Quarterly Water Quality Monitoring Report

Prepared for

Surry County Closed C&D and Closed MSWLF, Mt. Airy
Mt. Airy, North Carolina

May 2012

UIC Permit Number:WI0400176
SWS Facility Permit Number: 86-02
MESCO Project Number: G12032.0

Submitted: October 16, 2012

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

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

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

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License No. C-0281

CIVIL/SANITARY/ENVIRONMENTAL ENGINEERS
SOLID WASTE MANAGEMENT
Municipal Services
Engineering Company, P.A.
SITE PLANNING/SUBDIVISIONS
SUBSURFACE UTILITY ENGINEERING (SUE)

October 16, 2012

Mr. Thomas Slusser, P.G.
Aquifer Protection Section-Underground Injection Control Program
Division of Water Quality
North Carolina Department of Environment and Natural Resources
1636 Mail Service Center
Raleigh, NC 27699-1636

Re: ***Quarterly Water Quality Monitoring Report***
Surry County Closed C&D and Closed MSWLF, Mt. Airy
237 Landfill Road
Mount Airy, NC 27030
SWS Permit No. 86-02
UIC Permit No. WI0400176
MESCO Project No. G12032.0

Dear Mr. Slusser:

Introduction

On behalf of Surry County, Municipal Engineering Services Company, P.A. (MESCO) is pleased to present this *Quarterly Water Quality Monitoring Report* for the Spring 2012 event performed at the Surry County closed construction and demolition (C&D) and closed municipal solid waste landfill (MSWLF)-Mount Airy. The *Injection Well Permit Application* and Well Permit No. WI0400176 (5/6/11) requires that Surry County provide this report to the Underground Injection Control (UIC) program on a quarterly basis. This report documents the quality of the groundwater during this monitoring event performed on May 30, 2012. Laboratory analytical results indicate volatile organic compounds (VOCs) attributed to landfill activities continue to persist within three wells that monitor the uppermost aquifer downgradient of three injection points. However, total VOC concentrations have decreased in two of the three locations compared to the baseline established during the five events prior to the November 2011 injection event.

Background

The Surry County closed C&D and MSWLF, permit #86-03, is located at 237 Landfill Road in Mt. Airy North Carolina. The site location topographic map is depicted in the attached **Figure 1**. Prior to becoming a C&D landfill the subject area operated as a MSW unlined sanitary landfill that stopped receiving waste prior to January 1, 1999. The MSWLF was closed with a low permeability cohesive cap per the *Transition Plan*. The top portion of the southern unit served as an exclusive C&D landfill until prior to June 1, 2008 at which time it was properly closed with another cohesive cap in accordance to the *Closure Plan*.

Per the NC Solid Waste Section (SWS) approved *Corrective Action Plan* enhanced bioremediation via substrate and tracer injection was initiated in accordance with requirements outlined in the *Injection Well Permit Application* and Well Permit No. WI0400176 (5/6/11). EOS®598B42 plus 1x16 oz EOS® Vitamin B12 supplement and sodium bromide tracer were injected into four wells on November 2-3, 2011 in an effort to reduce low level aliphatic and aromatic chlorinated hydrocarbons in groundwater to below the North Carolina Groundwater Standards (2L Standards). Injections were performed through IW-1, IW-2, IW-3 and IW-5 and details are provided in the *Injection Event Record* dated November 4, 2010.

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PO Box 349, Boone, NC 28607 (828) 262-1767

Water quality at this facility has been monitored at least semi-annually since 1989 with historical data available since 1994. This is the second quarterly post injection report and the premier post injection report was submitted to the UIC and SWS on July 25, 2012.

This report contains sampling procedures, field and laboratory results, groundwater and surface water characterization, and findings. A table of detections compared to Standards, field data results table, groundwater flow directions/rates table, a potentiometric map of the uppermost aquifer, indicator parameter data table and laboratory analytical data results are also enclosed.

Sampling Procedure

MESCO personnel performed this sampling event following the parameters, frequency and well locations established by the UIC. This event was performed in conjunction with the required SWS semi-annual water quality monitoring event; therefore additional information than required by the UIC may be reported.

Groundwater samples were collected and analyzed from nine wells which includes MW-3R, MW-12S, MW-12D, MW-13, MW-15, MW-16, MW-18, MW-19 and upgradient background well MW-1. Additionally, water within the injection wells were measured and visually evaluated in an effort to determine the amount of residual organic substrate remaining in the wells which may help evaluate the viability of these wells to be used for future water quality analysis. Monitoring locations are depicted on **Figure 2**.

Sampling was performed per the protocols outlined in the SWS approved Groundwater and Surface Water Sampling and Analysis Plan which was submitted with the *Corrective Action Plan* (CAP) revision 2 dated December 10, 2010. The depth to water in each well was electronically gaged prior to purging to quantify the static water level elevation. Low-flow pumping methodology or bailing was utilized to adequately purge the wells a minimum of three well volumes or until dry. During purging the stabilized field parameters were recorded. The samples were then placed into laboratory-prepared, pre-preserved containers via a new disposable polyethylene bailer. Samples were kept on ice, and transported to a NC-certified laboratory under proper chain of custody (C-O-C) protocols.

Field Parameter Data

Field parameters recorded included pH, specific conductance, temperature, dissolved oxygen (DO), oxidation reduction potential (ORP), total dissolved solids (TDS) and turbidity. A summary of the field parameter data is presented in **Table 4.**

Laboratory Results

Pace Analytical Laboratories (PACE) of Huntersville and Asheville, NC performed the majority of the laboratory analysis. Groundwater samples were analyzed for all the parameters requested by the UIC which includes VOCs and total metals listed in Appendix II of 40 CFR 258, alkalinity, sulfate, chloride, total organic carbon and biochemical oxygen demand. Environmental Conservation Laboratories (ENCO) of Cary, NC analyzed the samples for the bromide tracer. A sampling and analysis table summarizing the locations, target parameters and laboratory methods is presented as **Table 1**. Water samples were reported at the laboratory specific Method Detection Limits (MDL), which are quantifiable at or below the current Solid Waste Section Limits (SWSL). Laboratory results and C-O-Cs are presented in **Appendix A**.

Groundwater Samples

The only total metal exceedance was an unprecedented concentration of cadmium detected in MW-12D. The wells with VOCs detected in quantifiable concentrations in exceedance of their respective 2L Standard during this event include MW-15 (1,1-dichloroethane, TCE, PCE, benzene) and MW-16 (benzene, 1,4-dichlorobenzene, 1,2-dichloropropane, 1,1-dichloroethane, vinyl chloride). **Table 2** summarizes Appendix I constituents detected in the water samples in concentrations above the current SWSL or North Carolina Groundwater Standards (2L). **Table 3** summarizes indicator parameters quantified by the laboratory.

A site map depicting the spatial distribution of VOC concentrations detected above the 2L Standard during this event is presented on **Figure 2.**

Groundwater Characterization

A potentiometric map of the uppermost aquifer created from static groundwater elevations recorded during the May 2012 event is included as **Figure 2**. Groundwater flow rates and directions were calculated via modified Darcy's equation and are included in **Table 5**. Groundwater flows in the unconfined and upper bedrock water-bearing zones in a general southwesterly direction away from the waste limits. Calculated groundwater velocities were variable but consistent compared to historical observations.

Findings

The quarterly laboratory results indicate that low level dissolved phase VOCs consisting of chlorinated hydrocarbons and aromatics continue to be detected in groundwater samples collected from MW-13, MW-15 and MW-16 which are located within the relevant compliance boundary. Contamination continues to not be identified in samples collected from the other six wells sampled during this event. All VOCs detected in concentrations above the 2L Standard during this event remain within their own respective historically identified range. The total cumulative VOC concentrations detected in the nine wells monitored during this event decreased by 31% (267 ug/l to 184 ug/l) compared to the moving average of the five events that proceeded the injections (**Figure 3**). Specifically total cumulative VOC concentrations decreased 45% in MW-16, 44% in MW-13 and increased 8% in MW-15 compared to their own respective five event moving average (**Figure 3**).

Evaluation of the injection wells (IW-1, IW-2, IW-3, IW-5) continues to indicate that a considerable amount of residual organic substrate remain in each of these wells rendering them unsuitable for representative water quality analysis. The viscosity of the water in the injection wells during this May 2012 event precludes sample collection as either a bailer would not descend or the check valve failed. As previously speculated It was confirmed that injection into IW-1 was unsuccessful as no more than 3 gallons of substrate was introduced to the fractured bedrock aquifer at IW-1. The depth to substrate as measured in IW-1 had only subsided a total of approximately 22 feet in 210 days (<2”/day) and had yet to reach the 50 foot pre-injection static level.

Bromide tracer was only detected in low non-quantifiable “j-qualified” concentrations in MW-16.

Closing

Corrective action to remediate the VOCs as detected in groundwater is expected to continue. The third post injection quarterly water quality monitoring was performed on August 20, 2012 and the report will be submitted to UIC and SWS upon completion. If you have any questions regarding this report, please contact us at (919) 772-5393 or by email at jpfohl@mesco.com or mdurway@mesco.com.

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

Jonathan Pfohl
Environmental Specialist

Enclosures

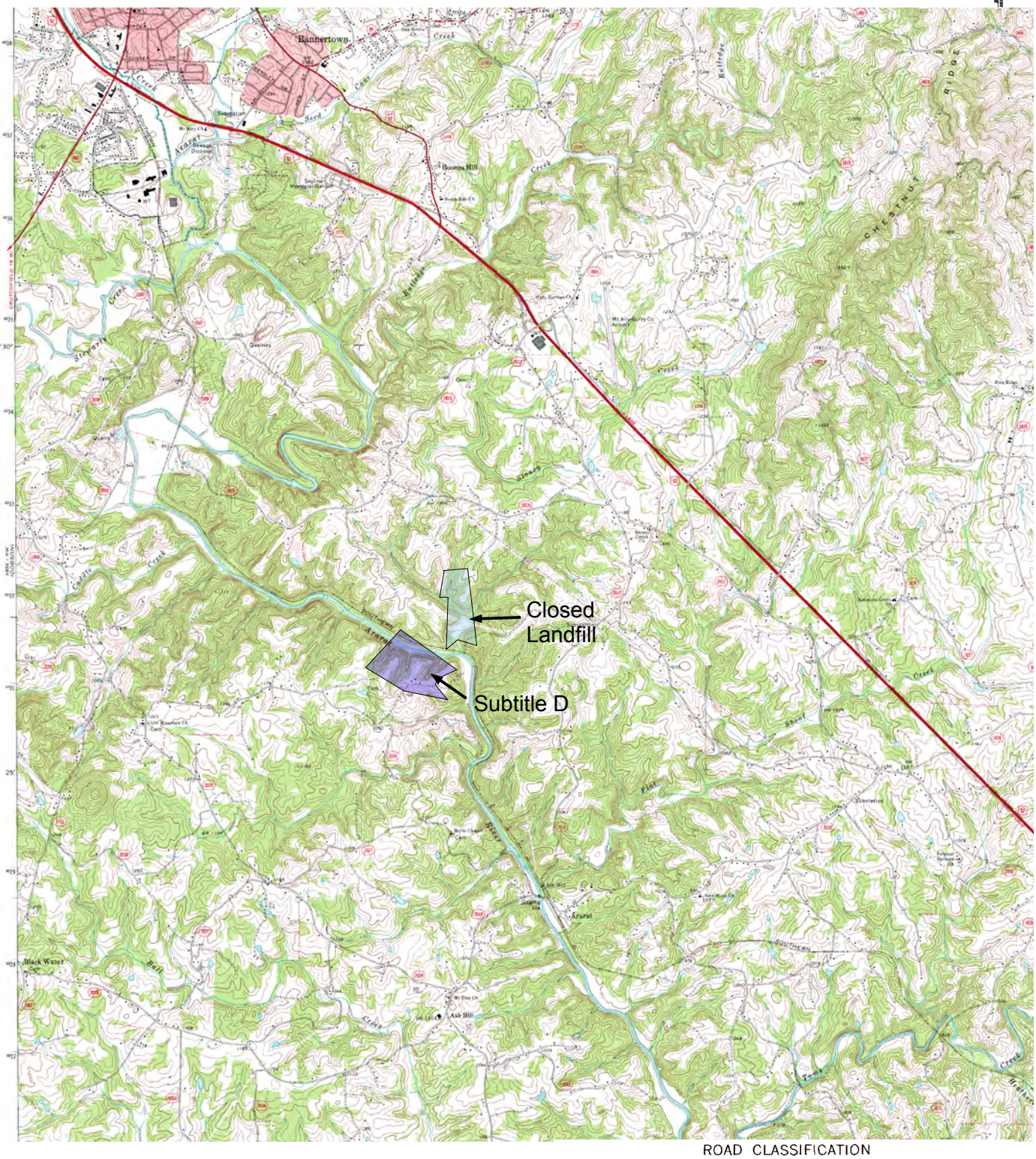
cc: Mr. Dennis Bledsoe
Surry County

Ms. Jaclynne Drummond
SWS-Compliance Branch

Figures

Topographic Map with Site Location

Surry County Subtitle D Lined MSLF, Phases 1 & 2
Surry County Closed C&D and Closed MSWLF, Mt. Airy



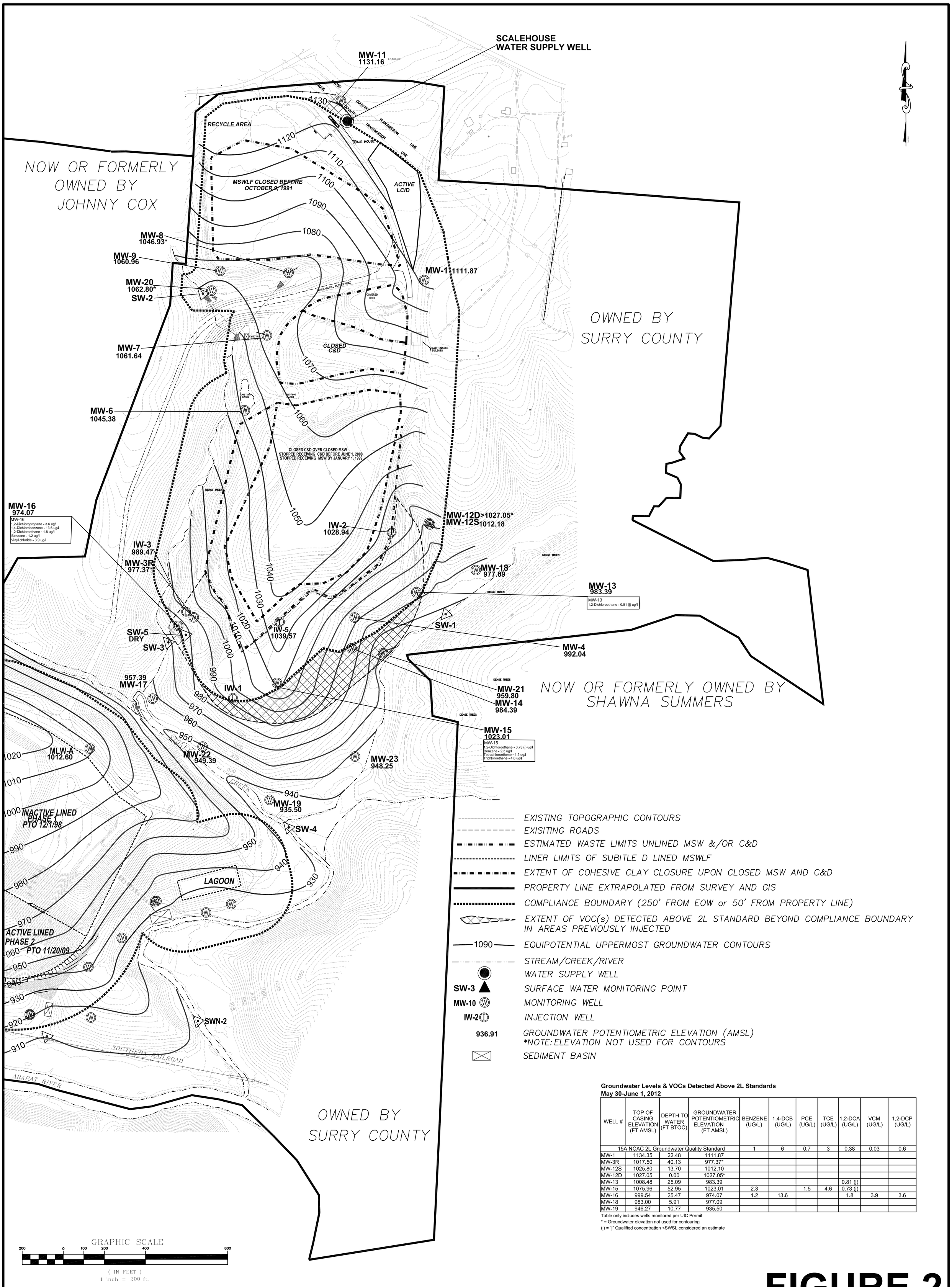
237 Landfill Road
Mount Airy, NC 28621
Lat:36-26-30.065
Long:-80-34-15.314
Northing:983356.18
Easting:1537885.48

ROAD CLASSIFICATION

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

1 0 1 MILE

FIGURE 1



Groundwater Levels & VOCs Detected Above 2L Standards
May 30-June 1, 2012

WELL #	TOP OF CASING ELEVATION (FT AMSL)	DEPTH TO WATER (FT BTOC)	GROUNDWATER POTENTIOMETRIC ELEVATION (FT AMSL)	BENZENE (UG/L)	1,4-DCB (UG/L)	PCE (UG/L)	TCE (UG/L)	1,2-DCA (UG/L)	VCM (UG/L)	1,2-DCP (UG/L)
15A NCAC 2L Groundwater Quality Standard				1	6	0.7	3	0.38	0.03	0.6
MW-1	1134.35	22.48	1111.87							
MW-3R	1017.50	40.13	977.37*							
MW-12S	1025.80	13.70	1012.10							
MW-12D	1027.05	0.00	1027.05*							
MW-13	1008.48	25.09	983.39					0.81 (j)		
MW-15	1075.96	52.95	1023.01	2.3		1.5	4.6	0.73 (j)		
MW-16	999.54	25.47	974.07	1.2	13.6			1.8	3.9	3.6
MW-18	983.00	5.91	977.09							
MW-19	946.27	10.77	935.50							

Table only includes wells monitored per UIC Permit
* = Groundwater elevation not used for contouring
(j) = "j" Qualified concentration <SWSL considered an estimate

FIGURE 2

DRAWING NO.	SHEET NO.	PROJECT NUMBER	CHKD. BY:	DRWN. BY:	DATE:	SCALE:
FIGURE 2	1 OF 1	G120032.0	M. DURWAY	J. PFOHL	9/11/12	1" = 200'

DATE	BY	REV.	DESCRIPTION

POTENTIOMETRIC MAP OF UPPERMOST AQUIFER
WITH VOCS DETECTED ABOVE 2L STANDARDS

CLOSED C&D LANDFILL and
CLOSED MSWLF FACILITY
SURRY COUNTY
MT. AIRY, NORTH CAROLINA

Municipal Services
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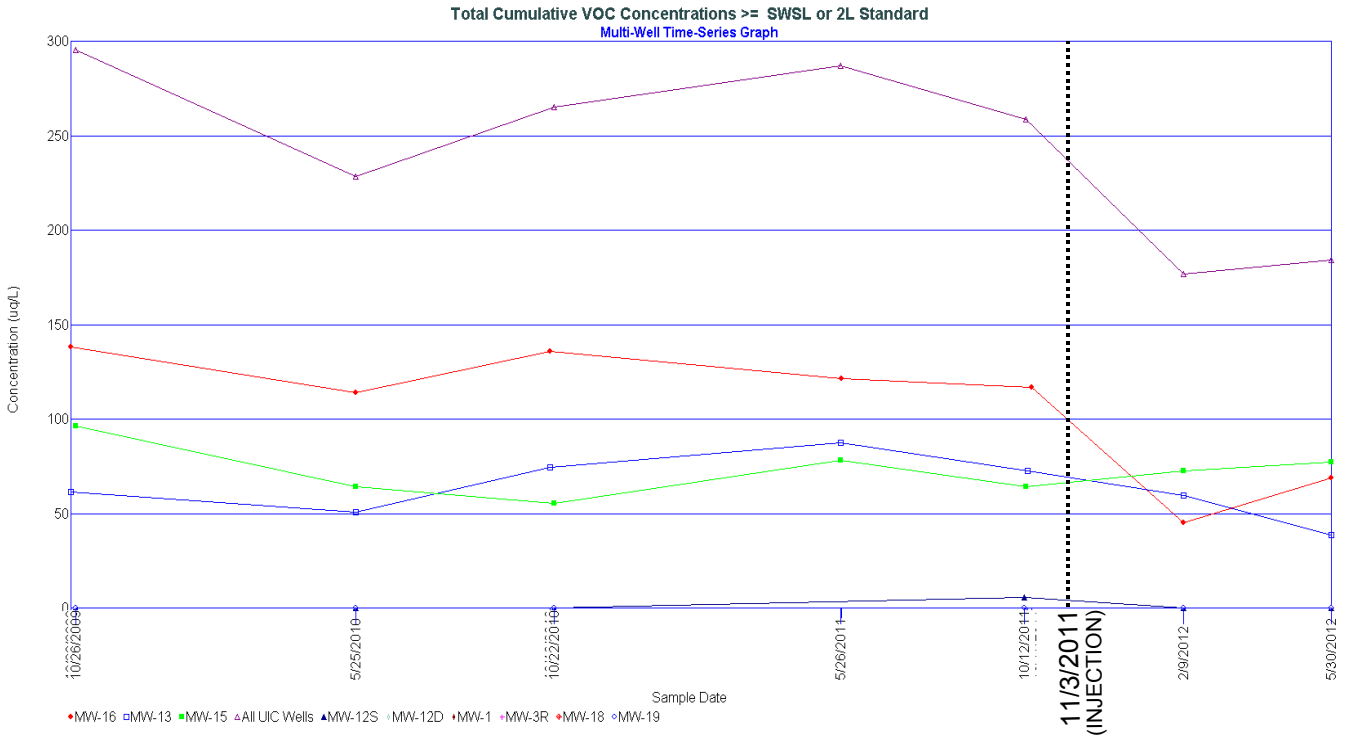
LICENSE NUMBER: C-0281

Figure 3
Total Cumulative VOC Concentrations Pre/Post Injection Comparison
October 22, 2009 – May 31, 2012



Well ID	Oct 2009 (ug/L)	May 2010 (ug/L)	Oct 2010 (ug/L)	May 2011 (ug/L)	Oct 2011 (ug/L)	Five Event Moving Average of Five Events Preceding Injection (ug/L)	May 2012 (ug/L)	Difference (ug/L)	Difference (%)
MW-1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MW-3R	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MW-12S	0.00	0.00	0.00	0.00	5.40	1.08	0.00	-1.08	-100.00
MW-12D	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MW-13	61.00	50.60	74.20	87.30	72.50	69.12	38.41	-30.71	-44.43
MW-15	96.13	63.89	55.00	78.10	64.06	71.44	76.83	5.39	7.55
MW-16	137.90	113.60	135.70	121.20	116.30	124.94	68.60	-56.34	-45.09
MW-18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MW-19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined Total	295.03	228.09	264.90	286.60	258.26	266.58	183.84	-82.74	-31.04

Tables

Table 1
Sampling and Analysis Summary
May 30, 2012

		App. II		MNA					Tracer
	Reason Not Sampled	VOCs	Total Metals	Alkalinity	Sulfate	Chloride	TOC	BOD	Bromide
		Lab EPA 8260B	Lab EPA 6000/7000	Lab SM 2320B	EPA 300.0	Lab SM 4500-Cl-E	SM 5310B	SM5210B	EPA 300.0
MW-1		x	x	x	x	x	x	x	
MW-3R		x	x	x	x	x	x	x	
MW-12S		x	x	x	x	x	x	x	x
MW-12D		x	x	x	x	x	x	x	
MW-13		x	x	x	x	x	x	x	x
MW-14		x	x	x	x	x	x	x	x
MW-15		x	x	x	x	x	x	x	x
MW-16		x	x	x	x	x	x	x	x
MW-18		x	x	x	x	x	x	x	
MW-19		x	x	x	x	x	x	x	

App I = from current 40 CFR 258

Table 2
Detections in Water Samples above SWSL, GWP or 2L Standard (Appendix I)
May 30, 2012

Sample ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [2]	SWSL [3]	2L [4]	2B [5]	GWP [6]	Exceedance Amount
MW-12D	**Cadmium**	**5/30/12**	**2.5**	**ug/L**	**1**	**1**	**1.75**			**0.75**
MW-13	**1,2-Dichloroethane**	**5/30/12**	**0.81 j**	**ug/L**	**0.12**	**1**	**0.38**			**0.43**
MW-13	Trichloroethene	5/30/12	1.1	ug/L	0.47	1	3			
MW-13	1,1-Dichloroethane	5/30/12	7.6	ug/L	0.32	5	70			
MW-13	cis-1,2-Dichloroethene	5/30/12	26.9	ug/L	0.19	5	70			
MW-13	1,4-Dichlorobenzene	5/30/12	2	ug/L	0.33	1	6			
MW-15	**Tetrachloroethene**	**5/30/12**	**1.5**	**ug/L**	**0.46**	**1**	**0.7**			**0.8**
MW-15	**Benzene**	**5/30/12**	**2.3**	**ug/L**	**0.25**	**1**	**1**			**1.3**
MW-15	**Trichloroethene**	**5/30/12**	**4.6**	**ug/L**	**0.47**	**1**	**3**			**1.6**
MW-15	**1,2-Dichloroethane**	**5/30/12**	**0.73 j**	**ug/L**	**0.12**	**1**	**0.38**			**0.35**
MW-15	1,1-Dichloroethane	5/30/12	23.1	ug/L	0.32	5	70			
MW-15	1,4-Dichlorobenzene	5/30/12	4	ug/L	0.33	1	6			
MW-15	cis-1,2-Dichloroethene	5/30/12	40.6	ug/L	0.19	5	70			
MW-16	**Benzene**	**5/30/12**	**1.2**	**ug/L**	**0.25**	**1**	**1**			**0.2**
MW-16	**1,2-Dichloroethane**	**5/30/12**	**1.8**	**ug/L**	**0.12**	**1**	**0.38**			**1.42**
MW-16	**1,2-Dichloropropane**	**5/30/12**	**3.6**	**ug/L**	**0.27**	**1**	**0.51**			**3.09**
MW-16	**Vinyl chloride**	**5/30/12**	**3.9**	**ug/L**	**0.62**	**1**	**0.03**			**3.87**
MW-16	**1,4-Dichlorobenzene**	**5/30/12**	**13.6**	**ug/L**	**0.33**	**1**	**6**			**7.6**
MW-16	Chlorobenzene	5/30/12	4.3	ug/L	0.23	3	50			
MW-16	cis-1,2-Dichloroethene	5/30/12	38.7	ug/L	0.19	5	70			
MW-16	Cobalt	5/30/12	58.8	ug/L	5	10			70	
MW-16	Trichloroethene	5/30/12	1.5	ug/L	0.47	1	3			
TB	Methylene Chloride	6/1/12	3.2	ug/L	0.97	1	4.6			

[1] Table contains Appendix I constituents detected in wells designated by UIC at levels at or above SWSL, GWP, 2L, or 2B

[2] MDL = Method Detection Limit

[3] SWSL = Solid Waste Section Reporting Limit

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

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

[6] GWP = Groundwater Protection Standard

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

BOLD = Concentration > 2L Standard

Table 3
Indicator Parameter Data Summary
May 30, 2012

Parameters	Method	MDL*	Units	MW-1	MW-3R	MW-12S	MW-12D	MW-13	MW-15	MW-16	MW-18	MW-19
				5/30/12	5/30/12	5/30/12	5/30/12	5/30/12	5/30/12	5/30/12	5/30/12	5/30/12
Alkalinity	SM 2320B	1000	ug/L	69800	94600	76800	79800	57700	5/30/12	114000	7250	16500
Sulfate	EPA 300.0	2000	ug/L	7710	4960	44900	8540	2680	54500	5000	<2000	2190
Chloride	SM 4500-Cl-E	1000	ug/L	3560	2780	4650	1110	34200	<2000	18800	1400	2510
TOC	SM 5310B	1000	ug/L	<1000	<1000	15200	<1000	2430	<1000	3220	<1000	<1000
BOD	SM5210B	2000	ug/L	<2000	<2000	<2000	7200	<2000	<2000	<2000	<2000	<2000
Temperature	Field Instrument	0	C	14.4	15.7	13.7	13.9	14.7	14.7	14.5	14.2	14.1
ORP	Field Instrument	-900	mV	167.0	121	-778	68	281	31.0	55	196	307
DO	Field Instrument	0	mg/L	2.9	0.6	2.5	3.6	0.7	1	0.9	7.9	3.8
pH	Field Instrument	0	SU	6.0	7.54	7.33	7.03	5.83	5.9	6.1	5.85	5.58
Bromide (Tracer)	EPA 300.0	0.029	mg/L	NS	NS	<0.029	NS	<0.029	<0.029	0.13	NS	NS
Sp. Conductance	Field Instrument	0	us/cm	300	260	170	500	200	130	300	13	0
Depth to Water	Field Instrument	0.00	ftbtoc	22.48	40.13	13.37	0.00	25.09	52.95	25.47	5.91	10.77
Water Elevation	Calculation	0.00	Ftamsl	1111.87	977.37	1012.10	1027.05	983.39	1023.01	974.07	977.09	935.5

Notes:

MDL* = Lab Method Detection Limit or lowest field measurement possible. Constituents detected below quantifiable limits are shown as < MDL value.

Table 4
Field Parameter Data Summary
May 30, 2012

Parameter	Depth to Water*	Water Elevation	TOC Elevation	Temp.	ORP	DO	pH	Specific Conductance	TDS	Turbidity
Units	**ft (btoc)**	**ft (amsl)**	**ft (amsl)**	**C**	**mV**	**mg/L**	**SU**	**umhos/cm**	**mg/L**	**Visual or NTU**
IW-1	22.63	na	na	NR	NR	NR	NR	NR	NR	>1000
MW-1	22.48	1111.87	1134.35	14.4	167	2.9	5.96	300	150	14.8
IW-2	39.92	1068.86	1068.86	NR	NR	NR	NR	NR	NR	>1000
MW-3R	40.13	977.37	1017.50	15.7	121	0.6	7.54	260	130	Clear
IW-3	NR	na	1020.57	NR	NR	NR	NR	NR	NR	>1000
IW-5	40.61	1039.57	1080.18	NR	NR	NR	NR	NR	NR	>1000
MW-12S	13.70	1012.10	1025.80	13.7	-778	2.5	7.33	170	85	325
MW-12D	0.00	1027.05	1027.05	13.9	68	3.6	7.03	500	250	114
MW-14	34.41	984.39	1018.80	14.5	132	2.4	5.39	81	40	18.2
MW-15	52.95	1023.01	1075.96	14.7	31	0.8	5.93	130	60	205
MW-16	25.47	974.07	999.54	14.5	55	0.9	6.10	300	150	Clear
Minimum	0.00	974.07	999.54	13.7	-778	0.6	5.39	81	40	14.80
Average	29.96	1024.25	1046.86	14.5	-29	2.0	6.47	249	124	135.4
Maximum	52.95	1111.87	1134.35	15.7	167	3.6	7.54	500	250	325

btoc = Below top of casing
amsl = Above mean sea level
na = Not available
NR = No reading attempted

Table 5
Hydrologic Properties at Monitoring Well Locations
May 30, 2012

Monitoring Well	Hydraulic Conductivity (cm/second)	Effective Porosity (%)	Hydraulic Gradient (feet/feet)	Groundwater Average Linear Velocity Rate (feet/year)	Flow Direction	Groundwater Depth (feet btoc)	Groundwater Potentiometric Elevation (feet amsl)	Screened Interval Lithology
MW-1	4.30E-05	15	0.522	155	S42W	22.48	1111.87	Clay
IW-2	4.30E-05	15	0.154	46	S43E	39.92	1028.94	Clay
MW-13	2.06E-04	23	0.295	273	S27E	25.09	983.39	Saprolite
MW-18	2.04E-03	15	0.093	na	S29W	5.91	977.09	Saprolite
MW-19	1.10E-03	3	0.094	3,576	S12W	10.77	935.50	PWR
Minimum	4.30E-05	3	0.093	46	-	5.91	935.5	-
Average	6.86E-04	14	0.232	1,012	-	20.83	1007.36	-
Maximum	2.04E-03	23	0.522	3,576	-	39.92	1111.87	-
MW-3R	2.40E-04	5	na	na	na	40.13	977.37	Fractured Rock
IW-3	2.40E-05	5	0.215	107	S41W	31.10	989.47	Fractured Rock
IW-5	1.50E-05	5	0.066	20	S04W	40.61	1039.57	Fractured Rock
MW-12S	na	3	0.232	na	S09W	13.70	1012.10	Fractured Rock
MW-12D	1.30E-06	5	na	na	na	0.00	1027.05	Fractured Rock
MW-15	7.21E-05	3	0.193	480	S03W	52.95	1023.01	Fractured Rock
MW-16	2.82E-05	3	0.200	194	S42W	25.47	974.07	Fractured Rock
Minimum	1.30E-06	3	0.066	20	-	0.00	974.07	-
Average	6.34E-05	4	0.181	200	-	29.14	1006.09	-
Maximum	2.40E-04	5	0.232	480	-	52.95	1039.57	-

NOTE: Values for hydraulic conductivity determined via slug test by GAI, MESCO, or Joyce.
Hydrologic gradient from water levels recorded on May 30, 2012.
Wells screened entirely in rock were not utilized for flow directions/gradients.
Screens that traverse both rock and regolith assumed flow in regolith dominates.
na = Not available/applicable
Average Linear Velocity (Q) is defined by modified Darcy's equation:

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

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

Appendix A
Laboratory Analysis Reports
Chains of Custody

Pace Analytical Services, Inc.
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Huntersville, NC 28078
(704)875-9092

June 14, 2012

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

RE: Project: SURRY CLOSED - MT AIRY (UIC)
Pace Project No.: 92119680

Dear Mr. Pfohl:
Enclosed are the analytical results for sample(s) received by the laboratory on May 31, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

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

Sincerely,

Kevin Godwin

kevin.godwin@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: SURRY CLOSED - MT AIRY (UIC)
Pace Project No.: 92119680

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Virginia Drinking Water Certification #: 00213
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DHH Drinking Water # LA 100031
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460144

Asheville Certification IDs

2225 Riverside Dr., Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia Certification #: 00072
West Virginia Certification #: 356
Virgina/VELAP Certification #: 460147

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SAMPLE SUMMARY

Project: SURRY CLOSED - MT AIRY (UIC)
Pace Project No.: 92119680

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92119680001	**MW-1**	Water	05/30/12 10:15	05/31/12 13:40
92119680002	**MW-3R**	Water	05/30/12 15:05	05/31/12 13:40
92119680003	**MW-12S**	Water	05/30/12 13:35	05/31/12 13:40
92119680004	**MW-12D**	Water	05/30/12 12:00	05/31/12 13:40
92119680005	**MW-13**	Water	05/30/12 17:00	05/31/12 13:40
92119680006	**MW-16**	Water	05/30/12 17:40	05/31/12 13:40
92119680007	**MW-18**	Water	05/30/12 11:00	05/31/12 13:40
92119680008	**MW-19**	Water	05/30/12 14:05	05/31/12 13:40
92119680009	**MW-15**	Water	05/30/12 16:05	05/31/12 13:40

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SAMPLE ANALYTE COUNT

Project: SURRY CLOSED - MT AIRY (UIC)
Pace Project No.: 92119680

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92119680001	**MW-1**	EPA 6010	JDA	16	PASI-A
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	68	PASI-C
		SM 2320B	AES	1	PASI-A
		SM 5210B	SDH	1	PASI-A
		EPA 300.0	EWS	1	PASI-A
		SM 4500-Cl-E	JDA	1	PASI-A
		SM 5310B	SAE	1	PASI-A
92119680002	**MW-3R**	EPA 6010	JDA	16	PASI-A
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	68	PASI-C
		SM 2320B	AES	1	PASI-A
		SM 5210B	SDH	1	PASI-A
		EPA 300.0	EWS	1	PASI-A
		SM 4500-Cl-E	JDA	1	PASI-A
		SM 5310B	SAE	1	PASI-A
92119680003	**MW-12S**	EPA 6010	JDA	16	PASI-A
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	68	PASI-C
		SM 2320B	AES	1	PASI-A
		SM 5210B	SDH	1	PASI-A
		EPA 300.0	EWS	1	PASI-A
		SM 4500-Cl-E	JDA	1	PASI-A
		SM 5310B	SAE	1	PASI-A
92119680004	**MW-12D**	EPA 6010	JDA	16	PASI-A
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	68	PASI-C
		SM 2320B	AES	1	PASI-A
		SM 5210B	SDH	1	PASI-A
		EPA 300.0	SAE	1	PASI-A
		SM 4500-Cl-E	JDA	1	PASI-A
		SM 5310B	SAE	1	PASI-A
92119680005	**MW-13**	EPA 6010	JDA	16	PASI-A
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	68	PASI-C
		SM 2320B	AES	1	PASI-A
		SM 5210B	SDH	1	PASI-A

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SAMPLE ANALYTE COUNT

Project: SURRY CLOSED - MT AIRY (UIC)
Pace Project No.: 92119680

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 300.0	SAE	1	PASI-A
		SM 4500-Cl-E	JDA	1	PASI-A
		SM 5310B	SAE	1	PASI-A
92119680006	**MW-16**	EPA 6010	JDA	16	PASI-A
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	68	PASI-C
		SM 2320B	AES	1	PASI-A
		SM 5210B	SDH	1	PASI-A
		EPA 300.0	SAE	1	PASI-A
		SM 4500-Cl-E	JDA	1	PASI-A
		SM 5310B	SAE	1	PASI-A
92119680007	**MW-18**	EPA 6010	JDA	16	PASI-A
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	68	PASI-C
		SM 2320B	AES	1	PASI-A
		SM 5210B	SDH	1	PASI-A
		EPA 300.0	SAE	1	PASI-A
		SM 4500-Cl-E	JDA	1	PASI-A
		SM 5310B	SAE	1	PASI-A
92119680008	**MW-19**	EPA 6010	JDA	16	PASI-A
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	68	PASI-C
		SM 2320B	AES	1	PASI-A
		SM 5210B	SDH	1	PASI-A
		EPA 300.0	SAE	1	PASI-A
		SM 4500-Cl-E	JDA	1	PASI-A
		SM 5310B	SAE	1	PASI-A
92119680009	**MW-15**	EPA 6010	JDA	16	PASI-A
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	68	PASI-C
		SM 2320B	AES	1	PASI-A
		SM 5210B	SDH	1	PASI-A
		EPA 300.0	SAE	1	PASI-A
		SM 4500-Cl-E	JDA	1	PASI-A
		SM 5310B	SAE	1	PASI-A

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ANALYTICAL RESULTS

Project: SURRY CLOSED - MT AIRY (UIC)
Pace Project No.: 92119680

Sample: MW-1 **Lab ID: 92119680001** Collected: 05/30/12 10:15 Received: 05/31/12 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010		Preparation Method: EPA 3010						
Antimony	ND	ug/L	6.0	5.0	1	06/01/12 10:00	06/02/12 00:50	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	06/01/12 10:00	06/02/12 14:15	7440-38-2	
Barium	**22.2J**	ug/L	100	5.0	1	06/01/12 10:00	06/02/12 00:50	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	06/01/12 10:00	06/02/12 00:50	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	06/01/12 10:00	06/02/12 00:50	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	06/01/12 10:00	06/02/12 00:50	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	06/01/12 10:00	06/02/12 00:50	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	06/01/12 10:00	06/02/12 00:50	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	06/01/12 10:00	06/02/12 00:50	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	06/01/12 10:00	06/02/12 00:50	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	06/01/12 10:00	06/02/12 00:50	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	06/01/12 10:00	06/02/12 00:50	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	06/01/12 10:00	06/02/12 00:50	7440-28-0	
Tin	ND	ug/L	100	5.0	1	06/01/12 10:00	06/02/12 00:50	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	06/01/12 10:00	06/02/12 00:50	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	06/01/12 10:00	06/02/12 00:50	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470		Preparation Method: EPA 7470						
Mercury	ND	ug/L	0.20	0.10	1	06/01/12 12:10	06/02/12 11:56	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		06/03/12 19:29	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		06/03/12 19:29	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		06/03/12 19:29	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		06/03/12 19:29	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		06/03/12 19:29	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		06/03/12 19:29	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		06/03/12 19:29	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		06/03/12 19:29	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		06/03/12 19:29	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		06/03/12 19:29	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		06/03/12 19:29	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		06/03/12 19:29	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		06/03/12 19:29	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		06/03/12 19:29	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		06/03/12 19:29	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		06/03/12 19:29	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		06/03/12 19:29	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		06/03/12 19:29	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		06/03/12 19:29	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		06/03/12 19:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		06/03/12 19:29	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		06/03/12 19:29	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		06/03/12 19:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		06/03/12 19:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		06/03/12 19:29	106-46-7	

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ANALYTICAL RESULTS

Project: SURRY CLOSED - MT AIRY (UIC)
Pace Project No.: 92119680

Sample: MW-1 **Lab ID: 92119680001** Collected: 05/30/12 10:15 Received: 05/31/12 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		06/03/12 19:29	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		06/03/12 19:29	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		06/03/12 19:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		06/03/12 19:29	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		06/03/12 19:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		06/03/12 19:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		06/03/12 19:29	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		06/03/12 19:29	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		06/03/12 19:29	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		06/03/12 19:29	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		06/03/12 19:29	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		06/03/12 19:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		06/03/12 19:29	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		06/03/12 19:29	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		06/03/12 19:29	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		06/03/12 19:29	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		06/03/12 19:29	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		06/03/12 19:29	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		06/03/12 19:29	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		06/03/12 19:29	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		06/03/12 19:29	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		06/03/12 19:29	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		06/03/12 19:29	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		06/03/12 19:29	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		06/03/12 19:29	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		06/03/12 19:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		06/03/12 19:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		06/03/12 19:29	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		06/03/12 19:29	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		06/03/12 19:29	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		06/03/12 19:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		06/03/12 19:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		06/03/12 19:29	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		06/03/12 19:29	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		06/03/12 19:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		06/03/12 19:29	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		06/03/12 19:29	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		06/03/12 19:29	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		06/03/12 19:29	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		06/03/12 19:29	460-00-4	
Dibromofluoromethane (S)	111	%	70-130		1		06/03/12 19:29	1868-53-7	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		06/03/12 19:29	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		06/03/12 19:29	2037-26-5	

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ANALYTICAL RESULTS

Project: SURRY CLOSED - MT AIRY (UIC)
Pace Project No.: 92119680

Sample: MW-1 **Lab ID: 92119680001** Collected: 05/30/12 10:15 Received: 05/31/12 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**69800**	ug/L	1000	1000	1		06/06/12 16:40		
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	ND	ug/L	2000	2000	1	06/01/12 09:55	06/06/12 09:45		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**7710J**	ug/L	250000	2000	1		06/01/12 19:49	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**3560**	ug/L	1000	1000	1		06/12/12 13:59	16887-00-6	
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	ND	ug/L	1000	1000	1		06/12/12 17:02	7440-44-0	

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ANALYTICAL RESULTS

Project: SURRY CLOSED - MT AIRY (UIC)
Pace Project No.: 92119680

Sample: MW-3R **Lab ID: 92119680002** Collected: 05/30/12 15:05 Received: 05/31/12 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010		Preparation Method: EPA 3010						
Antimony	ND	ug/L	6.0	5.0	1	06/01/12 10:00	06/02/12 01:06	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	06/01/12 10:00	06/02/12 01:06	7440-38-2	
Barium	ND	ug/L	100	5.0	1	06/01/12 10:00	06/02/12 01:06	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	06/01/12 10:00	06/02/12 01:06	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	06/01/12 10:00	06/02/12 01:06	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	06/01/12 10:00	06/02/12 01:06	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	06/01/12 10:00	06/02/12 01:06	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	06/01/12 10:00	06/02/12 01:06	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	06/01/12 10:00	06/02/12 01:06	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	06/01/12 10:00	06/02/12 01:06	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	06/01/12 10:00	06/02/12 01:06	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	06/01/12 10:00	06/02/12 01:06	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	06/01/12 10:00	06/02/12 01:06	7440-28-0	
Tin	ND	ug/L	100	5.0	1	06/01/12 10:00	06/02/12 01:06	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	06/01/12 10:00	06/02/12 01:06	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	06/01/12 10:00	06/02/12 01:06	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470		Preparation Method: EPA 7470						
Mercury	ND	ug/L	0.20	0.10	1	06/01/12 12:10	06/02/12 11:58	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		06/03/12 19:45	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		06/03/12 19:45	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		06/03/12 19:45	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		06/03/12 19:45	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		06/03/12 19:45	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		06/03/12 19:45	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		06/03/12 19:45	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		06/03/12 19:45	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		06/03/12 19:45	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		06/03/12 19:45	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		06/03/12 19:45	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		06/03/12 19:45	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		06/03/12 19:45	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		06/03/12 19:45	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		06/03/12 19:45	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		06/03/12 19:45	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		06/03/12 19:45	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		06/03/12 19:45	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		06/03/12 19:45	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		06/03/12 19:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		06/03/12 19:45	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		06/03/12 19:45	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		06/03/12 19:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		06/03/12 19:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		06/03/12 19:45	106-46-7	

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ANALYTICAL RESULTS

Project: SURRY CLOSED - MT AIRY (UIC)
Pace Project No.: 92119680

Sample: MW-3R **Lab ID: 92119680002** Collected: 05/30/12 15:05 Received: 05/31/12 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		06/03/12 19:45	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		06/03/12 19:45	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		06/03/12 19:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		06/03/12 19:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		06/03/12 19:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		06/03/12 19:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		06/03/12 19:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		06/03/12 19:45	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		06/03/12 19:45	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		06/03/12 19:45	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		06/03/12 19:45	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		06/03/12 19:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		06/03/12 19:45	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		06/03/12 19:45	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		06/03/12 19:45	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		06/03/12 19:45	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		06/03/12 19:45	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		06/03/12 19:45	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		06/03/12 19:45	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		06/03/12 19:45	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		06/03/12 19:45	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		06/03/12 19:45	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		06/03/12 19:45	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		06/03/12 19:45	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		06/03/12 19:45	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		06/03/12 19:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		06/03/12 19:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		06/03/12 19:45	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		06/03/12 19:45	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		06/03/12 19:45	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		06/03/12 19:45	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		06/03/12 19:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		06/03/12 19:45	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		06/03/12 19:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		06/03/12 19:45	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		06/03/12 19:45	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		06/03/12 19:45	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		06/03/12 19:45	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		06/03/12 19:45	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		06/03/12 19:45	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		06/03/12 19:45	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		06/03/12 19:45	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		06/03/12 19:45	2037-26-5	

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ANALYTICAL RESULTS

Project: SURRY CLOSED - MT AIRY (UIC)
Pace Project No.: 92119680

Sample: MW-3R **Lab ID: 92119680002** Collected: 05/30/12 15:05 Received: 05/31/12 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**94600**	ug/L	1000	1000	1		06/06/12 16:40		
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	ND	ug/L	2000	2000	1	06/01/12 09:55	06/06/12 09:45		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**4960J**	ug/L	250000	2000	1		06/01/12 20:02	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**2780**	ug/L	1000	1000	1		06/08/12 09:08	16887-00-6	
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	ND	ug/L	1000	1000	1		06/12/12 17:24	7440-44-0	

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ANALYTICAL RESULTS

Project: SURRY CLOSED - MT AIRY (UIC)
Pace Project No.: 92119680

Sample: MW-12S **Lab ID: 92119680003** Collected: 05/30/12 13:35 Received: 05/31/12 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	06/01/12 10:00	06/02/12 01:10	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	06/01/12 10:00	06/02/12 01:10	7440-38-2	
Barium	**20.4J**	ug/L	100	5.0	1	06/01/12 10:00	06/02/12 01:10	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	06/01/12 10:00	06/02/12 01:10	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	06/01/12 10:00	06/02/12 01:10	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	06/01/12 10:00	06/02/12 01:10	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	06/01/12 10:00	06/02/12 01:10	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	06/01/12 10:00	06/02/12 01:10	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	06/01/12 10:00	06/02/12 01:10	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	06/01/12 10:00	06/02/12 01:10	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	06/01/12 10:00	06/02/12 01:10	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	06/01/12 10:00	06/02/12 01:10	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	06/01/12 10:00	06/02/12 01:10	7440-28-0	
Tin	ND	ug/L	100	5.0	1	06/01/12 10:00	06/02/12 01:10	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	06/01/12 10:00	06/02/12 01:10	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	06/01/12 10:00	06/02/12 01:10	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	06/01/12 12:10	06/02/12 12:01	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		06/03/12 20:00	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		06/03/12 20:00	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		06/03/12 20:00	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		06/03/12 20:00	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		06/03/12 20:00	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		06/03/12 20:00	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		06/03/12 20:00	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		06/03/12 20:00	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		06/03/12 20:00	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		06/03/12 20:00	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		06/03/12 20:00	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		06/03/12 20:00	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		06/03/12 20:00	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		06/03/12 20:00	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		06/03/12 20:00	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		06/03/12 20:00	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		06/03/12 20:00	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		06/03/12 20:00	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		06/03/12 20:00	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		06/03/12 20:00	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		06/03/12 20:00	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		06/03/12 20:00	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		06/03/12 20:00	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		06/03/12 20:00	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		06/03/12 20:00	106-46-7	

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ANALYTICAL RESULTS

Project: SURRY CLOSED - MT AIRY (UIC)
Pace Project No.: 92119680

Sample: MW-12S **Lab ID: 92119680003** Collected: 05/30/12 13:35 Received: 05/31/12 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		06/03/12 20:00	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		06/03/12 20:00	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		06/03/12 20:00	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		06/03/12 20:00	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		06/03/12 20:00	75-35-4	
cis-1,2-Dichloroethene	**0.95J**	ug/L	5.0	0.19	1		06/03/12 20:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		06/03/12 20:00	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		06/03/12 20:00	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		06/03/12 20:00	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		06/03/12 20:00	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		06/03/12 20:00	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		06/03/12 20:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		06/03/12 20:00	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		06/03/12 20:00	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		06/03/12 20:00	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		06/03/12 20:00	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		06/03/12 20:00	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		06/03/12 20:00	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		06/03/12 20:00	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		06/03/12 20:00	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		06/03/12 20:00	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		06/03/12 20:00	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		06/03/12 20:00	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		06/03/12 20:00	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		06/03/12 20:00	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		06/03/12 20:00	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		06/03/12 20:00	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		06/03/12 20:00	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		06/03/12 20:00	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		06/03/12 20:00	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		06/03/12 20:00	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		06/03/12 20:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		06/03/12 20:00	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		06/03/12 20:00	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		06/03/12 20:00	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		06/03/12 20:00	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		06/03/12 20:00	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		06/03/12 20:00	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		06/03/12 20:00	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		06/03/12 20:00	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		06/03/12 20:00	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		06/03/12 20:00	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		06/03/12 20:00	2037-26-5	

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ANALYTICAL RESULTS

Project: SURRY CLOSED - MT AIRY (UIC)
Pace Project No.: 92119680

Sample: MW-12S **Lab ID: 92119680003** Collected: 05/30/12 13:35 Received: 05/31/12 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**76800**	ug/L	1000	1000	1		06/06/12 16:40		
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	ND	ug/L	2000	2000	1	06/01/12 09:55	06/06/12 09:45		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**44900J**	ug/L	1250000	10000	5		06/04/12 15:43	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**4650**	ug/L	1000	1000	1		06/08/12 09:10	16887-00-6	
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**15200**	ug/L	1000	1000	1		06/12/12 17:45	7440-44-0	

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ANALYTICAL RESULTS

Project: SURRY CLOSED - MT AIRY (UIC)
Pace Project No.: 92119680

Sample: MW-12D **Lab ID: 92119680004** Collected: 05/30/12 12:00 Received: 05/31/12 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010		Preparation Method: EPA 3010						
Antimony	ND	ug/L	6.0	5.0	1	06/01/12 10:00	06/02/12 01:13	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	06/01/12 10:00	06/02/12 01:13	7440-38-2	
Barium	**9.4J**	ug/L	100	5.0	1	06/01/12 10:00	06/02/12 01:13	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	06/01/12 10:00	06/02/12 01:13	7440-41-7	
Cadmium	**2.5**	ug/L	1.0	1.0	1	06/01/12 10:00	06/02/12 01:13	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	06/01/12 10:00	06/02/12 01:13	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	06/01/12 10:00	06/02/12 01:13	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	06/01/12 10:00	06/02/12 01:13	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	06/01/12 10:00	06/02/12 01:13	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	06/01/12 10:00	06/02/12 01:13	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	06/01/12 10:00	06/02/12 01:13	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	06/01/12 10:00	06/02/12 01:13	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	06/01/12 10:00	06/02/12 01:13	7440-28-0	
Tin	ND	ug/L	100	5.0	1	06/01/12 10:00	06/02/12 01:13	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	06/01/12 10:00	06/02/12 01:13	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	06/01/12 10:00	06/02/12 01:13	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470		Preparation Method: EPA 7470						
Mercury	ND	ug/L	0.20	0.10	1	06/01/12 12:10	06/02/12 12:04	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		06/03/12 20:16	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		06/03/12 20:16	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		06/03/12 20:16	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		06/03/12 20:16	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		06/03/12 20:16	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		06/03/12 20:16	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		06/03/12 20:16	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		06/03/12 20:16	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		06/03/12 20:16	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		06/03/12 20:16	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		06/03/12 20:16	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		06/03/12 20:16	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		06/03/12 20:16	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		06/03/12 20:16	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		06/03/12 20:16	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		06/03/12 20:16	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		06/03/12 20:16	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		06/03/12 20:16	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		06/03/12 20:16	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		06/03/12 20:16	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		06/03/12 20:16	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		06/03/12 20:16	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		06/03/12 20:16	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		06/03/12 20:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		06/03/12 20:16	106-46-7	

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ANALYTICAL RESULTS

Project: SURRY CLOSED - MT AIRY (UIC)
Pace Project No.: 92119680

Sample: MW-12D **Lab ID: 92119680004** Collected: 05/30/12 12:00 Received: 05/31/12 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		06/03/12 20:16	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		06/03/12 20:16	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		06/03/12 20:16	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		06/03/12 20:16	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		06/03/12 20:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		06/03/12 20:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		06/03/12 20:16	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		06/03/12 20:16	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		06/03/12 20:16	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		06/03/12 20:16	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		06/03/12 20:16	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		06/03/12 20:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		06/03/12 20:16	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		06/03/12 20:16	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		06/03/12 20:16	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		06/03/12 20:16	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		06/03/12 20:16	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		06/03/12 20:16	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		06/03/12 20:16	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		06/03/12 20:16	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		06/03/12 20:16	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		06/03/12 20:16	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		06/03/12 20:16	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		06/03/12 20:16	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		06/03/12 20:16	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		06/03/12 20:16	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		06/03/12 20:16	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		06/03/12 20:16	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		06/03/12 20:16	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		06/03/12 20:16	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		06/03/12 20:16	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		06/03/12 20:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		06/03/12 20:16	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		06/03/12 20:16	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		06/03/12 20:16	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		06/03/12 20:16	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		06/03/12 20:16	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		06/03/12 20:16	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		06/03/12 20:16	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		06/03/12 20:16	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		06/03/12 20:16	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		06/03/12 20:16	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		06/03/12 20:16	2037-26-5	

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ANALYTICAL RESULTS

Project: SURRY CLOSED - MT AIRY (UIC)
Pace Project No.: 92119680

Sample: MW-12D **Lab ID: 92119680004** Collected: 05/30/12 12:00 Received: 05/31/12 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**79800**	ug/L	1000	1000	1		06/06/12 16:40		
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	**7200**	ug/L	2000	2000	1	06/01/12 09:55	06/06/12 09:45		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**8540J**	ug/L	250000	2000	1		06/09/12 01:11	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**1110**	ug/L	1000	1000	1		06/08/12 09:11	16887-00-6	
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	ND	ug/L	1000	1000	1		06/12/12 17:55	7440-44-0	

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ANALYTICAL RESULTS

Project: SURRY CLOSED - MT AIRY (UIC)
Pace Project No.: 92119680

Sample: MW-13 **Lab ID: 92119680005** Collected: 05/30/12 17:00 Received: 05/31/12 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010		Preparation Method: EPA 3010						
Antimony	ND	ug/L	6.0	5.0	1	06/01/12 10:00	06/02/12 01:16	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	06/01/12 10:00	06/02/12 01:16	7440-38-2	
Barium	**67.0J**	ug/L	100	5.0	1	06/01/12 10:00	06/02/12 01:16	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	06/01/12 10:00	06/02/12 01:16	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	06/01/12 10:00	06/02/12 01:16	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	06/01/12 10:00	06/02/12 01:16	7440-47-3	
Cobalt	**9.3J**	ug/L	10.0	5.0	1	06/01/12 10:00	06/02/12 01:16	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	06/01/12 10:00	06/02/12 01:16	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	06/01/12 10:00	06/02/12 01:16	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	06/01/12 10:00	06/02/12 01:16	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	06/01/12 10:00	06/02/12 01:16	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	06/01/12 10:00	06/02/12 01:16	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	06/01/12 10:00	06/02/12 01:16	7440-28-0	
Tin	ND	ug/L	100	5.0	1	06/01/12 10:00	06/02/12 01:16	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	06/01/12 10:00	06/02/12 01:16	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	06/01/12 10:00	06/02/12 01:16	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470		Preparation Method: EPA 7470						
Mercury	ND	ug/L	0.20	0.10	1	06/01/12 12:10	06/02/12 12:06	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		06/03/12 20:32	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		06/03/12 20:32	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		06/03/12 20:32	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		06/03/12 20:32	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		06/03/12 20:32	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		06/03/12 20:32	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		06/03/12 20:32	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		06/03/12 20:32	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		06/03/12 20:32	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		06/03/12 20:32	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		06/03/12 20:32	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		06/03/12 20:32	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		06/03/12 20:32	56-23-5	
Chlorobenzene	**2.1J**	ug/L	3.0	0.23	1		06/03/12 20:32	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		06/03/12 20:32	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		06/03/12 20:32	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		06/03/12 20:32	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		06/03/12 20:32	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		06/03/12 20:32	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		06/03/12 20:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		06/03/12 20:32	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		06/03/12 20:32	74-95-3	
1,2-Dichlorobenzene	**0.50J**	ug/L	5.0	0.30	1		06/03/12 20:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		06/03/12 20:32	541-73-1	
1,4-Dichlorobenzene	**2.0**	ug/L	1.0	0.33	1		06/03/12 20:32	106-46-7	

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ANALYTICAL RESULTS

Project: SURRY CLOSED - MT AIRY (UIC)
Pace Project No.: 92119680

Sample: MW-13 **Lab ID: 92119680005** Collected: 05/30/12 17:00 Received: 05/31/12 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		06/03/12 20:32	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		06/03/12 20:32	75-71-8	
1,1-Dichloroethane	**7.6**	ug/L	5.0	0.32	1		06/03/12 20:32	75-34-3	
1,2-Dichloroethane	**0.81J**	ug/L	1.0	0.12	1		06/03/12 20:32	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		06/03/12 20:32	75-35-4	
cis-1,2-Dichloroethene	**26.9**	ug/L	5.0	0.19	1		06/03/12 20:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		06/03/12 20:32	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		06/03/12 20:32	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		06/03/12 20:32	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		06/03/12 20:32	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		06/03/12 20:32	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		06/03/12 20:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		06/03/12 20:32	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		06/03/12 20:32	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		06/03/12 20:32	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		06/03/12 20:32	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		06/03/12 20:32	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		06/03/12 20:32	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		06/03/12 20:32	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		06/03/12 20:32	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		06/03/12 20:32	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		06/03/12 20:32	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		06/03/12 20:32	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		06/03/12 20:32	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		06/03/12 20:32	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		06/03/12 20:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		06/03/12 20:32	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		06/03/12 20:32	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		06/03/12 20:32	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		06/03/12 20:32	108-88-3	
1,2,4-Trichlorobenzene	**0.40J**	ug/L	10.0	0.35	1		06/03/12 20:32	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		06/03/12 20:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		06/03/12 20:32	79-00-5	
Trichloroethene	**1.1**	ug/L	1.0	0.47	1		06/03/12 20:32	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		06/03/12 20:32	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		06/03/12 20:32	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		06/03/12 20:32	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		06/03/12 20:32	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		06/03/12 20:32	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		06/03/12 20:32	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		06/03/12 20:32	1868-53-7	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		06/03/12 20:32	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		06/03/12 20:32	2037-26-5	

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ANALYTICAL RESULTS

Project: SURRY CLOSED - MT AIRY (UIC)
Pace Project No.: 92119680

Sample: MW-13 **Lab ID: 92119680005** Collected: 05/30/12 17:00 Received: 05/31/12 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**57700**	ug/L	1000	1000	1		06/06/12 16:40		
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	ND	ug/L	2000	2000	1	06/01/12 14:41	06/06/12 11:16		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**2680J**	ug/L	250000	2000	1		06/09/12 01:25	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**34200**	ug/L	1000	1000	1		06/08/12 09:11	16887-00-6	
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**2430**	ug/L	1000	1000	1		06/12/12 18:07	7440-44-0	

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ANALYTICAL RESULTS

Project: SURRY CLOSED - MT AIRY (UIC)
Pace Project No.: 92119680

Sample: MW-16 **Lab ID: 92119680006** Collected: 05/30/12 17:40 Received: 05/31/12 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010		Preparation Method: EPA 3010						
Antimony	ND	ug/L	6.0	5.0	1	06/01/12 10:00	06/02/12 01:20	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	06/01/12 10:00	06/02/12 01:20	7440-38-2	
Barium	**45.8J**	ug/L	100	5.0	1	06/01/12 10:00	06/02/12 01:20	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	06/01/12 10:00	06/02/12 01:20	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	06/01/12 10:00	06/02/12 01:20	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	06/01/12 10:00	06/02/12 01:20	7440-47-3	
Cobalt	**58.8**	ug/L	10.0	5.0	1	06/01/12 10:00	06/02/12 01:20	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	06/01/12 10:00	06/02/12 01:20	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	06/01/12 10:00	06/02/12 01:20	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	06/01/12 10:00	06/02/12 01:20	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	06/01/12 10:00	06/02/12 01:20	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	06/01/12 10:00	06/02/12 01:20	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	06/01/12 10:00	06/02/12 01:20	7440-28-0	
Tin	ND	ug/L	100	5.0	1	06/01/12 10:00	06/02/12 01:20	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	06/01/12 10:00	06/02/12 01:20	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	06/01/12 10:00	06/02/12 01:20	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470		Preparation Method: EPA 7470						
Mercury	ND	ug/L	0.20	0.10	1	06/01/12 12:10	06/02/12 12:09	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		06/03/12 20:47	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		06/03/12 20:47	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		06/03/12 20:47	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		06/03/12 20:47	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		06/03/12 20:47	107-05-1	
Benzene	**1.2**	ug/L	1.0	0.25	1		06/03/12 20:47	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		06/03/12 20:47	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		06/03/12 20:47	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		06/03/12 20:47	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		06/03/12 20:47	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		06/03/12 20:47	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		06/03/12 20:47	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		06/03/12 20:47	56-23-5	
Chlorobenzene	**4.3**	ug/L	3.0	0.23	1		06/03/12 20:47	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		06/03/12 20:47	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		06/03/12 20:47	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		06/03/12 20:47	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		06/03/12 20:47	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		06/03/12 20:47	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		06/03/12 20:47	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		06/03/12 20:47	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		06/03/12 20:47	74-95-3	
1,2-Dichlorobenzene	**1.5J**	ug/L	5.0	0.30	1		06/03/12 20:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		06/03/12 20:47	541-73-1	
1,4-Dichlorobenzene	**13.6**	ug/L	1.0	0.33	1		06/03/12 20:47	106-46-7	

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ANALYTICAL RESULTS

Project: SURRY CLOSED - MT AIRY (UIC)
Pace Project No.: 92119680

Sample: MW-16 **Lab ID: 92119680006** Collected: 05/30/12 17:40 Received: 05/31/12 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		06/03/12 20:47	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		06/03/12 20:47	75-71-8	
1,1-Dichloroethane	**3.0J**	ug/L	5.0	0.32	1		06/03/12 20:47	75-34-3	
1,2-Dichloroethane	**1.8**	ug/L	1.0	0.12	1		06/03/12 20:47	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		06/03/12 20:47	75-35-4	
cis-1,2-Dichloroethene	**38.7**	ug/L	5.0	0.19	1		06/03/12 20:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		06/03/12 20:47	156-60-5	
1,2-Dichloropropane	**3.6**	ug/L	1.0	0.27	1		06/03/12 20:47	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		06/03/12 20:47	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		06/03/12 20:47	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		06/03/12 20:47	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		06/03/12 20:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		06/03/12 20:47	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		06/03/12 20:47	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		06/03/12 20:47	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		06/03/12 20:47	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		06/03/12 20:47	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		06/03/12 20:47	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		06/03/12 20:47	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		06/03/12 20:47	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		06/03/12 20:47	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		06/03/12 20:47	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		06/03/12 20:47	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		06/03/12 20:47	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		06/03/12 20:47	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		06/03/12 20:47	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		06/03/12 20:47	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		06/03/12 20:47	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		06/03/12 20:47	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		06/03/12 20:47	108-88-3	
1,2,4-Trichlorobenzene	**0.57J**	ug/L	10.0	0.35	1		06/03/12 20:47	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		06/03/12 20:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		06/03/12 20:47	79-00-5	
Trichloroethene	**1.5**	ug/L	1.0	0.47	1		06/03/12 20:47	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		06/03/12 20:47	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		06/03/12 20:47	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		06/03/12 20:47	108-05-4	
Vinyl chloride	**3.9**	ug/L	1.0	0.62	1		06/03/12 20:47	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		06/03/12 20:47	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		06/03/12 20:47	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		06/03/12 20:47	1868-53-7	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		06/03/12 20:47	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		06/03/12 20:47	2037-26-5	

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ANALYTICAL RESULTS

Project: SURRY CLOSED - MT AIRY (UIC)
Pace Project No.: 92119680

Sample: MW-16 **Lab ID: 92119680006** Collected: 05/30/12 17:40 Received: 05/31/12 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**114000**	ug/L	1000	1000	1		06/06/12 16:40		
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	ND	ug/L	2000	2000	1	06/01/12 14:41	06/06/12 11:16		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**5000J**	ug/L	250000	2000	1		06/09/12 01:38	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**18800**	ug/L	1000	1000	1		06/08/12 09:12	16887-00-6	
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**3220**	ug/L	1000	1000	1		06/12/12 18:19	7440-44-0	

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ANALYTICAL RESULTS

Project: SURRY CLOSED - MT AIRY (UIC)
Pace Project No.: 92119680

Sample: MW-18 **Lab ID: 92119680007** Collected: 05/30/12 11:00 Received: 05/31/12 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	06/01/12 10:00	06/02/12 01:23	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	06/01/12 10:00	06/02/12 01:23	7440-38-2	
Barium	**10.5J**	ug/L	100	5.0	1	06/01/12 10:00	06/02/12 01:23	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	06/01/12 10:00	06/02/12 01:23	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	06/01/12 10:00	06/02/12 01:23	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	06/01/12 10:00	06/02/12 01:23	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	06/01/12 10:00	06/02/12 01:23	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	06/01/12 10:00	06/02/12 01:23	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	06/01/12 10:00	06/02/12 01:23	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	06/01/12 10:00	06/02/12 01:23	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	06/01/12 10:00	06/02/12 01:23	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	06/01/12 10:00	06/02/12 01:23	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	06/01/12 10:00	06/02/12 01:23	7440-28-0	
Tin	ND	ug/L	100	5.0	1	06/01/12 10:00	06/02/12 01:23	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	06/01/12 10:00	06/02/12 01:23	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	06/01/12 10:00	06/02/12 01:23	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	06/01/12 12:10	06/02/12 12:17	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		06/03/12 21:03	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		06/03/12 21:03	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		06/03/12 21:03	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		06/03/12 21:03	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		06/03/12 21:03	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		06/03/12 21:03	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		06/03/12 21:03	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		06/03/12 21:03	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		06/03/12 21:03	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		06/03/12 21:03	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		06/03/12 21:03	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		06/03/12 21:03	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		06/03/12 21:03	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		06/03/12 21:03	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		06/03/12 21:03	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		06/03/12 21:03	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		06/03/12 21:03	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		06/03/12 21:03	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		06/03/12 21:03	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		06/03/12 21:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		06/03/12 21:03	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		06/03/12 21:03	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		06/03/12 21:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		06/03/12 21:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		06/03/12 21:03	106-46-7	

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ANALYTICAL RESULTS

Project: SURRY CLOSED - MT AIRY (UIC)
Pace Project No.: 92119680

Sample: MW-18 **Lab ID: 92119680007** Collected: 05/30/12 11:00 Received: 05/31/12 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		06/03/12 21:03	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		06/03/12 21:03	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		06/03/12 21:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		06/03/12 21:03	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		06/03/12 21:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		06/03/12 21:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		06/03/12 21:03	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		06/03/12 21:03	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		06/03/12 21:03	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		06/03/12 21:03	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		06/03/12 21:03	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		06/03/12 21:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		06/03/12 21:03	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		06/03/12 21:03	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		06/03/12 21:03	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		06/03/12 21:03	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		06/03/12 21:03	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		06/03/12 21:03	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		06/03/12 21:03	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		06/03/12 21:03	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		06/03/12 21:03	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		06/03/12 21:03	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		06/03/12 21:03	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		06/03/12 21:03	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		06/03/12 21:03	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		06/03/12 21:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		06/03/12 21:03	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		06/03/12 21:03	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		06/03/12 21:03	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		06/03/12 21:03	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		06/03/12 21:03	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		06/03/12 21:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		06/03/12 21:03	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		06/03/12 21:03	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		06/03/12 21:03	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		06/03/12 21:03	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		06/03/12 21:03	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		06/03/12 21:03	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		06/03/12 21:03	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		06/03/12 21:03	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		06/03/12 21:03	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		06/03/12 21:03	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		06/03/12 21:03	2037-26-5	

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ANALYTICAL RESULTS

Project: SURRY CLOSED - MT AIRY (UIC)
Pace Project No.: 92119680

Sample: MW-18 **Lab ID: 92119680007** Collected: 05/30/12 11:00 Received: 05/31/12 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**7250**	ug/L	1000	1000	1		06/06/12 16:40		
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	ND	ug/L	2000	2000	1	06/01/12 09:55	06/06/12 09:45		B2
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	ND	ug/L	250000	2000	1		06/09/12 01:52	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**1400**	ug/L	1000	1000	1		06/08/12 09:22	16887-00-6	
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	ND	ug/L	1000	1000	1		06/12/12 18:29	7440-44-0	

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ANALYTICAL RESULTS

Project: SURRY CLOSED - MT AIRY (UIC)
Pace Project No.: 92119680

Sample: MW-19 **Lab ID: 92119680008** Collected: 05/30/12 14:05 Received: 05/31/12 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010		Preparation Method: EPA 3010						
Antimony	ND	ug/L	6.0	5.0	1	06/01/12 10:00	06/02/12 01:27	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	06/01/12 10:00	06/02/12 01:27	7440-38-2	
Barium	**39.7J**	ug/L	100	5.0	1	06/01/12 10:00	06/02/12 01:27	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	06/01/12 10:00	06/02/12 01:27	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	06/01/12 10:00	06/02/12 01:27	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	06/01/12 10:00	06/02/12 01:27	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	06/01/12 10:00	06/02/12 01:27	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	06/01/12 10:00	06/02/12 01:27	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	06/01/12 10:00	06/02/12 01:27	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	06/01/12 10:00	06/02/12 01:27	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	06/01/12 10:00	06/02/12 01:27	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	06/01/12 10:00	06/02/12 01:27	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	06/01/12 10:00	06/02/12 01:27	7440-28-0	
Tin	ND	ug/L	100	5.0	1	06/01/12 10:00	06/02/12 01:27	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	06/01/12 10:00	06/02/12 01:27	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	06/01/12 10:00	06/02/12 01:27	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470		Preparation Method: EPA 7470						
Mercury	ND	ug/L	0.20	0.10	1	06/01/12 12:10	06/02/12 12:20	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		06/05/12 03:23	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		06/05/12 03:23	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		06/05/12 03:23	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		06/05/12 03:23	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		06/05/12 03:23	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		06/05/12 03:23	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		06/05/12 03:23	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		06/05/12 03:23	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		06/05/12 03:23	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		06/05/12 03:23	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		06/05/12 03:23	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		06/05/12 03:23	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		06/05/12 03:23	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		06/05/12 03:23	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		06/05/12 03:23	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		06/05/12 03:23	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		06/05/12 03:23	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		06/05/12 03:23	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		06/05/12 03:23	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		06/05/12 03:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		06/05/12 03:23	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		06/05/12 03:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		06/05/12 03:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		06/05/12 03:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		06/05/12 03:23	106-46-7	

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ANALYTICAL RESULTS

Project: SURRY CLOSED - MT AIRY (UIC)
Pace Project No.: 92119680

Sample: MW-19 **Lab ID: 92119680008** Collected: 05/30/12 14:05 Received: 05/31/12 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		06/05/12 03:23	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		06/05/12 03:23	75-71-8	
1,1-Dichloroethane	**1.6J**	ug/L	5.0	0.32	1		06/05/12 03:23	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		06/05/12 03:23	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		06/05/12 03:23	75-35-4	
cis-1,2-Dichloroethene	**2.0J**	ug/L	5.0	0.19	1		06/05/12 03:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		06/05/12 03:23	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		06/05/12 03:23	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		06/05/12 03:23	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		06/05/12 03:23	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		06/05/12 03:23	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		06/05/12 03:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		06/05/12 03:23	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		06/05/12 03:23	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		06/05/12 03:23	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		06/05/12 03:23	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		06/05/12 03:23	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		06/05/12 03:23	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		06/05/12 03:23	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		06/05/12 03:23	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		06/05/12 03:23	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		06/05/12 03:23	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		06/05/12 03:23	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		06/05/12 03:23	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		06/05/12 03:23	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		06/05/12 03:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		06/05/12 03:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		06/05/12 03:23	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		06/05/12 03:23	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		06/05/12 03:23	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		06/05/12 03:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		06/05/12 03:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		06/05/12 03:23	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		06/05/12 03:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		06/05/12 03:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		06/05/12 03:23	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		06/05/12 03:23	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		06/05/12 03:23	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		06/05/12 03:23	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		06/05/12 03:23	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		06/05/12 03:23	1868-53-7	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		06/05/12 03:23	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		06/05/12 03:23	2037-26-5	

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ANALYTICAL RESULTS

Project: SURRY CLOSED - MT AIRY (UIC)
Pace Project No.: 92119680

Sample: MW-19 **Lab ID: 92119680008** Collected: 05/30/12 14:05 Received: 05/31/12 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**16500**	ug/L	1000	1000	1		06/06/12 16:40		
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	ND	ug/L	2000	2000	1	06/01/12 09:55	06/06/12 09:45		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**2190J**	ug/L	250000	2000	1		06/09/12 02:33	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**2510**	ug/L	1000	1000	1		06/08/12 09:23	16887-00-6	
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	ND	ug/L	1000	1000	1		06/12/12 18:41	7440-44-0	

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ANALYTICAL RESULTS

Project: SURRY CLOSED - MT AIRY (UIC)
Pace Project No.: 92119680

Sample: MW-15 **Lab ID: 92119680009** Collected: 05/30/12 16:05 Received: 05/31/12 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010		Preparation Method: EPA 3010						
Antimony	ND	ug/L	6.0	5.0	1	06/01/12 10:00	06/02/12 01:30	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	06/01/12 10:00	06/02/12 01:30	7440-38-2	
Barium	**35.8J**	ug/L	100	5.0	1	06/01/12 10:00	06/02/12 01:30	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	06/01/12 10:00	06/02/12 01:30	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	06/01/12 10:00	06/02/12 01:30	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	06/01/12 10:00	06/02/12 01:30	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	06/01/12 10:00	06/02/12 01:30	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	06/01/12 10:00	06/02/12 01:30	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	06/01/12 10:00	06/02/12 01:30	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	06/01/12 10:00	06/02/12 01:30	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	06/01/12 10:00	06/02/12 01:30	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	06/01/12 10:00	06/02/12 01:30	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	06/01/12 10:00	06/02/12 01:30	7440-28-0	
Tin	ND	ug/L	100	5.0	1	06/01/12 10:00	06/02/12 01:30	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	06/01/12 10:00	06/02/12 01:30	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	06/01/12 10:00	06/02/12 01:30	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470		Preparation Method: EPA 7470						
Mercury	ND	ug/L	0.20	0.10	1	06/01/12 12:10	06/02/12 12:22	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		06/03/12 21:34	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		06/03/12 21:34	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		06/03/12 21:34	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		06/03/12 21:34	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		06/03/12 21:34	107-05-1	
Benzene	**2.3**	ug/L	1.0	0.25	1		06/03/12 21:34	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		06/03/12 21:34	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		06/03/12 21:34	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		06/03/12 21:34	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		06/03/12 21:34	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		06/03/12 21:34	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		06/03/12 21:34	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		06/03/12 21:34	56-23-5	
Chlorobenzene	**2.4J**	ug/L	3.0	0.23	1		06/03/12 21:34	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		06/03/12 21:34	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		06/03/12 21:34	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		06/03/12 21:34	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		06/03/12 21:34	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		06/03/12 21:34	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		06/03/12 21:34	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		06/03/12 21:34	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		06/03/12 21:34	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		06/03/12 21:34	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		06/03/12 21:34	541-73-1	
1,4-Dichlorobenzene	**4.0**	ug/L	1.0	0.33	1		06/03/12 21:34	106-46-7	

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ANALYTICAL RESULTS

Project: SURRY CLOSED - MT AIRY (UIC)
Pace Project No.: 92119680

Sample: MW-15 **Lab ID: 92119680009** Collected: 05/30/12 16:05 Received: 05/31/12 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		06/03/12 21:34	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		06/03/12 21:34	75-71-8	
1,1-Dichloroethane	**23.1**	ug/L	5.0	0.32	1		06/03/12 21:34	75-34-3	
1,2-Dichloroethane	**0.73J**	ug/L	1.0	0.12	1		06/03/12 21:34	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		06/03/12 21:34	75-35-4	
cis-1,2-Dichloroethene	**40.6**	ug/L	5.0	0.19	1		06/03/12 21:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		06/03/12 21:34	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		06/03/12 21:34	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		06/03/12 21:34	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		06/03/12 21:34	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		06/03/12 21:34	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		06/03/12 21:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		06/03/12 21:34	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		06/03/12 21:34	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		06/03/12 21:34	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		06/03/12 21:34	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		06/03/12 21:34	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		06/03/12 21:34	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		06/03/12 21:34	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		06/03/12 21:34	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		06/03/12 21:34	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		06/03/12 21:34	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		06/03/12 21:34	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		06/03/12 21:34	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		06/03/12 21:34	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		06/03/12 21:34	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		06/03/12 21:34	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		06/03/12 21:34	79-34-5	
Tetrachloroethene	**1.5**	ug/L	1.0	0.46	1		06/03/12 21:34	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		06/03/12 21:34	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		06/03/12 21:34	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		06/03/12 21:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		06/03/12 21:34	79-00-5	
Trichloroethene	**4.6**	ug/L	1.0	0.47	1		06/03/12 21:34	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		06/03/12 21:34	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		06/03/12 21:34	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		06/03/12 21:34	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		06/03/12 21:34	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		06/03/12 21:34	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		06/03/12 21:34	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		06/03/12 21:34	1868-53-7	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		06/03/12 21:34	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		06/03/12 21:34	2037-26-5	

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ANALYTICAL RESULTS

Project: SURRY CLOSED - MT AIRY (UIC)
Pace Project No.: 92119680

Sample: MW-15 **Lab ID: 92119680009** Collected: 05/30/12 16:05 Received: 05/31/12 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**54500**	ug/L	1000	1000	1		06/06/12 16:40		
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	ND	ug/L	2000	2000	1	06/01/12 14:41	06/06/12 11:16		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	ND	ug/L	250000	2000	1		06/09/12 02:46	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**1580**	ug/L	1000	1000	1		06/08/12 09:25	16887-00-6	
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	ND	ug/L	1000	1000	1		06/12/12 18:51	7440-44-0	

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QUALITY CONTROL DATA

Project: SURRY CLOSED - MT AIRY (UIC)
Pace Project No.: 92119680

QC Batch: MERP/4263 — Analysis Method: EPA 7470
QC Batch Method: EPA 7470 — Analysis Description: 7470 Mercury
Associated Lab Samples: 92119680001, 92119680002, 92119680003, 92119680004, 92119680005, 92119680006, 92119680007, 92119680008, 92119680009

METHOD BLANK: 771491 — Matrix: Water
Associated Lab Samples: 92119680001, 92119680002, 92119680003, 92119680004, 92119680005, 92119680006, 92119680007, 92119680008, 92119680009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	06/01/12 16:09	

LABORATORY CONTROL SAMPLE: 771492

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.2	89	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 771493 771494

Parameter	Units	92119644002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	0.10J	2.5	2.5	1.6	1.5	59	54	75-125	7	25	M1

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QUALITY CONTROL DATA

Project: SURRY CLOSED - MT AIRY (UIC)
Pace Project No.: 92119680

QC Batch: MPRP/10712 — Analysis Method: EPA 6010
QC Batch Method: EPA 3010 — Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 92119680001, 92119680002, 92119680003, 92119680004, 92119680005, 92119680006, 92119680007, 92119680008, 92119680009

METHOD BLANK: 771426 — Matrix: Water
Associated Lab Samples: 92119680001, 92119680002, 92119680003, 92119680004, 92119680005, 92119680006, 92119680007, 92119680008, 92119680009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	6.0	06/02/12 00:36	
Arsenic	ug/L	ND	10.0	06/02/12 14:02	
Barium	ug/L	ND	100	06/02/12 00:36	
Beryllium	ug/L	ND	1.0	06/02/12 00:36	
Cadmium	ug/L	ND	1.0	06/02/12 00:36	
Chromium	ug/L	ND	10.0	06/02/12 00:36	
Cobalt	ug/L	ND	10.0	06/02/12 00:36	
Copper	ug/L	ND	10.0	06/02/12 00:36	
Lead	ug/L	ND	10.0	06/02/12 00:36	
Nickel	ug/L	ND	50.0	06/02/12 00:36	
Selenium	ug/L	ND	10.0	06/02/12 00:36	
Silver	ug/L	ND	10.0	06/02/12 00:36	
Thallium	ug/L	ND	5.5	06/02/12 00:36	
Tin	ug/L	ND	100	06/02/12 00:36	
Vanadium	ug/L	ND	25.0	06/02/12 00:36	
Zinc	ug/L	ND	10.0	06/02/12 00:36	

LABORATORY CONTROL SAMPLE: 771427

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	469	94	80-120	
Arsenic	ug/L	500	485	97	80-120	
Barium	ug/L	500	474	95	80-120	
Beryllium	ug/L	500	470	94	80-120	
Cadmium	ug/L	500	473	95	80-120	
Chromium	ug/L	500	469	94	80-120	
Cobalt	ug/L	500	468	94	80-120	
Copper	ug/L	500	476	95	80-120	
Lead	ug/L	500	469	94	80-120	
Nickel	ug/L	500	470	94	80-120	
Selenium	ug/L	500	466	93	80-120	
Silver	ug/L	250	239	96	80-120	
Thallium	ug/L	500	459	92	80-120	
Tin	ug/L	500	466	93	80-120	
Vanadium	ug/L	500	475	95	80-120	
Zinc	ug/L	500	461	92	80-120	

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QUALITY CONTROL DATA

Project: SURRY CLOSED - MT AIRY (UIC)
Pace Project No.: 92119680

MATRIX SPIKE SAMPLE: 771428

Parameter	Units	92119670001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	472	94	75-125	
Arsenic	ug/L	ND	500	493	99	75-125	
Barium	ug/L	11.1J	500	482	94	75-125	
Beryllium	ug/L	ND	500	473	95	75-125	
Cadmium	ug/L	ND	500	467	93	75-125	
Chromium	ug/L	ND	500	469	94	75-125	
Cobalt	ug/L	ND	500	466	93	75-125	
Copper	ug/L	ND	500	481	96	75-125	
Lead	ug/L	ND	500	451	90	75-125	
Nickel	ug/L	ND	500	463	93	75-125	
Selenium	ug/L	ND	500	458	92	75-125	
Silver	ug/L	ND	250	239	95	75-125	
Thallium	ug/L	ND	500	448	89	75-125	
Tin	ug/L	ND	500	470	94	75-125	
Vanadium	ug/L	ND	500	477	95	75-125	
Zinc	ug/L	ND	500	463	91	75-125	

SAMPLE DUPLICATE: 771429

Parameter	Units	92119680001 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	ND	ND		25	
Arsenic	ug/L	ND	ND		25	
Barium	ug/L	22.2J	21.3J	4	25	
Beryllium	ug/L	ND	ND		25	
Cadmium	ug/L	ND	ND		25	
Chromium	ug/L	ND	ND		25	
Cobalt	ug/L	ND	ND		25	
Copper	ug/L	ND	ND		25	
Lead	ug/L	ND	ND		25	
Nickel	ug/L	ND	ND		25	
Selenium	ug/L	ND	ND		25	
Silver	ug/L	ND	ND		25	
Thallium	ug/L	ND	ND		25	
Tin	ug/L	ND	ND		25	
Vanadium	ug/L	ND	ND		25	
Zinc	ug/L	ND	ND		25	

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QUALITY CONTROL DATA

Project: SURRY CLOSED - MT AIRY (UIC)
Pace Project No.: 92119680

QC Batch: MSV/19311 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 92119680001, 92119680002, 92119680003, 92119680004, 92119680005, 92119680006, 92119680007, 92119680009

METHOD BLANK: 772444 Matrix: Water
Associated Lab Samples: 92119680001, 92119680002, 92119680003, 92119680004, 92119680005, 92119680006, 92119680007, 92119680009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	06/03/12 13:30	
1,1,1-Trichloroethane	ug/L	ND	1.0	06/03/12 13:30	
1,1,2,2-Tetrachloroethane	ug/L	ND	3.0	06/03/12 13:30	
1,1,2-Trichloroethane	ug/L	ND	1.0	06/03/12 13:30	
1,1-Dichloroethane	ug/L	ND	5.0	06/03/12 13:30	
1,1-Dichloroethene	ug/L	ND	5.0	06/03/12 13:30	
1,1-Dichloropropene	ug/L	ND	5.0	06/03/12 13:30	
1,2,3-Trichloropropane	ug/L	ND	1.0	06/03/12 13:30	
1,2,4-Trichlorobenzene	ug/L	ND	10.0	06/03/12 13:30	
1,2-Dibromo-3-chloropropane	ug/L	ND	13.0	06/03/12 13:30	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	06/03/12 13:30	
1,2-Dichlorobenzene	ug/L	ND	5.0	06/03/12 13:30	
1,2-Dichloroethane	ug/L	ND	1.0	06/03/12 13:30	
1,2-Dichloropropane	ug/L	ND	1.0	06/03/12 13:30	
1,3-Dichlorobenzene	ug/L	ND	5.0	06/03/12 13:30	
1,3-Dichloropropane	ug/L	ND	1.0	06/03/12 13:30	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/03/12 13:30	
2,2-Dichloropropane	ug/L	ND	15.0	06/03/12 13:30	
2-Butanone (MEK)	ug/L	ND	100	06/03/12 13:30	
2-Hexanone	ug/L	ND	50.0	06/03/12 13:30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	06/03/12 13:30	
Acetone	ug/L	ND	100	06/03/12 13:30	
Acetonitrile	ug/L	ND	55.0	06/03/12 13:30	
Acrolein	ug/L	ND	53.0	06/03/12 13:30	
Acrylonitrile	ug/L	ND	200	06/03/12 13:30	
Allyl chloride	ug/L	ND	10.0	06/03/12 13:30	
Benzene	ug/L	ND	1.0	06/03/12 13:30	
Bromochloromethane	ug/L	ND	3.0	06/03/12 13:30	
Bromodichloromethane	ug/L	ND	1.0	06/03/12 13:30	
Bromoform	ug/L	ND	3.0	06/03/12 13:30	
Bromomethane	ug/L	ND	10.0	06/03/12 13:30	
Carbon disulfide	ug/L	ND	100	06/03/12 13:30	
Carbon tetrachloride	ug/L	ND	1.0	06/03/12 13:30	
Chlorobenzene	ug/L	ND	3.0	06/03/12 13:30	
Chloroethane	ug/L	ND	10.0	06/03/12 13:30	
Chloroform	ug/L	ND	5.0	06/03/12 13:30	
Chloromethane	ug/L	ND	1.0	06/03/12 13:30	
Chloroprene	ug/L	ND	20.0	06/03/12 13:30	
cis-1,2-Dichloroethene	ug/L	ND	5.0	06/03/12 13:30	
cis-1,3-Dichloropropene	ug/L	ND	1.0	06/03/12 13:30	
Dibromochloromethane	ug/L	ND	3.0	06/03/12 13:30	

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QUALITY CONTROL DATA

Project: SURRY CLOSED - MT AIRY (UIC)
Pace Project No.: 92119680

METHOD BLANK: 772444 Matrix: Water

Associated Lab Samples: 92119680001, 92119680002, 92119680003, 92119680004, 92119680005, 92119680006, 92119680007, 92119680009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	10.0	06/03/12 13:30	
Dichlorodifluoromethane	ug/L	ND	5.0	06/03/12 13:30	
Ethyl methacrylate	ug/L	ND	10.0	06/03/12 13:30	
Ethylbenzene	ug/L	ND	1.0	06/03/12 13:30	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	06/03/12 13:30	
Iodomethane	ug/L	ND	10.0	06/03/12 13:30	
Isobutanol	ug/L	ND	100	06/03/12 13:30	
Methacrylonitrile	ug/L	ND	100	06/03/12 13:30	
Methyl methacrylate	ug/L	ND	30.0	06/03/12 13:30	
Methylene Chloride	ug/L	ND	1.0	06/03/12 13:30	
Naphthalene	ug/L	ND	10.0	06/03/12 13:30	
Propionitrile	ug/L	ND	150	06/03/12 13:30	
Styrene	ug/L	ND	1.0	06/03/12 13:30	
Tetrachloroethene	ug/L	ND	1.0	06/03/12 13:30	
Toluene	ug/L	ND	1.0	06/03/12 13:30	
trans-1,2-Dichloroethene	ug/L	ND	5.0	06/03/12 13:30	
trans-1,3-Dichloropropene	ug/L	ND	1.0	06/03/12 13:30	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	06/03/12 13:30	
Trichloroethene	ug/L	ND	1.0	06/03/12 13:30	
Trichlorofluoromethane	ug/L	ND	1.0	06/03/12 13:30	
Vinyl acetate	ug/L	ND	50.0	06/03/12 13:30	
Vinyl chloride	ug/L	ND	1.0	06/03/12 13:30	
Xylene (Total)	ug/L	ND	5.0	06/03/12 13:30	
1,2-Dichloroethane-d4 (S)	%	103	70-130	06/03/12 13:30	
4-Bromofluorobenzene (S)	%	100	70-130	06/03/12 13:30	
Dibromofluoromethane (S)	%	107	70-130	06/03/12 13:30	
Toluene-d8 (S)	%	101	70-130	06/03/12 13:30	

LABORATORY CONTROL SAMPLE: 772445

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.4	103	70-130	
1,1,1-Trichloroethane	ug/L	50	51.9	104	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	51.4	103	70-130	
1,1,2-Trichloroethane	ug/L	50	54.8	110	70-130	
1,1-Dichloroethane	ug/L	50	45.8	92	70-130	
1,1-Dichloroethene	ug/L	50	51.5	103	70-132	
1,1-Dichloropropene	ug/L	50	48.8	98	70-130	
1,2,3-Trichloropropane	ug/L	50	54.7	109	70-130	
1,2,4-Trichlorobenzene	ug/L	50	51.0	102	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	53.0	106	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	51.5	103	70-130	
1,2-Dichlorobenzene	ug/L	50	48.2	96	70-130	
1,2-Dichloroethane	ug/L	50	51.4	103	70-130	

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QUALITY CONTROL DATA

Project: SURRY CLOSED - MT AIRY (UIC)
Pace Project No.: 92119680

LABORATORY CONTROL SAMPLE: 772445

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloropropane	ug/L	50	51.4	103	70-130	
1,3-Dichlorobenzene	ug/L	50	48.5	97	70-130	
1,3-Dichloropropane	ug/L	50	50.4	101	70-130	
1,4-Dichlorobenzene	ug/L	50	48.3	97	70-130	
2,2-Dichloropropane	ug/L	50	49.5	99	58-145	
2-Butanone (MEK)	ug/L	100	119	119	70-145	
2-Hexanone	ug/L	100	108	108	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	100	111	111	70-140	
Acetone	ug/L	100	129	129	50-175	
Acetonitrile	ug/L	500	523	105	70-130	
Acrolein	ug/L	250	252	101	70-130	
Acrylonitrile	ug/L	250	285	114	70-143	
Allyl chloride	ug/L	50	42.0	84	70-130	
Benzene	ug/L	50	49.1	98	70-130	
Bromochloromethane	ug/L	50	51.1	102	70-130	
Bromodichloromethane	ug/L	50	51.4	103	70-130	
Bromoform	ug/L	50	53.5	107	70-130	
Bromomethane	ug/L	50	52.7	105	54-130	
Carbon disulfide	ug/L	50	56.0J	112	70-131	
Carbon tetrachloride	ug/L	50	55.7	111	70-132	
Chlorobenzene	ug/L	50	49.5	99	70-130	
Chloroethane	ug/L	50	88.0	176	64-134	L0
Chloroform	ug/L	50	49.9	100	70-130	
Chloromethane	ug/L	50	51.5	103	64-130	
Chloroprene	ug/L	50	56.9	114	70-130	
cis-1,2-Dichloroethene	ug/L	50	51.4	103	70-131	
cis-1,3-Dichloropropene	ug/L	50	53.6	107	70-130	
Dibromochloromethane	ug/L	50	52.4	105	70-130	
Dibromomethane	ug/L	50	53.7	107	70-131	
Dichlorodifluoromethane	ug/L	50	40.5	81	56-130	
Ethyl methacrylate	ug/L	50	52.1	104	70-130	
Ethylbenzene	ug/L	50	50.0	100	70-130	
Hexachloro-1,3-butadiene	ug/L	50	56.1	112	70-130	
Iodomethane	ug/L	100	81.8	82	49-180	
Isobutanol	ug/L	1000	1070	107	70-130	
Methacrylonitrile	ug/L	500	555	111	70-130	
Methyl methacrylate	ug/L	50	56.9	114	70-130	
Methylene Chloride	ug/L	50	56.8	114	63-130	
Naphthalene	ug/L	50	50.9	102	70-138	
Propionitrile	ug/L	500	564	113	70-130	
Styrene	ug/L	50	49.9	100	70-130	
Tetrachloroethene	ug/L	50	49.5	99	70-130	
Toluene	ug/L	50	49.0	98	70-130	
trans-1,2-Dichloroethene	ug/L	50	50.5	101	70-130	
trans-1,3-Dichloropropene	ug/L	50	53.1	106	70-132	
trans-1,4-Dichloro-2-butene	ug/L	50	57.0J	114	70-141	
Trichloroethene	ug/L	50	52.7	105	70-130	
Trichlorofluoromethane	ug/L	50	54.6	109	62-133	

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QUALITY CONTROL DATA

Project: SURRY CLOSED - MT AIRY (UIC)
Pace Project No.: 92119680

LABORATORY CONTROL SAMPLE: 772445

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl acetate	ug/L	100	102	102	66-157	
Vinyl chloride	ug/L	50	50.8	102	69-130	
Xylene (Total)	ug/L	150	147	98	70-130	
1,2-Dichloroethane-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Dibromofluoromethane (S)	%			104	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 772446 772447

Parameter	Units	92119889005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	53.6	63.7	107	127	70-166	17	30	
Benzene	ug/L	ND	50	50	44.2	48.6	88	97	70-148	9	30	
Chlorobenzene	ug/L	ND	50	50	50.6	61.3	101	123	70-146	19	30	
Toluene	ug/L	ND	50	50	49.1	57.3	98	115	70-155	15	30	
Trichloroethene	ug/L	ND	50	50	53.1	63.8	106	128	69-151	18	30	
1,2-Dichloroethane-d4 (S)	%						108	106	70-130			
4-Bromofluorobenzene (S)	%						100	102	70-130			
Dibromofluoromethane (S)	%						105	105	70-130			
Toluene-d8 (S)	%						97	98	70-130			

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QUALITY CONTROL DATA

Project: SURRY CLOSED - MT AIRY (UIC)
Pace Project No.: 92119680

QC Batch: MSV/19324
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 92119680008

METHOD BLANK: 772763
Matrix: Water
Associated Lab Samples: 92119680008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	06/05/12 03:08	
1,1,1-Trichloroethane	ug/L	ND	1.0	06/05/12 03:08	
1,1,2,2-Tetrachloroethane	ug/L	ND	3.0	06/05/12 03:08	
1,1,2-Trichloroethane	ug/L	ND	1.0	06/05/12 03:08	
1,1-Dichloroethane	ug/L	ND	5.0	06/05/12 03:08	
1,1-Dichloroethene	ug/L	ND	5.0	06/05/12 03:08	
1,1-Dichloropropene	ug/L	ND	5.0	06/05/12 03:08	
1,2,3-Trichloropropane	ug/L	ND	1.0	06/05/12 03:08	
1,2,4-Trichlorobenzene	ug/L	ND	10.0	06/05/12 03:08	
1,2-Dibromo-3-chloropropane	ug/L	ND	13.0	06/05/12 03:08	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	06/05/12 03:08	
1,2-Dichlorobenzene	ug/L	ND	5.0	06/05/12 03:08	
1,2-Dichloroethane	ug/L	ND	1.0	06/05/12 03:08	
1,2-Dichloropropane	ug/L	ND	1.0	06/05/12 03:08	
1,3-Dichlorobenzene	ug/L	ND	5.0	06/05/12 03:08	
1,3-Dichloropropane	ug/L	ND	1.0	06/05/12 03:08	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/05/12 03:08	
2,2-Dichloropropane	ug/L	ND	15.0	06/05/12 03:08	
2-Butanone (MEK)	ug/L	ND	100	06/05/12 03:08	
2-Hexanone	ug/L	ND	50.0	06/05/12 03:08	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	06/05/12 03:08	
Acetone	ug/L	ND	100	06/05/12 03:08	
Acetonitrile	ug/L	ND	55.0	06/05/12 03:08	
Acrolein	ug/L	ND	53.0	06/05/12 03:08	
Acrylonitrile	ug/L	ND	200	06/05/12 03:08	
Allyl chloride	ug/L	ND	10.0	06/05/12 03:08	
Benzene	ug/L	ND	1.0	06/05/12 03:08	
Bromochloromethane	ug/L	ND	3.0	06/05/12 03:08	
Bromodichloromethane	ug/L	ND	1.0	06/05/12 03:08	
Bromoform	ug/L	ND	3.0	06/05/12 03:08	
Bromomethane	ug/L	ND	10.0	06/05/12 03:08	
Carbon disulfide	ug/L	ND	100	06/05/12 03:08	
Carbon tetrachloride	ug/L	ND	1.0	06/05/12 03:08	
Chlorobenzene	ug/L	ND	3.0	06/05/12 03:08	
Chloroethane	ug/L	ND	10.0	06/05/12 03:08	
Chloroform	ug/L	ND	5.0	06/05/12 03:08	
Chloromethane	ug/L	ND	1.0	06/05/12 03:08	
Chloroprene	ug/L	ND	20.0	06/05/12 03:08	
cis-1,2-Dichloroethene	ug/L	ND	5.0	06/05/12 03:08	
cis-1,3-Dichloropropene	ug/L	ND	1.0	06/05/12 03:08	
Dibromochloromethane	ug/L	ND	3.0	06/05/12 03:08	
Dibromomethane	ug/L	ND	10.0	06/05/12 03:08	
Dichlorodifluoromethane	ug/L	ND	5.0	06/05/12 03:08	

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QUALITY CONTROL DATA

Project: SURRY CLOSED - MT AIRY (UIC)
Pace Project No.: 92119680

METHOD BLANK: 772763 Matrix: Water

Associated Lab Samples: 92119680008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethyl methacrylate	ug/L	ND	10.0	06/05/12 03:08	
Ethylbenzene	ug/L	ND	1.0	06/05/12 03:08	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	06/05/12 03:08	
Iodomethane	ug/L	ND	10.0	06/05/12 03:08	
Isobutanol	ug/L	ND	100	06/05/12 03:08	
Methacrylonitrile	ug/L	ND	100	06/05/12 03:08	
Methyl methacrylate	ug/L	ND	30.0	06/05/12 03:08	
Methylene Chloride	ug/L	ND	1.0	06/05/12 03:08	
Naphthalene	ug/L	ND	10.0	06/05/12 03:08	
Propionitrile	ug/L	ND	150	06/05/12 03:08	
Styrene	ug/L	ND	1.0	06/05/12 03:08	
Tetrachloroethene	ug/L	ND	1.0	06/05/12 03:08	
Toluene	ug/L	ND	1.0	06/05/12 03:08	
trans-1,2-Dichloroethene	ug/L	ND	5.0	06/05/12 03:08	
trans-1,3-Dichloropropene	ug/L	ND	1.0	06/05/12 03:08	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	06/05/12 03:08	
Trichloroethene	ug/L	ND	1.0	06/05/12 03:08	
Trichlorofluoromethane	ug/L	ND	1.0	06/05/12 03:08	
Vinyl acetate	ug/L	ND	50.0	06/05/12 03:08	
Vinyl chloride	ug/L	ND	1.0	06/05/12 03:08	
Xylene (Total)	ug/L	ND	5.0	06/05/12 03:08	
1,2-Dichloroethane-d4 (S)	%	102	70-130	06/05/12 03:08	
4-Bromofluorobenzene (S)	%	103	70-130	06/05/12 03:08	
Dibromofluoromethane (S)	%	105	70-130	06/05/12 03:08	
Toluene-d8 (S)	%	99	70-130	06/05/12 03:08	

LABORATORY CONTROL SAMPLE: 772764

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.2	100	70-130	
1,1,1-Trichloroethane	ug/L	50	43.7	87	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	49.4	99	70-130	
1,1,2-Trichloroethane	ug/L	50	52.9	106	70-130	
1,1-Dichloroethane	ug/L	50	40.6	81	70-130	
1,1-Dichloroethene	ug/L	50	45.0	90	70-132	
1,1-Dichloropropene	ug/L	50	45.5	91	70-130	
1,2,3-Trichloropropane	ug/L	50	53.2	106	70-130	
1,2,4-Trichlorobenzene	ug/L	50	47.6	95	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	50.4	101	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	51.1	102	70-130	
1,2-Dichlorobenzene	ug/L	50	46.1	92	70-130	
1,2-Dichloroethane	ug/L	50	46.9	94	70-130	
1,2-Dichloropropane	ug/L	50	48.8	98	70-130	
1,3-Dichlorobenzene	ug/L	50	45.9	92	70-130	
1,3-Dichloropropane	ug/L	50	49.2	98	70-130	

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QUALITY CONTROL DATA

Project: SURRY CLOSED - MT AIRY (UIC)
Pace Project No.: 92119680

LABORATORY CONTROL SAMPLE: 772764

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	46.1	92	70-130	
2,2-Dichloropropane	ug/L	50	37.4	75	58-145	
2-Butanone (MEK)	ug/L	100	98.9J	99	70-145	
2-Hexanone	ug/L	100	104	104	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	100	103	103	70-140	
Acetone	ug/L	100	116	116	50-175	
Acetonitrile	ug/L	500	498	100	70-130	
Acrolein	ug/L	250	210	84	70-130	
Acrylonitrile	ug/L	250	253	101	70-143	
Allyl chloride	ug/L	50	33.7	67	70-130	L0
Benzene	ug/L	50	48.8	98	70-130	
Bromochloromethane	ug/L	50	44.9	90	70-130	
Bromodichloromethane	ug/L	50	47.6	95	70-130	
Bromoform	ug/L	50	52.2	104	70-130	
Bromomethane	ug/L	50	41.3	83	54-130	
Carbon disulfide	ug/L	50	50.4J	101	70-131	
Carbon tetrachloride	ug/L	50	49.8	100	70-132	
Chlorobenzene	ug/L	50	47.2	94	70-130	
Chloroethane	ug/L	50	64.7	129	64-134	
Chloroform	ug/L	50	44.2	88	70-130	
Chloromethane	ug/L	50	46.7	93	64-130	
Chloroprene	ug/L	50	49.5	99	70-130	
cis-1,2-Dichloroethene	ug/L	50	45.7	91	70-131	
cis-1,3-Dichloropropene	ug/L	50	47.2	94	70-130	
Dibromochloromethane	ug/L	50	49.8	100	70-130	
Dibromomethane	ug/L	50	50.0	100	70-131	
Dichlorodifluoromethane	ug/L	50	31.0	62	56-130	
Ethyl methacrylate	ug/L	50	48.4	97	70-130	
Ethylbenzene	ug/L	50	47.9	96	70-130	
Hexachloro-1,3-butadiene	ug/L	50	49.4	99	70-130	
Iodomethane	ug/L	100	79.6	80	49-180	
Isobutanol	ug/L	1000	1040	104	70-130	
Methacrylonitrile	ug/L	500	489	98	70-130	
Methyl methacrylate	ug/L	50	54.7	109	70-130	
Methylene Chloride	ug/L	50	50.0	100	63-130	
Naphthalene	ug/L	50	48.7	97	70-138	
Propionitrile	ug/L	500	520	104	70-130	
Styrene	ug/L	50	48.5	97	70-130	
Tetrachloroethene	ug/L	50	46.5	93	70-130	
Toluene	ug/L	50	46.6	93	70-130	
trans-1,2-Dichloroethene	ug/L	50	44.8	90	70-130	
trans-1,3-Dichloropropene	ug/L	50	49.5	99	70-132	
trans-1,4-Dichloro-2-butene	ug/L	50	45.8J	92	70-141	
Trichloroethene	ug/L	50	49.4	99	70-130	
Trichlorofluoromethane	ug/L	50	46.1	92	62-133	
Vinyl acetate	ug/L	100	85.0	85	66-157	
Vinyl chloride	ug/L	50	43.6	87	69-130	
Xylene (Total)	ug/L	150	139	93	70-130	

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(704)875-9092

QUALITY CONTROL DATA

Project: SURRY CLOSED - MT AIRY (UIC)
Pace Project No.: 92119680

LABORATORY CONTROL SAMPLE: 772764

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%			89	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Dibromofluoromethane (S)	%			95	70-130	
Toluene-d8 (S)	%			99	70-130	

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QUALITY CONTROL DATA

Project: SURRY CLOSED - MT AIRY (UIC)
Pace Project No.: 92119680

QC Batch: WET/21110 — Analysis Method: SM 2320B
QC Batch Method: SM 2320B — Analysis Description: 2320B Alkalinity
Associated Lab Samples: 92119680001, 92119680002, 92119680003, 92119680004, 92119680005, 92119680006, 92119680007, 92119680008, 92119680009

METHOD BLANK: 773869 — Matrix: Water
Associated Lab Samples: 92119680001, 92119680002, 92119680003, 92119680004, 92119680005, 92119680006, 92119680007, 92119680008, 92119680009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	ug/L	ND	1000	06/06/12 16:40	

LABORATORY CONTROL SAMPLE: 773870

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	ug/L	50000	48400	97	90-110	

MATRIX SPIKE SAMPLE: 773872

Parameter	Units	92119710001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	ug/L	15.9 mg/L	50000	61400	91		

MATRIX SPIKE SAMPLE: 773874

Parameter	Units	92119679005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	ug/L	39.1 mg/L	50000	80300	82		

SAMPLE DUPLICATE: 773871

Parameter	Units	92119710001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	ug/L	15.9 mg/L	15600	2	20	

SAMPLE DUPLICATE: 773873

Parameter	Units	92119679005 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	ug/L	39.1 mg/L	31900	20	20	

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QUALITY CONTROL DATA

Project: SURRY CLOSED - MT AIRY (UIC)
Pace Project No.: 92119680

QC Batch: WET/21056 Analysis Method: SM 5210B
QC Batch Method: SM 5210B Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 92119680001, 92119680002, 92119680003, 92119680004, 92119680007, 92119680008

METHOD BLANK: 771470 Matrix: Water
Associated Lab Samples: 92119680001, 92119680002, 92119680003, 92119680004, 92119680007, 92119680008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	ug/L	ND	2000	06/06/12 09:45	

LABORATORY CONTROL SAMPLE: 771471

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	ug/L	198000	178000	90	84-115	

SAMPLE DUPLICATE: 771472

Parameter	Units	92119680001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: SURRY CLOSED - MT AIRY (UIC)
Pace Project No.: 92119680

QC Batch: WET/21062 Analysis Method: SM 5210B
QC Batch Method: SM 5210B Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 92119680005, 92119680006, 92119680009

METHOD BLANK: 771713 Matrix: Water
Associated Lab Samples: 92119680005, 92119680006, 92119680009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	ug/L	ND	2000	06/06/12 11:16	

LABORATORY CONTROL SAMPLE: 771714

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	ug/L	198000	175000	88	84-115	

SAMPLE DUPLICATE: 771715

Parameter	Units	92119695001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	ug/L	163 mg/L	163000	0	20	

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QUALITY CONTROL DATA

Project: SURRY CLOSED - MT AIRY (UIC)
Pace Project No.: 92119680

QC Batch: WETA/12230 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 92119680001, 92119680002, 92119680003

METHOD BLANK: 771387 Matrix: Water
Associated Lab Samples: 92119680001, 92119680002, 92119680003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	ug/L	ND	250000	06/01/12 13:42	

LABORATORY CONTROL SAMPLE: 771388

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	20000	19600J	98	90-110	

MATRIX SPIKE SAMPLE: 771391

Parameter	Units	92119644009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	ND	20000	23900J	120	90-110	M1

MATRIX SPIKE SAMPLE: 771414

Parameter	Units	92119644002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	ND	20000	ND	0	90-110	M1

SAMPLE DUPLICATE: 771392

Parameter	Units	92119644009 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfate	ug/L	ND	ND		20	

SAMPLE DUPLICATE: 771415

Parameter	Units	92119644002 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfate	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: SURRY CLOSED - MT AIRY (UIC)
Pace Project No.: 92119680

QC Batch: WETA/12282 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 92119680004, 92119680005, 92119680006, 92119680007, 92119680008, 92119680009

METHOD BLANK: 775510 Matrix: Water
Associated Lab Samples: 92119680004, 92119680005, 92119680006, 92119680007, 92119680008, 92119680009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	ug/L	ND	250000	06/08/12 23:50	

LABORATORY CONTROL SAMPLE: 775511

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

MATRIX SPIKE SAMPLE: 775512

Parameter	Units	92120272001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	558 mg/L	20000	733000J	877	90-110	M6

MATRIX SPIKE SAMPLE: 775514

Parameter	Units	92119681005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	ND	20000	21200J	97	90-110	

SAMPLE DUPLICATE: 775513

Parameter	Units	92120272001 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfate	ug/L	558 mg/L	563000J	1	20	

SAMPLE DUPLICATE: 775515

Parameter	Units	92119681005 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfate	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: SURRY CLOSED - MT AIRY (UIC)
Pace Project No.: 92119680

QC Batch: WETA/12275 Analysis Method: SM 4500-Cl-E
QC Batch Method: SM 4500-Cl-E Analysis Description: 4500 Chloride
Associated Lab Samples: 92119680002, 92119680003, 92119680004, 92119680005, 92119680006

METHOD BLANK: 775427 Matrix: Water
Associated Lab Samples: 92119680002, 92119680003, 92119680004, 92119680005, 92119680006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	ug/L	ND	1000	06/08/12 08:55	

LABORATORY CONTROL SAMPLE: 775428

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

MATRIX SPIKE SAMPLE: 775429

Parameter	Units	92119761001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	ug/L	234 mg/L	20000	251000	87	75-125	

SAMPLE DUPLICATE: 775430

Parameter	Units	92120033001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	ug/L	6730 mg/L	7340000	9	20	

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QUALITY CONTROL DATA

Project: SURRY CLOSED - MT AIRY (UIC)
Pace Project No.: 92119680

QC Batch: WETA/12276 Analysis Method: SM 4500-Cl-E
QC Batch Method: SM 4500-Cl-E Analysis Description: 4500 Chloride
Associated Lab Samples: 92119680007, 92119680008, 92119680009

METHOD BLANK: 775431 Matrix: Water
Associated Lab Samples: 92119680007, 92119680008, 92119680009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	ug/L	ND	1000	06/08/12 09:12	

LABORATORY CONTROL SAMPLE: 775432

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

MATRIX SPIKE SAMPLE: 775434

Parameter	Units	92119644002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	ug/L	2100	20000	22400	101	75-125	

SAMPLE DUPLICATE: 775433

Parameter	Units	92119644002 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	ug/L	2100	2100	0	20	

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QUALITY CONTROL DATA

Project: SURRY CLOSED - MT AIRY (UIC)
Pace Project No.: 92119680

QC Batch: WETA/12313 — Analysis Method: SM 4500-Cl-E
QC Batch Method: SM 4500-Cl-E — Analysis Description: 4500 Chloride
Associated Lab Samples: 92119680001

METHOD BLANK: 777164 — Matrix: Water
Associated Lab Samples: 92119680001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	ug/L	ND	1000	06/12/12 13:58	

LABORATORY CONTROL SAMPLE: 777165

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

MATRIX SPIKE SAMPLE: 777166

Parameter	Units	92119680001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	ug/L	3560	20000	23800	101	75-125	

SAMPLE DUPLICATE: 777167

Parameter	Units	92120629001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	ug/L	86.3 mg/L	86600	0	20	

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QUALITY CONTROL DATA

Project: SURRY CLOSED - MT AIRY (UIC)
Pace Project No.: 92119680

QC Batch: WETA/12304 Analysis Method: SM 5310B
QC Batch Method: SM 5310B Analysis Description: 5310B TOC
Associated Lab Samples: 92119680001, 92119680002, 92119680003, 92119680004, 92119680005, 92119680006, 92119680007, 92119680008, 92119680009

METHOD BLANK: 776582 Matrix: Water
Associated Lab Samples: 92119680001, 92119680002, 92119680003, 92119680004, 92119680005, 92119680006, 92119680007, 92119680008, 92119680009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	ug/L	ND	1000	06/12/12 16:34	

LABORATORY CONTROL SAMPLE: 776583

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

MATRIX SPIKE SAMPLE: 776584

Parameter	Units	92119680001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	ug/L	ND	25000	25400	100	75-125	

MATRIX SPIKE SAMPLE: 776586

Parameter	Units	92119865002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	ug/L	1300 mg/L	25000	1240000	-234	75-125	M6

SAMPLE DUPLICATE: 776585

Parameter	Units	92119680002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	ug/L	ND	ND		20	

SAMPLE DUPLICATE: 776643

Parameter	Units	92119904001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	ug/L	9.0 mg/L	12000	29	20	D6

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QUALIFIERS

Project: SURRY CLOSED - MT AIRY (UIC)
Pace Project No.: 92119680

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

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TNI - The NELAC Institute.

LABORATORIES

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

ANALYTE QUALIFIERS

B2	Oxygen usage is less than 2.0 for all dilutions set. The reported value is an estimated less than value and is calculated for the dilution using the most amount of sample.
D6	The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SURRY CLOSED - MT AIRY (UIC)
Pace Project No.: 92119680

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92119680001	**MW-1**	EPA 3010	MPRP/10712	EPA 6010	ICP/9854
92119680002	**MW-3R**	EPA 3010	MPRP/10712	EPA 6010	ICP/9854
92119680003	**MW-12S**	EPA 3010	MPRP/10712	EPA 6010	ICP/9854
92119680004	**MW-12D**	EPA 3010	MPRP/10712	EPA 6010	ICP/9854
92119680005	**MW-13**	EPA 3010	MPRP/10712	EPA 6010	ICP/9854
92119680006	**MW-16**	EPA 3010	MPRP/10712	EPA 6010	ICP/9854
92119680007	**MW-18**	EPA 3010	MPRP/10712	EPA 6010	ICP/9854
92119680008	**MW-19**	EPA 3010	MPRP/10712	EPA 6010	ICP/9854
92119680009	**MW-15**	EPA 3010	MPRP/10712	EPA 6010	ICP/9854
92119680001	**MW-1**	EPA 7470	MERP/4263	EPA 7470	MERC/4182
92119680002	**MW-3R**	EPA 7470	MERP/4263	EPA 7470	MERC/4182
92119680003	**MW-12S**	EPA 7470	MERP/4263	EPA 7470	MERC/4182
92119680004	**MW-12D**	EPA 7470	MERP/4263	EPA 7470	MERC/4182
92119680005	**MW-13**	EPA 7470	MERP/4263	EPA 7470	MERC/4182
92119680006	**MW-16**	EPA 7470	MERP/4263	EPA 7470	MERC/4182
92119680007	**MW-18**	EPA 7470	MERP/4263	EPA 7470	MERC/4182
92119680008	**MW-19**	EPA 7470	MERP/4263	EPA 7470	MERC/4182
92119680009	**MW-15**	EPA 7470	MERP/4263	EPA 7470	MERC/4182
92119680001	**MW-1**	EPA 8260	MSV/19311		
92119680002	**MW-3R**	EPA 8260	MSV/19311		
92119680003	**MW-12S**	EPA 8260	MSV/19311		
92119680004	**MW-12D**	EPA 8260	MSV/19311		
92119680005	**MW-13**	EPA 8260	MSV/19311		
92119680006	**MW-16**	EPA 8260	MSV/19311		
92119680007	**MW-18**	EPA 8260	MSV/19311		
92119680008	**MW-19**	EPA 8260	MSV/19324		
92119680009	**MW-15**	EPA 8260	MSV/19311		
92119680001	**MW-1**	SM 2320B	WET/21110		
92119680002	**MW-3R**	SM 2320B	WET/21110		
92119680003	**MW-12S**	SM 2320B	WET/21110		
92119680004	**MW-12D**	SM 2320B	WET/21110		
92119680005	**MW-13**	SM 2320B	WET/21110		
92119680006	**MW-16**	SM 2320B	WET/21110		
92119680007	**MW-18**	SM 2320B	WET/21110		
92119680008	**MW-19**	SM 2320B	WET/21110		
92119680009	**MW-15**	SM 2320B	WET/21110		
92119680001	**MW-1**	SM 5210B	WET/21056	SM 5210B	WET/21057
92119680002	**MW-3R**	SM 5210B	WET/21056	SM 5210B	WET/21057
92119680003	**MW-12S**	SM 5210B	WET/21056	SM 5210B	WET/21057
92119680004	**MW-12D**	SM 5210B	WET/21056	SM 5210B	WET/21057
92119680005	**MW-13**	SM 5210B	WET/21062	SM 5210B	WET/21065
92119680006	**MW-16**	SM 5210B	WET/21062	SM 5210B	WET/21065
92119680007	**MW-18**	SM 5210B	WET/21056	SM 5210B	WET/21057
92119680008	**MW-19**	SM 5210B	WET/21056	SM 5210B	WET/21057

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

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

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SURRY CLOSED - MT AIRY (UIC)
Pace Project No.: 92119680

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92119680009	**MW-15**	SM 5210B	WET/21062	SM 5210B	WET/21065
92119680001	**MW-1**	EPA 300.0	WETA/12230		
92119680002	**MW-3R**	EPA 300.0	WETA/12230		
92119680003	**MW-12S**	EPA 300.0	WETA/12230		
92119680004	**MW-12D**	EPA 300.0	WETA/12282		
92119680005	**MW-13**	EPA 300.0	WETA/12282		
92119680006	**MW-16**	EPA 300.0	WETA/12282		
92119680007	**MW-18**	EPA 300.0	WETA/12282		
92119680008	**MW-19**	EPA 300.0	WETA/12282		
92119680009	**MW-15**	EPA 300.0	WETA/12282		
92119680001	**MW-1**	SM 4500-Cl-E	WETA/12313		
92119680002	**MW-3R**	SM 4500-Cl-E	WETA/12275		
92119680003	**MW-12S**	SM 4500-Cl-E	WETA/12275		
92119680004	**MW-12D**	SM 4500-Cl-E	WETA/12275		
92119680005	**MW-13**	SM 4500-Cl-E	WETA/12275		
92119680006	**MW-16**	SM 4500-Cl-E	WETA/12275		
92119680007	**MW-18**	SM 4500-Cl-E	WETA/12276		
92119680008	**MW-19**	SM 4500-Cl-E	WETA/12276		
92119680009	**MW-15**	SM 4500-Cl-E	WETA/12276		
92119680001	**MW-1**	SM 5310B	WETA/12304		
92119680002	**MW-3R**	SM 5310B	WETA/12304		
92119680003	**MW-12S**	SM 5310B	WETA/12304		
92119680004	**MW-12D**	SM 5310B	WETA/12304		
92119680005	**MW-13**	SM 5310B	WETA/12304		
92119680006	**MW-16**	SM 5310B	WETA/12304		
92119680007	**MW-18**	SM 5310B	WETA/12304		
92119680008	**MW-19**	SM 5310B	WETA/12304		
92119680009	**MW-15**	SM 5310B	WETA/12304		

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Complete only COC for this Report

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A — Required Client Information:

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

Section B — Required Project Information:

Report To:	Jonathan Pfohl
Copy To:	
Purchase Order No.	
Client Project ID:	Surry Closed-Mt. Airy (UIC)
Container Order Number:	

Section C — Invoice Information:

Attention:	Municipal Engineering Services
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Kevin Godwin
Pace Profile #:	2103-6

Regulatory Agency:

State / Location: North Carolina

Requested Analysis Filtered (Y/N)

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

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Alkalinity		Chloride	TOC		BOD			Sulfate	VOCs- App II	Metals-App II			9B1P1680
																			N	N	N	N	N	N	N	N	N	N	N	N		
1	MW-1	WT	G			5/30/12	10:15			3		1	5				2		x		x	x		x			x	x	x			001
2	MW-3R	WT	G				3:05			3		1	5				2		x		x	x		x			x	x	x			002
3	MW-12S	WT	G				1:35			3		1	5				2		x		x	x		x			x	x	x			003
4	MW-12D	WT	G				12:00			3		1	5				2		x		x	x		x			x	x	x			004
5	MW-13	WT	G				5:00			3		1	5				2		x		x	x		x			x	x	x			005
6	MW-16	WT	G				5:40			3		1	5				2		x		x	x		x			x	x	x			006
7	MW-18	WT	G				11:00			3		1	5				2		x		x	x		x			x	x	x			007
8	MW-19	WT	G				2:05			3		1	5				2		x		x	x		x			x	x	x			008
9	MW-15	WT	G				4:05			3		1	5				2		x		x	x		x			x	x	x			009
10																																
11																																
12																																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	MESCO	5/31/12	9:05	Pace	5/31/12	905
	Pace	5/31/12	1340		5/31/12	1340

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jonathan Pfohl

SIGNATURE of SAMPLER:

DATE Signed: 5/31/12

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

Client Name: Municipal Project # 92119680

Where Received: ☒ Huntersville ☐ Asheville ☐ Eden

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

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

Optional
Proj. Due Date:
Proj. Name:

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

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

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

Corrected Cooler Temp.: 2.8 C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 05/31/12

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☑No ☐N/A	9. Received a 1L Amber For MW-19 For Sulfate
-Pace Containers Used:	☑Yes ☑No ☐N/A	
Containers Intact:	☐Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☑No ☐N/A	12. No Times or Dates on sample bottles received
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):_____		

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: JG **Date:** 5/31/12 **SRF Review:** JG **Date:** 5/31/12

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

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

Thursday, June 14, 2012

Municipal Engineering Services (MU001)

Attn: Jonathan Pfohl

P.O. Box 97

Garner, NC 27529

RE: Laboratory Results for
Project Number: G11024.Closed, Project Name/Desc: Surry Co. Closed MSWLF - Mt. Airy
ENCO Workorder(s): C206089

Dear Jonathan Pfohl,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Friday, June 1, 2012.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 11.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: MW-12S	Lab ID: C206089-01	Sampled: 05/30/12 13:35	Received: 06/01/12 13:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	06/27/12	06/12/12 07:38	6/12/2012 16:52

Client ID: MW-13	Lab ID: C206089-02	Sampled: 05/30/12 17:00	Received: 06/01/12 13:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	06/27/12	06/12/12 07:38	6/12/2012 17:09

Client ID: MW-14	Lab ID: C206089-03	Sampled: 06/01/12 10:00	Received: 06/01/12 13:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	06/29/12	06/12/12 07:38	6/12/2012 17:25

Client ID: MW-15	Lab ID: C206089-04	Sampled: 05/30/12 16:05	Received: 06/01/12 13:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	06/27/12	06/12/12 07:38	6/12/2012 17:42

Client ID: MW-16	Lab ID: C206089-05	Sampled: 05/30/12 17:40	Received: 06/01/12 13:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	06/27/12	06/12/12 07:38	6/12/2012 17:58

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: MW-16 **Lab ID:** C206089-05

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Bromide	0.13	J	1	0.029	0.50	NE	mg/L	EPA 300.0	

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ANALYTICAL RESULTS

Description: MW-12S
Matrix: Ground Water
Project: Surry Co. Closed MSWLF - Mt. Airy

Lab Sample ID: C206089-01
Sampled: 05/30/12 13:35
Sampled By: Jonathan Pfohl

Received: 06/01/12 13:30
Work Order: C206089

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Bromide [24959-67-9] ^	0.029	U	mg/L	1	0.029	0.50		EPA 300.0	06/12/12 16:52	CCB	

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

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Description:	MW-13	**Lab Sample ID:**	C206089-02	**Received:**	06/01/12 13:30
Matrix:	Ground Water	**Sampled:**	05/30/12 17:00	**Work Order:**	C206089
Project:	Surry Co. Closed MSWLF - Mt. Airy	**Sampled By:**	Jonathan Pfohl		

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Bromide [24959-67-9] ^	0.029	U	mg/L	1	0.029	0.50		EPA 300.0	06/12/12 17:09	CCB	

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

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Description:	MW-14	**Lab Sample ID:**	C206089-03	**Received:**	06/01/12 13:30
Matrix:	Ground Water	**Sampled:**	06/01/12 10:00	**Work Order:**	C206089
Project:	Surry Co. Closed MSWLF - Mt. Airy	**Sampled By:**	Jonathan Pfohl		

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Bromide [24959-67-9] ^	0.029	U	mg/L	1	0.029	0.50		EPA 300.0	06/12/12 17:25	CCB	

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

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Description:	MW-15	**Lab Sample ID:**	C206089-04	**Received:**	06/01/12 13:30
Matrix:	Ground Water	**Sampled:**	05/30/12 16:05	**Work Order:**	C206089
Project:	Surry Co. Closed MSWLF - Mt. Airy	**Sampled By:**	Jonathan Pfohl		

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Bromide [24959-67-9] ^	0.029	U	mg/L	1	0.029	0.50		EPA 300.0	06/12/12 17:42	CCB	

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

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Description:	MW-16	**Lab Sample ID:**	C206089-05	**Received:**	06/01/12 13:30
Matrix:	Ground Water	**Sampled:**	05/30/12 17:40	**Work Order:**	C206089
Project:	Surry Co. Closed MSWLF - Mt. Airy	**Sampled By:**	Jonathan Pfohl		

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Bromide [24959-67-9] ^	**0.13**		mg/L	1	0.029	0.50		EPA 300.0	06/12/12 17:58	CCB	

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

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 2F12004 - NO PREP

Blank (2F12004-BLK1) Prepared: 06/12/2012 07:38 Analyzed: 06/12/2012 14:56

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Bromide	0.029	U	0.50	mg/L							

LCS (2F12004-BS1) Prepared: 06/12/2012 07:38 Analyzed: 06/12/2012 15:13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Bromide	2.5		0.50	mg/L	2.50		100	90-110			

Matrix Spike (2F12004-MS1) Prepared: 06/12/2012 07:38 Analyzed: 06/12/2012 16:19

Source: C206089-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Bromide	1.1		0.50	mg/L	1.00	0.029 U	105	90-110			

Matrix Spike Dup (2F12004-MSD1) Prepared: 06/12/2012 07:38 Analyzed: 06/12/2012 16:35

Source: C206089-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Bromide	1.1		0.50	mg/L	1.00	0.029 U	107	90-110	2	10	

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

www.encolabs.com

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 111
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

Page 1 of 1

Client Name: Municipal Engineering Services (MU001)	Project Number: G11024.Closed
Address: P.O. Box 97	Project Name/Desc: Surry Co. Closed MSWLF - Mt. Airy
City/ST/Zip: Garner, NC 27529	PO # / Billing Info:
Tel: (919) 772-5393 Fax: (919) 772-1176	Reporting Contact: Jonathan Pfohl
Sampler(s) Name, Affiliation (Print): JPfohl, MESCO	Billing Contact: Accounts Payable
Sampler(s) Signature:	Site Location / Time Zone:

Requested Analyses: ~~8260B Appendix 2.00 ug/L~~ ~~Acetone~~ ~~Methylene Chloride~~ ~~Methyl Ethyl Ketone~~ ~~Methyl Isobutyl Ketone~~ ~~Tetrahydrofuran~~ ~~Appendix 2~~; Sodium Bromide

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

✓ Standard

___ Expedited

Due ___/___/___

Lab Workorder: ~~C205688~~

Preservation (See Codes) (Combine as necessary): I

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers				Sample Comments
	~~Scalehouse~~	~~5/30/12~~	~~9:30AM~~	~~Grab~~	~~GW~~	~~2~~	X			C206089
	~~Extra~~				~~GW~~	~~2~~	X			
	MW-12S	5/30/12	1:35	Grab	GW	1		X		
	MW-13	5/30/12	5:00			1		X		
	MW-14	6/1/12	10:00			1		X		
	MW-15	5/30/12	4:05			1		X		
	MW-16	5/30/12	5:40			1		X		

<-- Total # of Containers

Sample Kit Prepared By: [signature]	Date/Time: 5/18/12	Relinquished By: [signature] / MESCO	Date/Time:	Received By: [signature]	Date/Time: 6/1/12 10:30
Comments/Special Reporting Requirements:		Relinquished By: [signature]	Date/Time: 6/1/12 1300	Received By: [signature] / MESCO Stamper	Date/Time: 6/1/12 1330
		Relinquished By:	Date/Time:	Received By:	Date/Time:
		Cooler #'s & Temps on Receipt: 2.7°C		Condition Upon Receipt: X Acceptable ___ Unacceptable	

Matrix : **GW**-Groundwater **SO**-Soil **DW**-Drinking Water **SE**-Sediment **SW**-Surface Water **WW**-Wastewater **A**-Air **O**-Other (detail in comments) **Preservation:** I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist