ICP/14580
92203023019	**3412-MW1R**	EPA 3010	MPRP/16119	EPA 6010	ICP/14580
92203023020	**3412-MW2R**	EPA 3010	MPRP/16119	EPA 6010	ICP/14580

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(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OSR
Pace Project No.: 92203023

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92203023002	**3412-MW8**	EPA 7470	MERP/6686	EPA 7470	MERC/6444
92203023003	**3412-MW9**	EPA 7470	MERP/6686	EPA 7470	MERC/6444
92203023004	**3412-MW14**	EPA 7470	MERP/6686	EPA 7470	MERC/6444
92203023005	**3412-MW15**	EPA 7470	MERP/6686	EPA 7470	MERC/6444
92203023006	**3412-MW10**	EPA 7470	MERP/6686	EPA 7470	MERC/6444
92203023007	**3412-MW11**	EPA 7470	MERP/6686	EPA 7470	MERC/6444
92203023008	**3412-MW12**	EPA 7470	MERP/6686	EPA 7470	MERC/6444
92203023009	**3412-MW13**	EPA 7470	MERP/6698	EPA 7470	MERC/6454
92203023010	**3412-MW3R**	EPA 7470	MERP/6698	EPA 7470	MERC/6454
92203023011	**3412-MW7**	EPA 7470	MERP/6698	EPA 7470	MERC/6454
92203023012	**3412-MW4R**	EPA 7470	MERP/6698	EPA 7470	MERC/6454
92203023014	**3412-MW5R**	EPA 7470	MERP/6689	EPA 7470	MERC/6449
92203023015	**3412-SW1**	EPA 7470	MERP/6689	EPA 7470	MERC/6449
92203023016	**3412-SW2**	EPA 7470	MERP/6689	EPA 7470	MERC/6449
92203023017	**3412-SW3**	EPA 7470	MERP/6689	EPA 7470	MERC/6449
92203023018	**3412-SW4**	EPA 7470	MERP/6689	EPA 7470	MERC/6449
92203023019	**3412-MW1R**	EPA 7470	MERP/6689	EPA 7470	MERC/6449
92203023020	**3412-MW2R**	EPA 7470	MERP/6689	EPA 7470	MERC/6449
92203023005	**3412-MW15**	EPA 3510	OEXT/28067	EPA 8270	MSSV/9200
92203023012	**3412-MW4R**	EPA 3510	OEXT/28067	EPA 8270	MSSV/9200
92203023019	**3412-MW1R**	EPA 3510	OEXT/28067	EPA 8270	MSSV/9200
92203023020	**3412-MW2R**	EPA 3510	OEXT/28115	EPA 8270	MSSV/9213
92203023001	**3412-EQUIPMENT BLANK**	EPA 8260	MSV/26995		
92203023002	**3412-MW8**	EPA 8260	MSV/26995		
92203023003	**3412-MW9**	EPA 8260	MSV/26995		
92203023004	**3412-MW14**	EPA 8260	MSV/26995		
92203023005	**3412-MW15**	EPA 8260	MSV/26995		
92203023006	**3412-MW10**	EPA 8260	MSV/26995		
92203023007	**3412-MW11**	EPA 8260	MSV/26995		
92203023008	**3412-MW12**	EPA 8260	MSV/26995		
92203023009	**3412-MW13**	EPA 8260	MSV/26995		
92203023010	**3412-MW3R**	EPA 8260	MSV/26995		
92203023011	**3412-MW7**	EPA 8260	MSV/26995		
92203023012	**3412-MW4R**	EPA 8260	MSV/26995		
92203023013	**3412-TRIP BLANK**	EPA 8260	MSV/27034		
92203023014	**3412-MW5R**	EPA 8260	MSV/27035		
92203023015	**3412-SW1**	EPA 8260	MSV/27035		
92203023016	**3412-SW2**	EPA 8260	MSV/27035		
92203023017	**3412-SW3**	EPA 8260	MSV/27035		
92203023018	**3412-SW4**	EPA 8260	MSV/27035		
92203023019	**3412-MW1R**	EPA 8260	MSV/27035		
92203023020	**3412-MW2R**	EPA 8260	MSV/27035		
92203023002	**3412-MW8**	SM 2320B	WET/31316		
92203023003	**3412-MW9**	SM 2320B	WET/31316		
92203023004	**3412-MW14**	SM 2320B	WET/31316		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OSR
Pace Project No.: 92203023

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92203023005	**3412-MW15**	SM 2320B	WET/31316		
92203023006	**3412-MW10**	SM 2320B	WET/31316		
92203023007	**3412-MW11**	SM 2320B	WET/31316		
92203023008	**3412-MW12**	SM 2320B	WET/31316		
92203023009	**3412-MW13**	SM 2320B	WET/31316		
92203023010	**3412-MW3R**	SM 2320B	WET/31316		
92203023011	**3412-MW7**	SM 2320B	WET/31316		
92203023012	**3412-MW4R**	SM 2320B	WET/31316		
92203023014	**3412-MW5R**	SM 2320B	WET/31470		
92203023015	**3412-SW1**	SM 2320B	WET/31470		
92203023016	**3412-SW2**	SM 2320B	WET/31470		
92203023017	**3412-SW3**	SM 2320B	WET/31470		
92203023018	**3412-SW4**	SM 2320B	WET/31470		
92203023019	**3412-MW1R**	SM 2320B	WET/31470		
92203023020	**3412-MW2R**	SM 2320B	WET/31470		
92203023002	**3412-MW8**	SM 2540C	WET/31329		
92203023003	**3412-MW9**	SM 2540C	WET/31329		
92203023004	**3412-MW14**	SM 2540C	WET/31329		
92203023005	**3412-MW15**	SM 2540C	WET/31329		
92203023006	**3412-MW10**	SM 2540C	WET/31347		
92203023007	**3412-MW11**	SM 2540C	WET/31347		
92203023008	**3412-MW12**	SM 2540C	WET/31347		
92203023009	**3412-MW13**	SM 2540C	WET/31347		
92203023010	**3412-MW3R**	SM 2540C	WET/31347		
92203023011	**3412-MW7**	SM 2540C	WET/31347		
92203023012	**3412-MW4R**	SM 2540C	WET/31347		
92203023014	**3412-MW5R**	SM 2540C	WET/31370		
92203023015	**3412-SW1**	SM 2540C	WET/31370		
92203023016	**3412-SW2**	SM 2540C	WET/31370		
92203023017	**3412-SW3**	SM 2540C	WET/31378		
92203023018	**3412-SW4**	SM 2540C	WET/31378		
92203023019	**3412-MW1R**	SM 2540C	WET/31378		
92203023020	**3412-MW2R**	SM 2540C	WET/31378		
92203023002	**3412-MW8**	SM 4500-S2D	WET/31323		
92203023003	**3412-MW9**	SM 4500-S2D	WET/31323		
92203023004	**3412-MW14**	SM 4500-S2D	WET/31323		
92203023005	**3412-MW15**	SM 4500-S2D	WET/31323		
92203023006	**3412-MW10**	SM 4500-S2D	WET/31323		
92203023007	**3412-MW11**	SM 4500-S2D	WET/31323		
92203023008	**3412-MW12**	SM 4500-S2D	WET/31323		
92203023009	**3412-MW13**	SM 4500-S2D	WET/31323		
92203023010	**3412-MW3R**	SM 4500-S2D	WET/31323		
92203023011	**3412-MW7**	SM 4500-S2D	WET/31323		
92203023012	**3412-MW4R**	SM 4500-S2D	WET/31323		
92203023014	**3412-MW5R**	SM 4500-S2D	WET/31341		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OSR
Pace Project No.: 92203023

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92203023015	**3412-SW1**	SM 4500-S2D	WET/31341		
92203023016	**3412-SW2**	SM 4500-S2D	WET/31341		
92203023017	**3412-SW3**	SM 4500-S2D	WET/31341		
92203023018	**3412-SW4**	SM 4500-S2D	WET/31341		
92203023019	**3412-MW1R**	SM 4500-S2D	WET/31341		
92203023020	**3412-MW2R**	SM 4500-S2D	WET/31341		
92203023002	**3412-MW8**	EPA 300.0	WETA/19161		
92203023003	**3412-MW9**	EPA 300.0	WETA/19161		
92203023004	**3412-MW14**	EPA 300.0	WETA/19161		
92203023005	**3412-MW15**	EPA 300.0	WETA/19161		
92203023006	**3412-MW10**	EPA 300.0	WETA/19161		
92203023007	**3412-MW11**	EPA 300.0	WETA/19161		
92203023008	**3412-MW12**	EPA 300.0	WETA/19161		
92203023009	**3412-MW13**	EPA 300.0	WETA/19161		
92203023010	**3412-MW3R**	EPA 300.0	WETA/19161		
92203023011	**3412-MW7**	EPA 300.0	WETA/19161		
92203023012	**3412-MW4R**	EPA 300.0	WETA/19162		
92203023014	**3412-MW5R**	EPA 300.0	WETA/19211		
92203023015	**3412-SW1**	EPA 300.0	WETA/19211		
92203023016	**3412-SW2**	EPA 300.0	WETA/19211		
92203023017	**3412-SW3**	EPA 300.0	WETA/19232		
92203023018	**3412-SW4**	EPA 300.0	WETA/19232		
92203023019	**3412-MW1R**	EPA 300.0	WETA/19232		
92203023020	**3412-MW2R**	EPA 300.0	WETA/19232		
92203023002	**3412-MW8**	SM 4500-Cl-E	WETA/19242		
92203023003	**3412-MW9**	SM 4500-Cl-E	WETA/19242		
92203023004	**3412-MW14**	SM 4500-Cl-E	WETA/19242		
92203023005	**3412-MW15**	SM 4500-Cl-E	WETA/19242		
92203023006	**3412-MW10**	SM 4500-Cl-E	WETA/19242		
92203023007	**3412-MW11**	SM 4500-Cl-E	WETA/19242		
92203023008	**3412-MW12**	SM 4500-Cl-E	WETA/19260		
92203023009	**3412-MW13**	SM 4500-Cl-E	WETA/19260		
92203023010	**3412-MW3R**	SM 4500-Cl-E	WETA/19260		
92203023011	**3412-MW7**	SM 4500-Cl-E	WETA/19260		
92203023012	**3412-MW4R**	SM 4500-Cl-E	WETA/19260		
92203023014	**3412-MW5R**	SM 4500-Cl-E	WETA/19285		
92203023015	**3412-SW1**	SM 4500-Cl-E	WETA/19285		
92203023016	**3412-SW2**	SM 4500-Cl-E	WETA/19285		
92203023017	**3412-SW3**	SM 4500-Cl-E	WETA/19285		
92203023018	**3412-SW4**	SM 4500-Cl-E	WETA/19285		
92203023019	**3412-MW1R**	SM 4500-Cl-E	WETA/19285		
92203023020	**3412-MW2R**	SM 4500-Cl-E	WETA/19285		
92203023002	**3412-MW8**	SM 4500-CN-E	WETA/19167		
92203023003	**3412-MW9**	SM 4500-CN-E	WETA/19167		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OSR
Pace Project No.: 92203023

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92203023004	**3412-MW14**	SM 4500-CN-E	WETA/19243		
92203023005	**3412-MW15**	SM 4500-CN-E	WETA/19243		
92203023006	**3412-MW10**	SM 4500-CN-E	WETA/19243		
92203023007	**3412-MW11**	SM 4500-CN-E	WETA/19243		
92203023008	**3412-MW12**	SM 4500-CN-E	WETA/19243		
92203023009	**3412-MW13**	SM 4500-CN-E	WETA/19243		
92203023010	**3412-MW3R**	SM 4500-CN-E	WETA/19243		
92203023011	**3412-MW7**	SM 4500-CN-E	WETA/19243		
92203023012	**3412-MW4R**	SM 4500-CN-E	WETA/19243		
92203023014	**3412-MW5R**	SM 4500-CN-E	WETA/19243		
92203023015	**3412-SW1**	SM 4500-CN-E	WETA/19246		
92203023016	**3412-SW2**	SM 4500-CN-E	WETA/19246		
92203023017	**3412-SW3**	SM 4500-CN-E	WETA/19246		
92203023018	**3412-SW4**	SM 4500-CN-E	WETA/19246		
92203023019	**3412-MW1R**	SM 4500-CN-E	WETA/19246		
92203023020	**3412-MW2R**	SM 4500-CN-E	WETA/19246		

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Pace Analytical	Sample Condition Upon Receipt (SCUR)	Page 1 of 2
	Document Number: F-CHR-CS-003-rev.14	Issuing Authority: Pace Huntersville Quality Office

Client Name: HDR

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

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

Optional
Proj. Due Date:
Proj. Name:

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

Thermometer Used: IR Gun T1102 T1401 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

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

Corrected Cooler Temp.: 3.1 °C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: DS 5/28/14

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑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	
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:	JD	**Date:**	5/28/14
SRF Review:	JD	**Date:**	5/29/14

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

WO# : 92203023

92203023

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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

1806275

Section A Required Client Information:

Company: HDR
Address:
Email To:
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Eric Wright
Copy To:
Purchase Order No.:
Project Name: OSR
Project Number:

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: K. Godwin
Pace Profile #:

REGULATORY AGENCY

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

Site Location STATE: NC

Section D Required Client Information

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other NaOH/Zn Acet.	Analysis Test (Y/N): 8260 + THF	6010 / 7470	8270	8081	8151	Cyanide	Sulfide	Chloride / Alk	TDS	Sulfate	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	Equipment Blank	WT	—	—	—	5/27	1010		3				3					X											001
2	MW-8	WT	—	—	—	5/27	1300		9	3		1	3	1			1	X	X				X	X	X	X	X		002
3	MW-9	WT	—	—	—	5/27	1355		9	3		1	3	1			1	X	X				X	X	X	X	X		003
4	MW-14	WT	—	—	—	5/27	1500		9	3		1	3	1			1	X	X				X	X	X	X	X		004
5	MW-15	WT	—	—	—	5/27	1640		15	9		1	3	1			1	X	X	X	X	X	X	X	X	X	X		005
6																													
7																													
8																													
9																													
10																													
11																													
12																													

92203023

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	J. Qualtieri / PACE	5/27/14	1855	[signature] PACE	5/28/14	1000	3.1	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: J. Qualtieri
SIGNATURE of SAMPLER: J. Qualtieri
DATE Signed (MM/DD/YY): 5/27/14

*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.

Pace Analytical	Document Name: Sample Condition Upon Receipt (SCUR)	Page 1 of 2
	Document Number: F-CHR-CS-003-rev.14	Issuing Authority: Pace Huntersville Quality Office

Client Name: HDR

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

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

Optional
Proj. Due Date:
Proj. Name:

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

Thermometer Used: IR Gun T1102 T1401 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

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

Corrected Cooler Temp.: 1.3 °C **Biological Tissue is Frozen:** Yes No N/A

Date and Initials of person examining contents: CR 5/28/14

Temp should be above freezing to 6°C

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

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: JP **Date:** 5/29/14

SRF Review: JP **Date:** 5/29/14

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

Place label here

92203023

OR

Handwrite project number (if no label available)

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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

1806283

Section A Required Client Information:

Company:	HDR
Address:	
Email To:	
Phone:	Fax:
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	Eric Wright
Copy To:	
Purchase Order No.:	
Project Name:	OSR
Project Number:	

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	K. Godwin
Pace Profile #:	

REGULATORY AGENCY

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

Site Location STATE: NC

Section D Required Client Information

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other Zn Acet. / NaOH	Analysis Test (Y/N): 8260 + THF	6010 / 7470	8270	8081	8151	Cyanide	Sulfide	Chloride / Alk	TDS	Sulfate	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92203023
1	MW-10	WT	–	–	–	5/28	0900		9	3		1	3	1			1	X	X				X	X	X	X	X		006
2	MW-11	WT	–	–	–	5/28	1015		9	3		1	3	1			1	X	X				X	X	X	X	X		007
3	MW-12	WT	–	–	–	5/28	1110		9	3		1	3	1			1	X	X				X	X	X	X	X		008
4	MW-13	WT	–	–	–	5/28	1200		9	3		1	3	1			1	X	X				X	X	X	X	X		009
5	MW-3R	WT	–	–	–	5/28	1320		9	3		1	3	1			1	X	X				X	X	X	X	X		010
6	MW-7	WT	–	–	–	5/28	1415		9	3		1	3	1			1	X	X				X	X	X	X	X		011
7	MW-4R	WT	–	–	–	5/28	1535		15	9		1	3	1			1	X	X	X	X	X	X	X	X	X	X		012
8																													
9																													
10																													
11																													
12																													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	J Qualtieri / PACE	5/28/14	1755	[illegible] / PACE	5/28/14	1755	1.3	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: J. Qualtieri

SIGNATURE of SAMPLER: J Qualtieri

DATE Signed (MM/DD/YY): 5/28/14

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.

Pace Analytical	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: April 07. 2014 Page 1 of 2
	Document Number: **F-CHR-CS-003-rev.14**	Issuing Authority: Pace Huntersville Quality Office

Client Name: HDR

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

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

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

Thermometer Used: IR Gun T1102 T1401 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

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

Corrected Cooler Temp.: 5.1 °C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Optional
Proj. Due Date:
Proj. Name:

Date and Initials of person examining contents: 5/29/14

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑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	
Samples checked for dechlorination:	☑Yes ☐No ☐N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☑Yes ☐No ☐N/A	16. no date/time on bottles
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:** 5/29/14

SRF Review: [signature] **Date:** 5/30/14

Place label here

92203023

OR

Handwrite project number (if no label available)

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

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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

1806498

Section A Required Client Information:

Company:	HDR
Address:	
Email To:	
Phone:	Fax:
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	Eric Wright
Copy To:	
Purchase Order No.:	
Project Name:	OSR
Project Number:	

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	K. Godwin
Pace Profile #:	

REGULATORY AGENCY

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

Site Location STATE: NC

Section D Required Client Information

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other En Acetate/NaOH	Analysis Test Y/N	8260+THF	6010/7470	Cyanide	Sulfate	TDS	Sulfate	Chloride & Alk	8081	8270	8151	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92203023
1	TRIP Blank	WT	–	–	–	5/27	–	–	2				2						X											013
2	MW-5R	WT	–	–	–	5/29	0855	–	9	3		1	3	1			1		X	X	X	X	X	X	X					014
3	MW-1R	WT	–	–	–	5/29	1005	–	15	9		1	3	1			1		X	X	X	X	X	X	X	X	X	X		019
4	MW-2R	WT	–	–	–	5/29	1445	–	15	9		1	3	1			1		X	X	X	X	X	X	X	X	X	X		020
5	SW-1	WT	–	–	–	5/29	1345		9	3		1	3	1			1		X	X	X	X	X	X	X					015
6	SW-2	WT	–	–	–	5/29	1240		9	3		1	3	1			1		X	X	X	X	X	X	X					016
7	SW-3	WT	–	–	–	5/29	1200		9	3		1	3	1			1		X	X	X	X	X	X	X					017
8	SW-4	WT	–	–	–	5/29	1305		9	3		1	3	1			1		X	X	X	X	X	X	X					018
9																														
10																														
11																														
12																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	J Qualtieri / PACE	5/29/14	1705	[illegible]	5/29/14	17:05	J. Syer / [illegible]

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: J. Qualtieri

SIGNATURE of SAMPLER: J Qualtieri

DATE Signed (MM/DD/YY): 5/29/2014

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 on any invoices not paid within 30 days.

C

Appendix C – Field Data Sheets

Winston-Salem, NC
Client: HDR

Project: OSR

05/27/2014
subject: Water Levels

Time (hrs.)	ID	Water Level (ft.)	Comments
10:13	mw-3r	18.93	
10:20	mw-7	37.07	
10:30	mw-4r	7.26	
10:41	mw-5r	10.11	
10:55	mw-1r	35.36	
11:12	mw-2r	7.08	
11:20	mw-15	38.50	
11:29	mw-13	8.95	
11:37	mw-12	4.92	
11:45	mw-11	4.36	
11:52	mw-10	11.35	
11:57	mw-14	51.81	
12:03	mw-9	52.72	
12:11	mw-8	13.41	

Client: HDR Project: OSR Subject: gas readings in following wells
Meter: gem 2000 Tech: JJQ Date: 5/27/2014
BP: 30.12 in. Start temperature 85F End temperature 85F

Time (hrs.)	well ID	% CH4	% CO2	% O2	% Balance
10:51	mw-1r	00.0	00.1	20.9	79.0
11:05	mm-1	00.0	4.0	16.9	79.1
11:10	mw-2r	00.0	00.1	20.3	79.6
11:27	mw-13	00.0	00.6	19.4	80.0
11:17	mw-15	00.0	00.6	19.8	79.6

Pace Analytical®

1	0.0400
1.5	0.0918
1.625	0.1080
2	0.1630
3	0.3670
4	0.6530
6	1.4680
8	2.6100

MW-1R

GROUNDWATER SAMPLING **FIELD DATA SHEET**

Client: HDR Location: Winston-Salem, NC Project Name/#: OSR
Name & Affiliation (Sampler(s): JJQ - PACE
Name & Affiliation (Inspector): N/A

Well Information

Well ID: MW-1R Well Locked: (yes) no
Well Diameter: 2" Construction: (PVC) Steel Stainless Steel
Total Well Depth: 60 ft. Multi. Factor*: 0.163 {*(Radius/12)² X 3.14 x 7.48}
Static Water Level: 35.42 ft. Casing Volume: 4.0 gallons
Height of Water Col.: 24.58 ft. Cal. 3 Volumes: 12.0 gallons

Purge Information

Date Purged: 05/29/14 Time Start: 09:28 Finish: 09:54 Purge Rate: 400 ml/s
Purging Method: QED (ded.) micropurge Total Volume Purged: 2.8 gallons

Sampling Information

Date Sample Collected: 05/29/14 Time Sample Collected: 10:05 (am) pm
Sampling Equipment Used: QED (ded) micropurge

Bottle Type	Preservation	Analysis Required
3-40mL VOA	HCl	8260+THF
1-250mL	HNO_3	6010/7470
2-250 / 1-500mL	NONE	Sulfate / Chloride & ALK / TDS
1-125mL / 1-125mL	NaOH / Zn acet. & NaOH	cyanide / sulfide
6-1liter Amber	NONE	8270 / 8081 / 8151

Field Measurements/Observations

Sample Temp. (°C): 18.4 Time: 10:05
Sample pH (s.u.): 5.6 Time: 10:05
Specific Cond. (uS): 137 Time: 10:05
ReDox (mV): 411 Time: 10:05
Odor: NONE
Turbidity (ntu): 3 Time: 10:05
Dis. Oxy. (mg/L): 5.3 Time: 10:05
Res. Cl (mg/L): — Time: —
Other: — Time: —
Appearance: clear
General Observations: MW-1R micropurge method Refill (20sec) Discharge (5sec)

Weather Conditions: 75°F WINDS 5 to 10mph partly cloudy

Sampler Signature: J Quinther Date: 05/29/14

Stabilization Test

Time Purged	pH (s.u.)	Spec. Cond. (uS)	Redox. (mV)	Turbidity (ntu)	Dissolved Oxy. (mg/L)	Temp. (°C)	Volume Removed ~~(gals.)~~ ml/200	Other
09:31	6.1	129	404	9	7.8	19.1	1200	—
09:34	5.7	133	413	8	6.8	18.5	2400	—
09:37	5.6	136	416	6	6.1	18.2	3600	—
09:40	5.6	136	416	4	5.8	18.3	4800	—
09:43	5.6	137	414	3	5.6	18.5	6000	—
09:46	5.6	137	413	2	5.6	18.8	7200	—
09:49	5.6	136	412	3	5.4	18.7	8400	—

Client: HDR
Location: Winston-Salem, NC
Project: OSR (5-29-14)
Well ID: MW-1R

Time purged	pH (su)	Spec. Cond.(uS)	Redox (mv)	Turb.(ntu)	Dis. Oxy.(mg/l)	Temp.(C)	Vol. (ml) Removed
09:51	5.6	137	412	3	5.4	18.5	9600
09:54	5.6	137	411	3	5.3	18.4	10800

Pace Analytical®

1	0.0408
1.5	0.0918
1.625	0.1080
2	0.1630
3	0.3670
4	0.6530
6	1.4680
8	2.6100

MW-2R

GROUNDWATER SAMPLING **FIELD DATA SHEET**

Client: HDR Location: Winston-Salem, NC Project Name/#: OSR
Name & Affiliation (Sampler(s): JJQ - PACE
Name & Affiliation (Inspector): N/A

Well Information

Well ID: MW-2R Well Locked: (yes) no
Well Diameter: 2" Construction: (PVC) Steel Stainless Steel
Total Well Depth: 21 ft. Multi. Factor*: 0.163 {*(Radius/12)² X 3.14 x 7.48}
Static Water Level: 7.16 ft. Casing Volume: 2.2 gallons
Height of Water Col.: 13.84 ft. Cal. 3 Volumes: 6.6 gallons

Purge Information

Date Purged: 05/29/14 Time Start: 11:21 Finish: 11:42 Purge Rate: 300ml/min
Purging Method: QED (ded) micropurge Total Volume Purged: 1.7 gallons

Sampling Information

Date Sample Collected: 05/29/14 Time Sample Collected: 14:45 am (pm)
Sampling Equipment Used: QED (ded) micropurge

Bottle Type	Preservation	Analysis Required
3-40ml VOA	HCl	8260+THF
1-250ml	HNO_3	6010/7474
2-250ml / 1-500mL	NONE	Sulfate / Chloride & Alk / TDS
1-125ml / 1-125mL	NAOH / Zn Acet + NAOH	Cyanide / sulfide
6-1-liter Amber	NONE	8270/8081/8151

Field Measurements/Observations

Sample Temp. (°C): 19.6 Time: 1445
Sample pH (s.u.): 5.8 Time: 1445
Specific Cond. (uS): 1040 Time: 1445
ReDox (mV): 243 Time: 1445
Odor: NONE

Turbidity (ntu): 11 Time: 14:45
Dis. Oxy. (mg/L): 4.8 Time: 14:45
Res. Cl (mg/L): — Time: —
Other: — Time: —
Appearance: clear

General Observations: MW-2R micropurge method Refill = 10 sec
Dis = 5 sec

Weather Conditions: 80F WINDS 5 to 10mph partly cloudy

Sampler Signature: J Quattrin Date: 05/29/14

Stabilization Test

Time Purged	pH (s.u.)	Spec. Cond. (uS)	Redox. (mV)	Turbidity (ntu)	Dissolved Oxy. (mg/L)	Temp. (°C)	Volume mls Removed ~~(gals.)~~	Other
11:24	6.0	1040	293	44	7.2	17.4	900	—
11:27	5.9	1050	271	30	6.0	17.2	1800	—
11:30	5.8	1050	258	19	5.6	17.6	2700	—
11:33	5.7	1030	253	14	5.2	18.5	3600	—
11:36	5.7	1040	250	12	5.0	19.0	4500	—
11:39	5.7	1040	247	11	5.0	19.2	5400	—
11:42	5.8	1040	244	11	4.8	19.5	6300	—

Pace Analytical®

MW-3R

1	0.0408
1.5	0.0918
1.625	0.1080
2	0.1630
3	0.3670
4	0.6530
6	1.4680
8	2.6100

GROUNDWATER SAMPLING **FIELD DATA SHEET**

Client: HDR Location: Winston-Salem, NC Project Name/#: OSR
Name & Affiliation (Sampler(s): JJG - PACE
Name & Affiliation (Inspector): N/A

Well Information

Well ID: MW-3R Well Locked: (yes) no
Well Diameter: 2" Construction: ~~PVC~~ Steel Stainless Steel
Total Well Depth: 27 ft. Multi. Factor*: 0.163 {*(Radius/12)² X 3.14 x 7.48}
Static Water Level: 18.93 ft. Casing Volume: 1.3 gallons
Height of Water Col.: 8.07 ft. Cal. 3 Volumes: 3.9 gallons

Purge Information

Date Purged: 05/28/14 Time Start: 12:37 Finish: 13:16 Purge Rate: 300 ml/min
Purging Method: QED (ded) micropurge Total Volume Purged: 3.1 gallons

Sampling Information

Date Sample Collected: 05/28/14 Time Sample Collected: 13:20 am (pm)
Sampling Equipment Used: QED (ded) micropurge

Bottle Type	Preservation	Analysis Required
3-40mL VOA	HCl	8260 + THP
1-250mL	HNO_3	6010 / 7470
1-250mL / 1-250mL / 1-500mL	NONE	sulfate / chloride Alk / TDS
1-125mL	NaOH	cyanide
1-125mL	Zn Acetate / NaOH	sulfide

Field Measurements/Observations

Sample Temp. (°C): 18.7 Time: 13:20
Sample pH (s.u.): 6.0 Time: 13:20
Specific Cond. (uS): 367 Time: 13:20
ReDox (mV): 146 Time: 13:20
Odor: NONE

Turbidity (ntu): 6 Time: 13:20
Dis. Oxy. (mg/L): 6.3 Time: 13:20
Res. Cl (mg/L): — Time: —
Other: — Time: —
Appearance: clear

General Observations: MW-3R micropurge method Refill = 20 sec Drs = 3 sec

Weather Conditions: 90F WINDS light & variable partly cloudy

Sampler Signature: J Weather Date: 05/28/14

Stabilization Test

Time Purged	pH (s.u.)	Spec. Cond. (uS)	Redox. (mV)	Turbidity (ntu)	Dissolved Oxy. (mg/L)	Temp. (°C)	Volume Removed ~~(gals.)~~ ml/min	Other
12:40	6.0	327	367	80	6.3	18.5	900	—
12:43	6.0	362	337	76	4.6	18.7	1800	—
12:46	6.0	375	294	80	6.5	18.3	2700	—
12:49	5.9	374	232	37	5.6	18.5	3600	—
12:52	5.9	369	217	38	5.6	18.4	4500	—
12:55	5.9	367	203	30	5.4	18.5	5400	—
12:58	5.9	365	191	23	5.2	18.6	6300	—

Client: HDR

Location: Winston - Salem NC

Project: OSR (5-28-14)

Well ID: MW-3R

Time purged	pH (su)	Spec. Cond.(uS)	Redox (mv)	Turb.(ntu)	Dis. Oxy.(mg/l)	Temp.(C)	Vol. (ml) Removed
13:01	6.0	365	177	23	5.0	18.5	7200
13:04	6.0	365	172	15	5.0	18.7	8100
13:07	6.0	365	162	15	4.0	18.6	9000
13:10	6.0	366	155	6	6.7	18.5	9900
13:13	6.0	365	150	6	6.5	18.6	10800
13:16	6.0	368	145	6	6.4	18.6	11700

Pace Analytical®

1	0.0408
1.5	0.0918
1.625	0.1080
2	0.1630
3	0.3670
4	0.6530
6	1.4680
8	2.6100

mw-4R

GROUNDWATER SAMPLING **FIELD DATA SHEET**

Client: HDR Location: Winston-Salem NC Project Name/#: OSR
Name & Affiliation (Sampler(s): JJB - PACE
Name & Affiliation (Inspector): N/A

Well Information

Well ID: mw-4R Well Locked: (yes) no
Well Diameter: 2" Construction: (PVC) Steel Stainless Steel
Total Well Depth: 20 ft. Multi. Factor*: 0.163 {*(Radius/12)² X 3.14 x 7.48}
Static Water Level: 7.21 ft. Casing Volume: 2.1 gallons
Height of Water Col.: 12.79 ft. Cal. 3 Volumes: 6.3 gallons

Purge Information

Date Purged: 05/28/14 Time Start: 14:45 Finish: 15:15 Purge Rate: 400 ml/min
Purging Method: QED (ded) Micropurge Total Volume Purged: 3.2 gallons

Sampling Information

Date Sample Collected: 05/28/14 Time Sample Collected: 15:35 am (pm)
Sampling Equipment Used: QED (ded) micropurge

Bottle Type	Preservation	Analysis Required
3-40mL VOA	HCl	8260 + THF
1-250mL	HNO_3	6010 / 7470
2-250mL / 1-500mL	NONE	sulfate / chloride & ALK / TDS
1-125mL / 1-125mL	NaOH / Zn Acet. & NaOH	cyanide / sulfide
6-Liter Amber	NONE	8270 / 8081 / 8151

Field Measurements/Observations

Sample Temp. (°C): 14.8 Time: 15:35
Sample pH (s.u.): 5.7 Time: 15:35
Specific Cond. (uS): 715 Time: 15:35
ReDox (mV): 374 Time: 15:35
Odor: NONE

Turbidity (ntu): 17 Time: 15:35
Dis. Oxy. (mg/L): 6.2 Time: 15:35
Res. Cl (mg/L): — Time: —
Other: — Time: —
Appearance: clear

General Observations: mw-4R micropurge method Refill = 10 sec Drg = 2.5 sec

Weather Conditions: 90F winds light & variable partly cloudy

Sampler Signature: J Walther Date: 05/28/14

Stabilization Test

Time Purged	pH (s.u.)	Spec. Cond. (uS)	Redox. (mV)	Turbidity (ntu)	Dissolved Oxy. (mg/L)	Temp. (°C)	Volume Removed ~~(gals.)~~ mls	Other ORP
14:48	6.3	520	371	90	7.9	15.8	1200	—
14:51	5.9	443	380	132	8.5	15.0	2400	—
14:54	5.7	534	386	63	7.8	14.7	3600	—
14:57	5.6	594	391	44	7.6	14.7	4800	—
15:00	5.6	614	391	30	6.9	14.9	6000	—
15:03	5.6	630	388	25	7.2	14.8	7200	—
15:06	5.6	667	383	21	6.3	14.5	8400	—

Client: HDR / OSR

Location: Winston, Salem - NC

Project: OSR (5-28-14)

Well ID: MW-4R

Time purged	pH (su)	Spec. Cond.(uS)	Redox (mv)	Turb.(ntu)	Dis. Oxy.(mg/l)	Temp.(C)	Vol. (ml) Removed
15:09	5.7	707	376	17	6.3	14.7	9600
15:12	5.6	710	379	17	6.3	14.8	10800
15:15	5.7	712	376	17	6.3	14.9	12000

Pace Analytical®

1	0.0408
1.5	0.0918
1.625	0.1080
2	0.1630
3	0.3670
4	0.6530
6	1.4680
8	2.6100

MW-5R

GROUNDWATER SAMPLING **FIELD DATA SHEET**

Client: HDR Location: Winston-Salem, NC Project Name/#: OSR
Name & Affiliation (Sampler(s): JJQ - PACE
Name & Affiliation (Inspector): N/A

Well Information

Well ID: MW-5R Well Locked: (yes) no
Well Diameter: 2" Construction: (PVC) Steel Stainless Steel
Total Well Depth: 30 ft. Multi. Factor*: 0.163 {*(Radius/12)² X 3.14 x 7.48}
Static Water Level: 10.11 ft. Casing Volume: 3.2 gallons
Height of Water Col.: 19.89 ft. Cal. 3 Volumes: 9.6 gallons

Purge Information

Date Purged: 05/29/14 Time Start: 08:21 Finish: 08:42 Purge Rate: 400 ml/min
Purging Method: QED (ded) micropurge Total Volume Purged: 1.9 gallons

Sampling Information

Date Sample Collected: 05/29/14 Time Sample Collected: 08:55 (am) pm
Sampling Equipment Used: QED (ded) micropurge

Bottle Type	Preservation	Analysis Required
3-40ml VOA	HCl	8260 + THF
1-250mL	HNO3	6010 / 7470
2-250ml / 1-500mL	NONE	Sulfate / Chloride / Alk / TDS
1-125mL	NAOH	Cyanide
1-125ml	Zn acetate / NAOH	sulfide

Field Measurements/Observations

Sample Temp. (°C): 14.7 Time: 08:55 Turbidity (ntu): 10 Time: 08:55
Sample pH (s.u.): 5.7 Time: 08:55 Dis. Oxy. (mg/L): 8.6 Time: 08:55
Specific Cond. (uS): 194 Time: 08:55 Res. Cl (mg/L): — Time: —
ReDox (mV): 389 Time: 08:55 Other: — Time: —
Odor: NONE Appearance: clear
General Observations: MW-5R micropurge method Refill = 10sec Discharge = 5sec
Weather Conditions: 75°F WINDS 5 to 10mph partly cloudy

Sampler Signature: J Quatthen Date: 05/29/14

Stabilization Test

Time Purged	pH (s.u.)	Spec. Cond. (uS)	Redox. (mV)	Turbidity (ntu)	Dissolved Oxy. (mg/L)	Temp. (°C)	Volume mls Removed ~~(gals.)~~	Other
08:24	5.9	207	352	16	8.1	15.3	1200	—
08:27	5.8	202	357	13	8.9	15.1	2400	—
08:30	5.6	198	374	11	8.6	14.9	3600	—
08:33	5.6	197	384	10	7.2	14.8	4800	—
08:36	5.6	195	387	10	8.4	14.7	6000	—
08:39	5.7	194	389	10	8.0	14.6	6600	—
08:42	5.7	194	389	10	8.7	14.6	7200	—

Pace Analytical®

1	0.0408
1.5	0.0918
1.625	0.1080
2	0.1630
3	0.3670
4	0.6530
6	1.4680
8	2.6100

mw-7

GROUNDWATER SAMPLING **FIELD DATA SHEET**

Client: HDR Location: WINSTON-SALEM NC Project Name/#: OSR
Name & Affiliation (Sampler(s): JJQ PACE
Name & Affiliation (Inspector): N/A

Well Information
Well ID: MW-7 Well Locked: yes no
Well Diameter: 2" Construction: PVC Steel Stainless Steel
Total Well Depth: 48.0 ft. Multi. Factor*: 0.163 {*(Radius/12)² X 3.14 x 7.48}
Static Water Level: 37.05 ft. Casing Volume: 1.8 gallons
Height of Water Col.: 10.95 ft. Cal. 3 Volumes: 5.4 gallons

Purge Information
Date Purged: 05/28/14 Time Start: 13:47 Finish: 14:11 Purge Rate: 200ml/min
Purging Method: QED (ded) micropurge Total Volume Purged: 1.3 gallons

Sampling Information
Date Sample Collected: 05/28/14 Time Sample Collected: 14:15 am pm
Sampling Equipment Used: QED (ded) micropurge

Bottle Type	Preservation	Analysis Required
3-40ml VOA	HCl	8260 + TAF
1-250ml	HNO3	6010 / 7470
2-250ml / 1-500ml	NONE	Sulfate / chloride Alk / TDS
1-125ml	NAOH	cyanide
1-125ml	Zn Acetate / NAOH	sulfide

Field Measurements/Observations
Sample Temp. (°C): 17.2 Time: 14:15
Sample pH (s.u.): 5.3 Time: 14:15
Specific Cond. (uS): 171 Time: 14:15
ReDox (mV): 363 Time: 14:15
Odor: NONE
Turbidity (ntu): 6 Time: 14:15
Dis. Oxy. (mg/L): 3.8 Time: 14:15
Res. Cl (mg/L): — Time: —
Other: — Time: —
Appearance: clear
General Observations: mw-7 micropurge method Refill = 10sec DIS = 5sec
Weather Conditions: 90F WINDS Light & variable partly cloudy
Sampler Signature: JQualter Date: 05/28/14

Stabilization Test

Time Purged	pH (s.u.)	Spec. Cond. (uS)	Redox. (mV)	Turbidity (ntu)	Dissolved Oxy. (mg/L)	Temp. (°C)	Volume Removed ml/s (gals.)	Other
13:50	5.8	180	323	39	6.7	18.5	600	—
13:53	5.6	175	328	26	5.0	18.1	1200	—
13:56	5.5	171	338	13	5.5	17.9	1800	—
13:59	5.4	170	344	8	3.9	17.6	2400	—
14:02	5.3	169	351	6	4.3	17.5	3000	—
14:05	5.3	171	357	6	3.9	17.4	3600	—
14:08	5.3	172	361	6	3.8	17.3	4200	—

Client: HDR / OSR

Location: Winston-Salem, NC

Project: OSR (5-28-14)

Well ID: MW-7

Time purged	pH (su)	Spec. Cond.(uS)	Redox (mv)	Turb.(ntu)	Dis. Oxy.(mg/l)	Temp.(C)	Vol. (ml) Removed
14:11	5.3	171	362	6	4.0	17.4	4800

Pace Analytical®

1	0.0408
1.5	0.0918
1.625	0.1080
2	0.1630
3	0.3670
4	0.6530
6	1.4680
8	2.6100

MW-8

GROUNDWATER SAMPLING **FIELD DATA SHEET**

Client: HDR Location: Winston-Salem, NC Project Name/#: OSR
Name & Affiliation (Sampler(s)): JJO - PACE
Name & Affiliation (Inspector): N/A

Well Information

Well ID: MW-8 Well Locked: (yes) no
Well Diameter: 2" Construction: (PVC) Steel Stainless Steel
Total Well Depth: 27 ft. Multi. Factor*: 0.163 {*(Radius/12)² X 3.14 x 7.48}
Static Water Level: 13.41 ft. Casing Volume: 2.2 gallons
Height of Water Col.: 13.59 ft. Cal. 3 Volumes: 6.6 gallons

Purge Information

Date Purged: 05/27/14 Time Start: 12:40 Finish: 12:55 Purge Rate: 400ml/min
Purging Method: micropurge by QED dedicated Total Volume Purged: 1.6 gallons

Sampling Information

Date Sample Collected: 05/27/14 Time Sample Collected: 1300 am (pm)
Sampling Equipment Used: ded. micropurge by QED

Bottle Type	Preservation	Analysis Required
3-40mL VOA	HCl	8260 + THP
1-250mL	HNO3	6010/7470
2-250mL / 1-500mL	NONE	sulfate/chloride & Alk/TDS
1-125mL	Zn Acetate / NAOH	Sulfide
1-125mL	NAOH	cyanide

Field Measurements/Observations

Sample Temp. (°C): 16.0 Time: 13:00
Sample pH (s.u.): 5.0 Time: 13:00
Specific Cond. (uS): 64 Time: 13:00
ReDox (mV): 389 Time: 13:00
Odor: NONE

Turbidity (ntu): 8 Time: 13:00
Dis. Oxy. (mg/L): 8.4 Time: 13:00
Res. Cl (mg/L): — Time: —
Other: — Time: —
Appearance: clear

General Observations: MW-8 micropurge method Refill = 10 sec Discharge = 5 sec

Weather Conditions: 80°F WIND 5 to 10 mph partly cloudy

Sampler Signature: J Walton Date: 05/27/14

Stabilization Test

Time Purged	pH (s.u.)	Spec. Cond. (uS)	Redox. (mV)	Turbidity (ntu)	Dissolved Oxy. (mg/L)	Temp. (°C)	Volume Removed ~~(gals.)~~ mls	Other
12:43	5.4	71	351	14	8.5	17.5	1200	—
12:46	5.3	65	360	10	8.6	16.3	2400	—
12:49	5.0	64	382	8	8.0	16.4	3600	—
12:52	5.0	64	387	8	8.1	16.3	4800	—
12:55	5.0	64	389	8	8.4	16.0	6000	—

Pace Analytical®

mw-9

1	0.0408
1.5	0.0918
1.625	0.1080
2	0.1630
3	0.3670
4	0.6530
6	1.4680
8	2.6100

GROUNDWATER SAMPLING **FIELD DATA SHEET**

Client: HDR Location: Winston-Salem, NC Project Name/#: OSR
Name & Affiliation (Sampler(s)): JJQ - PACE
Name & Affiliation (Inspector): N/A

Well Information

Well ID: mw-9 Well Locked: (yes) no
Well Diameter: 2" Construction: (PVC) Steel Stainless Steel
Total Well Depth: 60 ft. Multi. Factor*: 0.163 {*(Radius/12)² X 3.14 x 7.48}
Static Water Level: 52.72 ft. Casing Volume: 1.2 gallons
Height of Water Col.: 7.28 ft. Cal. 3 Volumes: 3.6 gallons

Purge Information

Date Purged: 05/27/14 Time Start: 13:30 Finish: 13:48 Purge Rate: 300ml/min
Purging Method: ded. micropurge by QED Total Volume Purged: 1.4 gallons

Sampling Information

Date Sample Collected: 05/27/14 Time Sample Collected: 13:55 am (pm)
Sampling Equipment Used: ded micropurge by QED

Bottle Type	Preservation	Analysis Required
3-40mL VOA	HCL	8260 + THF
1-250mL	HNO_3	6010 / 7470
2-250mL / 1-500mL	NONE	sulfate / chloride Alk / TDS
1-125mL	~~Zinc~~ Acetate / NAOH	sulfide
1-125mL	NAOH	cyanide

Field Measurements/Observations

Sample Temp. (°C): 17.7 Time: 13:55 Turbidity (ntu): 5 Time: 13:55
Sample pH (s.u.): 5.2 Time: 13:55 Dis. Oxy. (mg/L): 8.7 Time: 13:55
Specific Cond. (uS): 155 Time: 13:55 Res. Cl (mg/L): - Time: -
ReDox (mV): 436 Time: 13:55 Other: - Time: -
Odor: NONE Appearance: clear
General Observations: mw-9 micropurge method Refill = 10sec Discharge = 9sec
Weather Conditions: 85°F WINDS 5 to 15mph overcast
Sampler Signature: [signature] Date: 05/27/14

Stabilization Test

Time Purged	pH (s.u.)	Spec. Cond. (uS)	Redox. (mV)	Turbidity (ntu)	Dissolved Oxy. (mg/L)	Temp. (°C)	Volume Removed ~~(gals.)~~ mls	Other
13:33	5.4	157	419	22	9.2	16.8	900	—
13:36	5.3	155	421	13	8.2	17.2	1800	—
13:39	5.2	155	428	7	8.0	17.6	2700	—
13:42	5.2	156	431	5	8.2	17.7	3600	—
13:45	5.2	157	435	5	8.8	17.7	4500	—
13:48	5.2	155	436	5	8.8	17.7	5400	—

Pace Analytical®

MW-10

1	0.0408
1.5	0.0918
1.625	0.1080
2	0.1630
3	0.3670
4	0.6530
6	1.4680
8	2.6100

GROUNDWATER SAMPLING **FIELD DATA SHEET**

Client: HDR Location: Winston-Salem, NC Project Name/#: OSR
Name & Affiliation (Sampler(s): JJO - PACE
Name & Affiliation (Inspector): N/A

Well Information

Well ID: MW-10 Well Locked: (yes) no
Well Diameter: 2" Construction: (PVC) Steel Stainless Steel
Total Well Depth: 21.0 ft. Multi. Factor*: 0.163 {*(Radius/12)² X 3.14 x 7.48}
Static Water Level: 11.34 ft. Casing Volume: 1.6 gallons
Height of Water Col.: 9.66 ft. Cal. 3 Volumes: 4.8 gallons

Purge Information

Date Purged: 05/28/14 Time Start: 08:34 Finish: 08:49 Purge Rate: 300 ml/min
Purging Method: QED (dedi) micropurge Total Volume Purged: 1.2 gallons

Sampling Information

Date Sample Collected: 05/28/14 Time Sample Collected: 09:00 (am) pm
Sampling Equipment Used: QED (dedi) micropurge

Bottle Type	Preservation	Analysis Required
3-40ml VOA	HCl	8260 + THF
1-250ml	HNO3	6010 / 7470
2-250ml / 1500ml	NONE	sulfate / chloride Alk / TDS
	NaOH	cyanide
	Zn Acetate / NaOH	sulfide

Field Measurements/Observations

Sample Temp. (°C): 15.0 Time: 09:00
Sample pH (s.u.): 5.0 Time: 09:00
Specific Cond. (uS): 86 Time: 09:00
ReDox (mV): 436 Time: 09:00
Odor: NONE
Turbidity (ntu): 4 Time: 09:00
Dis. Oxy. (mg/L): 8.3 Time: 09:00
Res. Cl (mg/L): — Time: —
Other: — Time: —
Appearance: clear
General Observations: MW-10 micropurge method Refill = 10sec Dis = 3sec
Weather Conditions: 75F winds light & variable partly cloudy

Sampler Signature: J Walker Date: 05/28/14

Stabilization Test

Time Purged	pH (s.u.)	Spec. Cond. (uS)	Redox. (mV)	Turbidity (ntu)	Dissolved Oxy. (mg/L)	Temp. (°C)	Volume Removed ~~(gals.)~~ mL	Other
08:37	5.2	86	414	8	9.3	15.0	900	—
08:40	5.1	87	419	6	9.0	15.0	1800	—
08:43	5.0	86	428	4	8.7	15.0	2700	—
08:46	5.0	86	436	4	8.4	15.0	3600	—
08:49	5.0	86	436	4	8.3	15.0	4500	—

Pace Analytical®

1	0.0408
1.5	0.0918
1.625	0.1080
2	0.1630
3	0.3670
4	0.6530
6	1.4680
8	2.6100

MW-11

GROUNDWATER SAMPLING **FIELD DATA SHEET**

Client: HDR Location: Winston Salem NC Project Name/#: OSR
Name & Affiliation (Sampler(s): JJQ - PACE
Name & Affiliation (Inspector): N/A

Well Information

Well ID: MW-11 Well Locked: (yes) no
Well Diameter: 2" Construction: (PVC) Steel Stainless Steel
Total Well Depth: 20.0 ft. Multi. Factor*: 0.163 {*(Radius/12)² X 3.14 x 7.48}
Static Water Level: 4.19 ft. Casing Volume: 2.6 gallons
Height of Water Col.: 15.81 ft. Cal. 3 Volumes: 7.8 gallons

Purge Information

Date Purged: 05/28/14 Time Start: 09:25 Finish: 10:07 Purge Rate: 200ml/min
Purging Method: QED (ded) micropurge Total Volume Purged: 2.2 gallons

Sampling Information

Date Sample Collected: 05/28/14 Time Sample Collected: 10:15 (am) pm
Sampling Equipment Used: QED (ded.) micropurge

Bottle Type	Preservation	Analysis Required
3-40mL VOA	HCl	8260 + THF
1-250ml	HNO_3	6010 / 7470
2-250ml / 1-500mL	NONE	Sulfate / chloride & Alk / TDS
1-125mL	NAOH	cyanide
1-125ml	Zn Acetate & NAOH	sulfide

Field Measurements/Observations

Sample Temp. (°C): 14.4 Time: 10:15 Turbidity (ntu): 22 Time: 10:15
Sample pH (s.u.): 6.0 Time: 10:15 Dis. Oxy. (mg/L): 7.5 Time: 10:15
Specific Cond. (uS): 430 Time: 10:15 Res. Cl (mg/L): — Time: —
ReDox (mV): 27 Time: 10:15 Other: — Time: —
Odor: NONE Appearance: Clear
General Observations: MW-11 micropurge method Refill = 10sec Dis = 3sec
Weather Conditions: 80F WINDS light & Variable partly cloudy
Sampler Signature: J Quattrin Date: 05/28/14

Stabilization Test

Time Purged	pH (s.u.)	Spec. Cond. (uS)	Redox. (mV)	Turbidity (ntu)	Dissolved Oxy. (mg/L)	Temp. (°C)	Volume Removed ~~(gals)~~ mls	Other
09:28	6.0	427	253	175	9.0	15.0	600	—
09:31	6.0	436	197	994	8.0	15.0	1200	—
09:34	6.0	430	167	491	7.6	14.8	1800	—
09:37	6.0	431	147	387	7.3	14.8	2400	—
09:40	6.0	431	121	314	6.2	14.4	3000	—
09:43	6.0	432	100	231	6.5	14.4	3600	—
09:46	6.0	433	79	86	7.4	14.4	4200	—

Client: HDR
Location: Winston - Salem, NC
Project: OSR (5-28-14)
Well ID: MW-11

Time purged	pH (su)	Spec. Cond.(uS)	Redox (mv)	Turb.(ntu)	Dis. Oxy.(mg/l)	Temp.(C)	Vol. (ml) Removed
09:49	6.0	433	67	51	7.6	14.5	4800
09:52	6.0	432	58	38	7.7	14.4	5400
09:55	6.0	433	49	28	8.0	14.4	6000
09:58	6.0	430	38	26	7.7	14.4	6600
10:01	6.0	430	33	22	7.8	14.5	7200
10:04	6.0	430	29	21	7.9	14.5	7800
10:07	6.0	430	30	22	7.8	14.5	8400

Pace Analytical

1	0.0408
1.5	0.0918
1.625	0.1080
2	0.1630
3	0.3670
4	0.6530
6	1.4680
8	2.6100

MW-12

GROUNDWATER SAMPLING **FIELD DATA SHEET**

Client: HDR Location: Winston-Salem, NC Project Name/#: OSR
Name & Affiliation (Sampler(s): JJQ - PACE
Name & Affiliation (Inspector): N/A

Well Information

Well ID: MW-12 Well Locked: (yes) no
Well Diameter: 2" Construction: (PVC) Steel Stainless Steel
Total Well Depth: 15.58 ft. Multi. Factor*: 0.163 {*(Radius/12)² X 3.14 x 7.48}
Static Water Level: 4.85 ft. Casing Volume: 1.7 gallons
Height of Water Col.: 10.73 ft. Cal. 3 Volumes: 5.1 gallons

Purge Information

Date Purged: 05/28/14 Time Start: 10:35 Finish: 10:59 Purge Rate: 400ml/min
Purging Method: QED (ded) micropurge Total Volume Purged: 2.5 gallons

Sampling Information

Date Sample Collected: 05/28/14 Time Sample Collected: 11:10 (am) pm
Sampling Equipment Used: QED (ded) micropurge

Bottle Type	Preservation	Analysis Required
3-40mL VOA	HCL	8260 + THF
1-250mL	HNO_3	6010/7470
2-250ml / 1-500mL	NONE	Sulfate / Chloride Alk / TDS
1-125mL	NAOH	cyanide
1-125mL		sulfide

Field Measurements/Observations

Sample Temp. (°C): 15.0 Time: 11:10 Turbidity (ntu): 15 Time: 11:10
Sample pH (s.u.): 5.9 Time: 11:10 Dis. Oxy. (mg/L): 8.4 Time: 11:10
Specific Cond. (uS): 243 Time: 11:10 Res. Cl (mg/L): — Time: —
ReDox (mV): 315 Time: 11:10 Other: — Time: —
Odor: NONE Appearance: clear
General Observations: MW-12 micropurge method Refill = 10sec Dis = 5sec
Weather Conditions: 85F winds light & variable partly cloudy
Sampler Signature: J Qualtrin Date: 05/28/14

Stabilization Test

Time Purged	pH (s.u.)	Spec. Cond. (uS)	Redox. (mV)	Turbidity (ntu)	Dissolved Oxy. (mg/L)	Temp. (°C)	Volume Removed (~~gals.~~ mls)	Other
10:38	6.0	247	296	20	9.4	14.8	1200	—
10:41	5.9	247	296	22	5.9	14.8	2400	—
10:44	5.9	247	300	76	8.8	14.8	3600	—
10:47	5.9	246	303	41	8.6	15.2	4800	—
10:50	5.9	245	306	29	9.0	15.0	6000	—
10:53	5.9	245	309	15	9.0	14.8	7200	—
10:56	5.9	243	311	15	8.8	14.8	8400	—

Client: HDR

Location: Winston-Salem, NC

Project: OSR (5-28-14)

Well ID: MW-12

Time purged	pH (su)	Spec. Cond.(uS)	Redox (mv)	Turb.(ntu)	Dis. Oxy.(mg/l)	Temp.(C)	Vol. (ml) Removed
10:59	5.9	243	313	15	8.6	14.9	9600

Pace Analytical®

1	0.0408
1.5	0.0918
1.625	0.1080
2	0.1630
3	0.3670
4	0.6530
6	1.4680
8	2.6100

MW-13

GROUNDWATER SAMPLING **FIELD DATA SHEET**

Client: HDR Location: Winston-Salem, NC Project Name/#: OSR
Name & Affiliation (Sampler(s): JJQ - PACE
Name & Affiliation (Inspector): N/A

Well Information

Well ID: MW-13 Well Locked: (yes) no
Well Diameter: 2" Construction: (PVC) Steel Stainless Steel
Total Well Depth: 20 ft. Multi. Factor*: 0.163 {*(Radius/12)² X 3.14 x 7.48}
Static Water Level: 8.96 ft. Casing Volume: 1.8 gallons
Height of Water Col.: 11.04 ft. Cal. 3 Volumes: 5.4 gallons

Purge Information

Date Purged: 05/28/14 Time Start: 11:31 Finish: 11:46 Purge Rate: 200ml/min
Purging Method: QED (ded) micropurge Total Volume Purged: 0.8 gallons

Sampling Information

Date Sample Collected: 05/28/14 Time Sample Collected: 1200 am (pm)
Sampling Equipment Used: QED (ded) micropurge

Bottle Type	Preservation	Analysis Required
3-40mL VOA	HCL	8260 + THF
1-250mL	HNO_3	6010/7470
2-250mL/1-500mL	NONE	sulfate/chloride & Alk/TDS
1-125mL	NAOH	cyanide
1-125mL	Zn acetate/NAOH	sulfide

Field Measurements/Observations

Sample Temp. (°C): 16.6 Time: 12:00
Sample pH (s.u.): 5.6 Time: 12:00
Specific Cond. (uS): 149 Time: 12:00
ReDox (mV): 367 Time: 12:00
Odor: NONE
Turbidity (ntu): 147 Time: 12:00
Dis. Oxy. (mg/L): 6.8 Time: 12:00
Res. Cl (mg/L): — Time: —
Other: — Time: —
Appearance: murky
General Observations: MW-13 micropurge method Refill = 10sec 0.3 = 2.5 sec
Weather Conditions: 85F WINDS light & variable partly cloudy
Sampler Signature: J Quattrini Date: 05/28/14

Stabilization Test

Time Purged	pH (s.u.)	Spec. Cond. (uS)	Redox. (mV)	Turbidity (ntu)	Dissolved Oxy. (mg/L)	Temp. (°C)	Volume Removed ml/s ~~(gals.)~~	Other ~~mV~~
11:34	5.8	144	398	98	7.8	17.1	600	—
11:37	5.7	149	368	134	7.8	16.4	1200	—
11:40	5.6	149	368	150	7.5	16.3	1800	—
11:43	5.6	149	368	153	7.2	16.4	2400	—
11:46	5.6	149	367	149	6.9	16.6	3000	—

Pace Analytical®

1	0.0408
1.5	0.0918
1.625	0.1080
2	0.1630
3	0.3670
4	0.6530
6	1.4680
8	2.6100

MW-14

GROUNDWATER SAMPLING **FIELD DATA SHEET**

Client: HDR Location: Winston-Salem, NC Project Name/#: OSR
Name & Affiliation (Sampler(s)): JJQ - PACE
Name & Affiliation (Inspector): N/A

Well Information

Well ID: MW-14 Well Locked: (yes) no
Well Diameter: 2" Construction: (PVC) Steel Stainless Steel
Total Well Depth: 60 ft. Multi. Factor*: 0.163 {*(Radius/12)² X 3.14 x 7.48}
Static Water Level: 51.80 ft. Casing Volume: 1.3 gallons
Height of Water Col.: 8.20 ft. Cal. 3 Volumes: 3.9 gallons

Purge Information

Date Purged: 05/27/14 Time Start: 14:17 Finish: 14:50 Purge Rate: 200ml/min
Purging Method: ded micropurge by QED Total Volume Purged: 1.7 gallons

Sampling Information

Date Sample Collected: 05/27/14 Time Sample Collected: 1500 am (pm)
Sampling Equipment Used: ded. micropurge by QED

Bottle Type	Preservation	Analysis Required
3-40mL VOA	HCL	8260 + THF
1-250mL	HNO3	6010 / 7470
2-250ml / 1-500 mL	NONE	sulfate / chloride / Alk / TDS
1-125mL	Zn Acetate / NAOH	sulfide
1-125mL	NAOH	cyanide

Field Measurements/Observations

Sample Temp. (°C): 17.7 Time: 1500
Sample pH (s.u.): 5.5 Time: 1500
Specific Cond. (uS): 156 Time: 1500
ReDox (mV): 437 Time: 1500
Odor: NONE
Turbidity (ntu): 118 Time: 1500
Dis. Oxy. (mg/L): 8.1 Time: 1500
Res. Cl (mg/L): — Time: —
Other: — Time: —
Appearance: murky
General Observations: MW-14 micropurge method Refill = 10sec DIS = 2 sec
Weather Conditions: 80°F WIND 5 to 15 showers

Sampler Signature: [signature] Date: 05/27/14

Stabilization Test

Time Purged	pH (s.u.)	Spec. Cond. (uS)	Redox. (mV)	Turbidity (ntu)	Dissolved Oxy. (mg/L)	Temp. (°C)	Volume Removed ~~(gals)~~ mls	Other
14:20	5.5	149	433	70	8.1	17.8	600	—
14:23	5.5	151	434	60	7.8	18.0	1200	—
14:26	5.4	154	437	38	8.9	18.2	1800	—
14:29	5.4	154	438	32	9.1	18.1	2400	—
14:32	5.4	155	437	32	8.9	18.1	3000	—
14:35	5.4	155	436	58	8.8	17.9	3600	—
14:38	5.5	156	437	74	8.8	17.8	4200	—

Client: HDR / OSR

Location: Winston-Salem NC

Project: OSR (5/27/14)

Well ID: MW-14

Time purged	pH (su)	Spec. Cond.(uS)	Redox (mv)	Turb.(ntu)	Dis. Oxy.(mg/l)	Temp.(C)	Vol. (ml) Removed
14:41	5.5	156	437	86	8.6	17.8	4800
14:44	5.4	156	437	110	8.4	17.7	5400
14:47	5.5	156	437	118	8.2	17.6	6000
14:50	5.5	156	436	115	8.1	17.6	6600

Pace Analytical®

MW-15

1	0.0408
1.5	0.0918
1.625	0.1080
2	0.1630
3	0.3670
4	0.6530
6	1.4680
8	2.6100

GROUNDWATER SAMPLING **FIELD DATA SHEET**

Client: HDR Location: Winston-Salem, NC Project Name/#: OSR
Name & Affiliation (Sampler(s): JJQ - PACE
Name & Affiliation (Inspector): N/A

Well Information

Well ID: MW-15 Well Locked: (yes) no
Well Diameter: 2" Construction: (PVC) Steel Stainless Steel
Total Well Depth: 50.85 ft. Multi. Factor*: 0.163 {*(Radius/12)² X 3.14 x 7.48}
Static Water Level: 38.45 ft. Casing Volume: 2.0 gallons
Height of Water Col.: 12.40 ft. Cal. 3 Volumes: 6.0 gallons

Purge Information

Date Purged: 05/27/14 Time Start: 15:34 Finish: 16:00 Purge Rate: N/A
Purging Method: bailer Total Volume Purged: 6.0 gallons

Sampling Information

Date Sample Collected: 05/27/14 Time Sample Collected: 1640 am (pm)
Sampling Equipment Used: bailer

Bottle Type	Preservation	Analysis Required
3-40mL VOA	HCL	8260 + THF
1-250mL	HNO_3	6010 / 7470
2-250mL/1-500mL	NONE	sulfate / chloride / Alk / TDS
2-125mL	NAOH / Zn acetate & NAOH	cyanide / sulfide
6-1-liter amber	NONE	8270 / 8081 / 8151

Field Measurements/Observations

Sample Temp. (°C): 17.8 Time: 16:40
Sample pH (s.u.): 6.3 Time: 16:40
Specific Cond. (uS): 623 Time: 16:40
ReDox (mV): 406 Time: 16:40
Odor: NONE
Turbidity (ntu): 50 Time: 1640
Dis. Oxy. (mg/L): 5.4 Time: 1640
Res. Cl (mg/L): — Time: —
Other: — Time: —
Appearance: murky
General Observations: MW-15

Weather Conditions: 80F WIND SW 15 mph Showers

Sampler Signature: [signature] Date: 05/27/14

Stabilization Test

Time Purged	pH (s.u.)	Spec. Cond. (uS)	Redox. (mV)	Turbidity (ntu)	Dissolved Oxy. (mg/L)	Temp. (°C)	Volume Removed (gals.)	Other
13:38	6.2	651	417	59	4.3	17.0	2.0	—
13:45	6.1	659	419	75	4.2	17.1	4.0	—
16:00	6.2	628	413	48	3.6	16.8	6.0	—

Pace Analytical

1	0.0408
1.5	0.0918
1.625	0.1080
2	0.1630
3	0.3670
4	0.6530
6	1.4680
8	2.6100

SW-1

GROUNDWATER SAMPLING **FIELD DATA SHEET**

Client: HDR Location: Winston-Salem, NC Project Name/#: OSR
Name & Affiliation (Sampler(s): JJO - PACE
Name & Affiliation (Inspector): N/A

Well Information

Well ID: SW-1 Well Locked: yes no
Well Diameter: — Construction: PVC Steel Stainless Steel
Total Well Depth: — ft. Multi. Factor*: — {*(Radius/12)^2 X 3.14 x 7.48}
Static Water Level: — ft. Casing Volume: — gallons
Height of Water Col.: — ft. Cal. 3 Volumes: — gallons

Purge Information

Date Purged: — / — / — Time Start: — Finish: — Purge Rate: —
Purging Method: — Total Volume Purged: — gallons

Sampling Information

Date Sample Collected: 05/29/14 Time Sample Collected: 1345 am pm
Sampling Equipment Used: GRAB

Bottle Type	Preservation	Analysis Required
3-40mL VOA	HCL	8260+ THF
1-250mL	HNO_3	6010 / 7470
2-250mL / 1-500mL	NONE	sulfate / chloride / ALK / TDS
1-125mL	NAOH	cyanide
1-125mL	Zn acetate / NAOH	sulfide

Field Measurements/Observations

Sample Temp. (°C): 21.2 Time: 1345
Sample pH (s.u.): 6.4 Time: 1345
Specific Cond. (uS): 205 Time: 1345
ReDox (mV): 284 Time: 1345
Odor: NONE
Turbidity (ntu): 51 Time: 13:45
Dis. Oxy. (mg/L): 5.5 Time: 13:45
Res. Cl (mg/L): — Time: —
Other: — Time: —
Appearance: murky
General Observations: SW-1 surface H_2O

Weather Conditions: 80°F winds SE 10mph partly cloudy

Sampler Signature: J Quathen Date: 05/29/14

Stabilization Test

Time Purged	pH (s.u.)	Spec. Cond. (uS)	Redox. (mV)	Turbidity (ntu)	Dissolved Oxy. (mg/L)	Temp. (°C)	Volume Removed (gals.)	Other

Pace Analytical®

1	0.0408
1.5	0.0918
1.625	0.1080
2	0.1630
3	0.3670
4	0.6530
6	1.4680
8	2.6100

SW-2

GROUNDWATER SAMPLING **FIELD DATA SHEET**

Client: HDR Location: Winston-Salem, NC Project Name/#: OSR
Name & Affiliation (Sampler(s): JJQ - PACE
Name & Affiliation (Inspector): N/A

Well Information

Well ID: SW-2 Well Locked: yes no
Well Diameter: — Construction: PVC Steel Stainless Steel
Total Well Depth: — ft. Multi. Factor*: — {*(Radius/12)² X 3.14 x 7.48}
Static Water Level: — ft. Casing Volume: — gallons
Height of Water Col.: — ft. Cal. 3 Volumes: — gallons

Purge Information

Date Purged: 05/29/14 Time Start: — Finish: — Purge Rate: —
Purging Method: — Total Volume Purged: — gallons

Sampling Information

Date Sample Collected: 05/29/14 Time Sample Collected: ~~1300~~ 1240 am pm
Sampling Equipment Used: GRAB

Bottle Type	Preservation	Analysis Required
3-40mL VOA	HCl	8260 + THF
1-250mL	HNO_3	6010 / 7470
2-250mL / 1-500mL	NONE	Sulfate / chloride & Alk / TDS
1-125mL	NAOH	cyanide
1-125mL	Zn acetate / NAOH	Sulfide

Field Measurements/Observations

Sample Temp. (°C): 19.7 Time: 12:40
Sample pH (s.u.): 6.8 Time: 12:40
Specific Cond. (uS): 183 Time: 12:40
ReDox (mV): 252 Time: 12:40
Odor: NONE
Turbidity (ntu): 23 Time: 12:40
Dis. Oxy. (mg/L): 7.3 Time: 12:40
Res. Cl (mg/L): — Time: —
Other: — Time: —
Appearance: murky
General Observations: SW-2 surface H2O

Weather Conditions: 80 F WINDS 5 to 10 mph partly cloudy

Sampler Signature: [signature] Date: 05/29/14

Stabilization Test

Time Purged	pH (s.u.)	Spec. Cond. (uS)	Redox. (mV)	Turbidity (ntu)	Dissolved Oxy. (mg/L)	Temp. (°C)	Volume Removed (gals.)	Other

Pace Analytical

1	0.0408
1.5	0.0918
1.625	0.1080
2	0.1630
3	0.3670
4	0.6530
6	1.4680
8	2.6100

SW-3

GROUNDWATER SAMPLING **FIELD DATA SHEET**

Client: HDR Location: Winston Salem NC Project Name/#: OSR
Name & Affiliation (Sampler(s): JJQ - PACE
Name & Affiliation (Inspector): N/A

Well Information

Well ID: SW-3 Well Locked: yes no
Well Diameter: — Construction: PVC Steel Stainless Steel
Total Well Depth: — ft. Multi. Factor*: — {*(Radius/12)² X 3.14 x 7.48}
Static Water Level: — ft. Casing Volume: — gallons
Height of Water Col.: — ft. Cal. 3 Volumes: — gallons

Purge Information

Date Purged: —/—/— Time Start: — Finish: — Purge Rate: —
Purging Method: — Total Volume Purged: — gallons

Sampling Information

Date Sample Collected: 05/29/14 Time Sample Collected: 1200 am (pm)
Sampling Equipment Used: GRAB

Bottle Type	Preservation	Analysis Required
3-40ml VOA	HCl	8260+THF
1-250mL	HNO_3	6010/7470
2-250ml/1-500mL	NONE	Sulfate / chloride & Alk/TDS
1-125mL	NaOH	Cyanide
1-125mL	Zn Acetate / NaOH	Sulfide

Field Measurements/Observations

Sample Temp. (°C): 18.9 Time: 12:00 Turbidity (ntu): 14 Time: 12:00
Sample pH (s.u.): 6.5 Time: 12:00 Dis. Oxy. (mg/L): 2.9 Time: 12:00
Specific Cond. (uS): 649 Time: 12:00 Res. Cl (mg/L): — Time: —
ReDox (mV): 127 Time: 12:00 Other: — Time: —
Odor: sulfurous Appearance: clear
General Observations: SW-3 surface H2O

Weather Conditions: 80F WINDS 5 to 10 mph partly cloudy

Sampler Signature: J Quelthen Date: 05/29/14

Stabilization Test

Time Purged	pH (s.u.)	Spec. Cond. (uS)	Redox. (mV)	Turbidity (ntu)	Dissolved Oxy. (mg/L)	Temp. (°C)	Volume Removed (gals.)	Other
			surface					
				water				

Pace Analytical

1	0.0408
1.5	0.0918
1.625	0.1080
2	0.1630
3	0.3670
4	0.6530
6	1.4680
8	2.6100

SW-4

GROUNDWATER SAMPLING **FIELD DATA SHEET**

Client: HDR Location: Winston-Salem, NC Project Name/#: OSR
Name & Affiliation (Sampler(s): JJQ - PACE
Name & Affiliation (Inspector): N/A

Well Information

Well ID: SW-4 Well Locked: yes no
Well Diameter: — Construction: PVC Steel Stainless Steel
Total Well Depth: — ft. Multi. Factor*: — {*(Radius/12)² X 3.14 x 7.48}
Static Water Level: — ft. Casing Volume: — gallons
Height of Water Col.: — ft. Cal. 3 Volumes: — gallons

Purge Information

Date Purged: — / — / — Time Start: — Finish: — Purge Rate: —
Purging Method: — Total Volume Purged: — gallons

Sampling Information

Date Sample Collected: 05/29/14 Time Sample Collected: 13:05 am pm
Sampling Equipment Used: grab

Bottle Type	Preservation	Analysis Required
3-40mL VOA	HCL	8260+THF
1-250mL	HNO_3	6010/7470
2-250mL/1-500mL	NONE	Sulfate/chloride & ALK/TDS
1-125mL	NAOH	cyanide
1-125mL	Zn acetate/NAOH	sulfide

Field Measurements/Observations

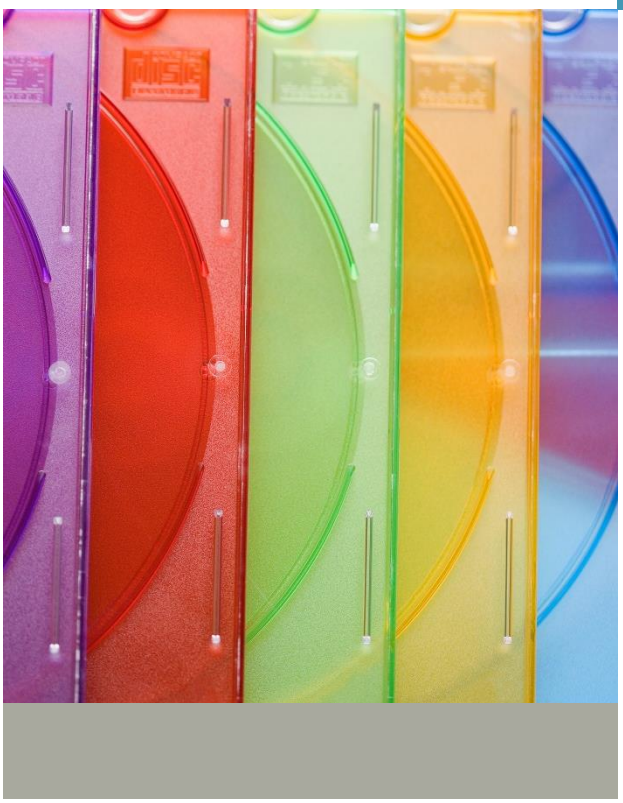
Sample Temp. (°C): 19.3 Time: 1305
Sample pH (s.u.): 6.8 Time: 1305
Specific Cond. (uS): 478 Time: 1305
ReDox (mV): 262 Time: 1305
Odor: NONE
Turbidity (ntu): 33 Time: 1305
Dis. Oxy. (mg/L): 7.0 Time: 1305
Res. Cl (mg/L): — Time: —
Other: — Time: —
Appearance: murky
General Observations: SW-4 surface water

Weather Conditions: 80F WNWDS 5 to 10mph partly cloudy

Sampler Signature: [signature] Date: 5/29/14

Stabilization Test

Time Purged	pH (s.u.)	Spec. Cond. (uS)	Redox. (mV)	Turbidity (ntu)	Dissolved Oxy. (mg/L)	Temp. (°C)	Volume Removed (gals.)	Other



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Appendix D – Compact Disc

Electronic version of this Report

Electronic Data Deliverable (EDD) of Groundwater Results