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

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

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

Instructions:

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

Solid Waste Monitoring Data Submittal Information

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

Buxton Environmental, Inc.

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

Name: Ross Klingman, P.G. Phone: 704-344-1450

E-mail: buxtonenv@bellsouth.net

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Alamance County - Closed Swepsonville Landfill	Alfred Road Graham, NC		.0500	March 13, 2012

Environmental Status: (Check all that apply)

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

Type of data submitted: (Check all that apply)

☒ Groundwater monitoring data from monitoring wells
☐ Groundwater monitoring data from private water supply wells
☐ Leachate monitoring data
☒ Surface water monitoring data
☐ Methane gas monitoring data
☐ Corrective action data (specify)
☐ Other(specify)

RECEIVED SOLID WASTE SECTION APR 19 2012

Notification attached?

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

Certification

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

Ross Klingman, P.G. President

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

4-17-12 Affix NC Licensed/ Professional Geologist Seal

Signature Date

1101 South Blvd. , Suite 101, Charlotte, NC 28203

Facility Representative Address

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

NORTH CAROLINA LICENSED SEAL 1266 GEOLOGIST CHARLES ROSS KLINGMAN 4-17-12

Revised 6/2009

FIRST SEMI-ANNUAL 2012
GROUNDWATER AND SURFACE WATER MONITORING EVENT
CLOSED SWEPSONVILLE LANDFILL
ALAMANCE COUNTY, NORTH CAROLINA

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FIRST SEMI-ANNUAL 2012
GROUNDWATER AND SURFACE WATER MONITORING EVENT
CLOSED SWEPSONVILLE LANDFILL
ALAMANCE COUNTY, NORTH CAROLINA

1.0 INTRODUCTION

Buxton Environmental, Inc. respectfully submits the methods and results of the first semi-annual 2012 groundwater and surface water monitoring activities conducted at the closed Swepsonville Landfill located in Alamance County, North Carolina. The purpose for conducting the assessment was to monitor water quality at the subject site. A site layout map is provided in Figure 1.

The monitoring activities were conducted in general accordance with the North Carolina Department of Environment and Natural Resources, Division of Waste Management-Solid Waste Section (NCDWM) rules, and NCDWM memorandums dated October 27, 2006, February 23, 2007 and October 16, 2007 concerning changes to laboratory detection limits and reporting requirements, and the NCDWM groundwater and surface water sampling guidelines dated April 2008. In addition, the North Carolina Ground Water Protection Standards (NCGPS's) presented in this report have been updated to reflect current standards.

A summary of background information, and the methods, results, conclusions and recommendations of this investigation are outlined below.

2.0 BACKGROUND INFORMATION

The Swepsonville Landfill operated as a municipal solid waste landfill until it was closed in 1993. To comply with NCDWM rules, semi-annual groundwater and surface water monitoring has been conducted at the site since October 1995. Water samples have been analyzed for Appendix I volatile organic compounds (VOC's) and metals plus mercury. Historical groundwater samples have indicated VOC's and metals above the North Carolina Groundwater Protection Standards (NCGPS's).

3.0 GROUNDWATER AND SURFACE WATER MONITORING ACTIVITIES

On March 13, 2012, Buxton Environmental, Inc. conducted the first semi-annual 2012 groundwater and surface water monitoring event at the subject site. Groundwater monitoring activities were conducted at ten monitor wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7A, MW-7B, MW-8A and MW-9. Monitor well MW-8B was dry due to recent drought conditions, therefore, was unable to be sampled. Two surface water samples SW-1 and SW-2 were collected from Haw Creek located to the east the landfill.

Prior to conducting the sampling activities, groundwater levels were obtained from each monitor well with a depth-to-water electrode to the nearest 0.01 foot. Following the gauging activities, each well was purged of three well bore volumes of water or until dryness with a disposable Teflon bailer attached to new nylon rope. Field parameters including pH, conductivity and temperature were collected at each well following purging and at surface water sample locations. Purge water was poured on the ground surface at respective well heads. Groundwater gauging and field parameter data are provided in Tables 1 and 2, respectively.

The groundwater and surface water samples were analyzed for Appendix I VOC's by EPA Method 8260B, Appendix I metals by EPA Method 6020A, and mercury by EPA Method 7470A. For quality control purposes, one trip blank was analyzed for Appendix I VOC's. The trip blank was prepared by the laboratory. The laboratory analyses were conducted by Shealy Environmental Services, Inc. in West Columbia, South Carolina. The water samples were collected in general accordance with accepted protocol, including chain-of-custody documentation.

4.0 GROUNDWATER AND SURFACE WATER ANALYTICAL RESULTS

The groundwater and surface water analytical results for the first semi-annual 2012 event are presented in Tables 2 and 3, respectively. Laboratory data sheets are presented in Appendix A.

Groundwater Analytical Results

Groundwater samples MW-1, MW-2, MW-4, MW-7A and MW-7B indicated target constituents above NCGPS's, which are summarized below.

Groundwater sample MW-1 indicated the presence of 1.6 micrograms per liter (ug/l) tetrachloroethene.

Groundwater sample MW-2 indicated the presence of 150 ug/l 1,1-dichloroethane, 3 ug/l 1,2-dichloroethane, 14 ug/l 1,1-dichloroethene, 82 ug/l cis-1,2-dichloroethene, 5.4 ug/l 1,2-dichloropropane, 34 ug/l tetrachloroethene, 63 ug/l trichloroethene and 8.1 ug/l vinyl chloride.

Groundwater sample MW-4 indicated the presence of 13 ug/l 1,4-dichlorobenzene, 86 ug/l 1,1-dichloroethane, 1.6 ug/l 1,2-dichloroethane, 300 ug/l cis-1,2-dichlroethene, 2.1 ug/l 1,2-dichloropropane, 25 ug/l vinyl chloride and 84 ug/l cobalt.

Groundwater sample MW-7A indicated the presence of 1.1 ug/l benzene, 5.2 ug/l tetrachloroethene, 6 ug/l trichloroethene and 2.1 ug/l vinyl chloride.

Groundwater sample MW-7B indicated the presence of 4.6 ug/l benzene, 17 ug/l 1,1-dichloroethane, 5.9 ug/l tetrachloroethene, 15 ug/l trichloroethene and 4.1 ug/l vinyl chloride.

The remaining groundwater samples MW-3, MW-5, MW-6, MW-8A and MW-9 did not indicate target constituents above NCGPS's.

Surface Water Analytical Results

Surface water samples SW-1 and SW-2 did not indicated the presence of Appendix I constituents above established North Carolina Surface Water and Wetland Standards (15A NCAC 02B) for Haw Creek (Class WS-V water) or EPA National Criteria standards (utilized by North Carolina Division of Water Quality as default standards for non listed parameters) (NCSWWS's).

Quality Control Analytical Results

The trip blank did not indicate target VOC's above method detection limits.

5.0 CONCLUSIONS

On March 13, 2012, Buxton Environmental, Inc. conducted the first semi-annual 2012 groundwater and surface water monitoring activities at the closed Swepsonville Landfill located in Alamance County, North Carolina. A summary of the findings of this investigation is provided below.

- Groundwater samples collected at MW-1, MW-2, MW-4, MW-7A and MW-7B indicated target constituents above NCGPS's.
- The surface water samples did not indicate target constituents above the NCSWWS's.

6.0 RECOMMENDATIONS

Based on the findings of this assessment, Buxton Environmental, Inc. makes the following recommendations.

- Semi-annual groundwater and surface water monitoring should continue to be conducted at the closed Swepsonville Landfill. The next sampling event is anticipated to be conducted in September 2012.
- A copy of this report should be forwarded to the NCDWM for their review.

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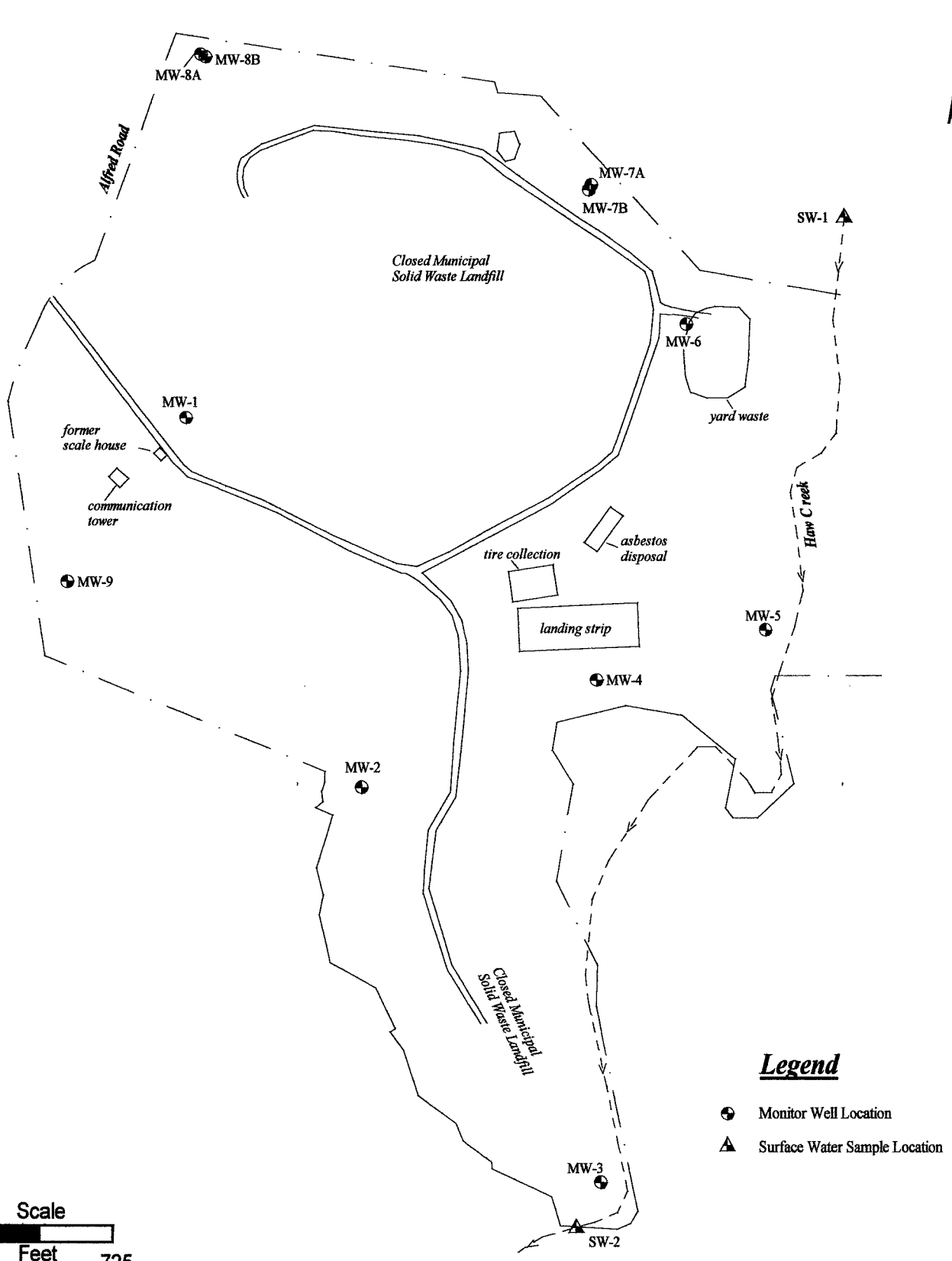
FIGURES



Source: "Monitoring Well and Surface Water Locations" map prepared by MACTEC Engineering & Consulting, Inc. in May 2004

Closed Swepsonville Landfill Alamance County, NC	Buxton Environmental, Inc.	Figure 1. Site Layout Map

TABLES

TABLE 1
GROUNDWATER GAUGING DATA
CLOSED SWEPSONVILLE LANDFILL
ALAMANCE COUNTY, NORTH CAROLINA
MARCH 13, 2012

Well ID	*TD BTOC (ft)*	*TOC Elevation (ft)*	*DTW BTOC (ft)*	*DTW Elevation (ft)*
MW-1	33.00	574.67	23.59	551.08
MW-2	29.90	510.67	27.90	482.77
MW-3	24.10	466.63	8.40	458.23
MW-4	50.00	497.57	30.80	466.77
MW-5	19.00	476.56	8.75	467.81
MW-6	50.00	529.50	23.00	506.50
MW-7A	31.05	554.12	20.62	533.50
MW-7B	64.02	553.09	23.10	529.99
MW-8A	65.00	591.08	26.07	565.01
MW-8B	26.00	591.25	dry	dry
MW-9	27.50	568.78	22.04	546.74

Notes:
Depth to water measurements obtained on March 13, 2012 to the nearest 0.01 foot with a depth to water meter.
TD=total depth;BTOC=below top of casing;TOC=top of casing;DTW=depth to water;ft=feet
TD and TOC elevation data obtained from the "Report of Semi-Annual Water Quality Monitoring, Swepsonville Landfill, Graham, Alamance Co., North Carolina" report prepared by MACTEC in April 2005

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TABLE 2
GROUNDWATER AND SURFACE WATER FIELD PARAMETER DATA
CLOSED SWEPSONVILLE LANDFILL
ALAMANCE COUNTY, NORTH CAROLINA
MARCH 13, 2012

Sample ID	*Field Parameters*		
	pH (standard units)	*K (uS)*	*T (fahrenheit)*
MW-1	5.73	115	65.8
MW-2	6.14	327	62.6
MW-3	6.73	99	58.2
MW-4	6.31	104	60.2
MW-5	6.93	261	55.4
MW-6	6.45	154	62.9
MW-7A	5.89	137	61.5
MW-7B	6.21	252	63.1
MW-8A	6.33	56	61.1
MW-8B	dry	dry	dry
MW-9	6.16	56	62.7
SW-1	7.50	108	63.2
SW-2	7.05	115	60.5

Notes:
Field parameters collected on March 13, 2012 by Buxton Environmental, Inc. utilizing EXTECH ExStik and ExStik II meters. Field parameters at monitor wells collected after purging 3 well volumes of water. Leachate and surface water field parameters collected immediately prior to sampling.
K = conductivity
T = temperature
uS = microsiemens

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TABLE 3
GROUNDWATER ANALYTICAL DATA
CLOSED SWEPSONVILLE LANDFILL
ALAMANCE COUNTY, NORTH CAROLINA
MARCH 13, 2012

Sample ID	*MW-1*	*MW-2*	*MW-3*	*MW-4*	*MW-5*	*MW-6*	*MW-7A*	*MW-7B*	*MW-8A*	*MW-8B*	*MW-9*	*NCGPS*
VOC's												
Benzene	BDL	0.84J	BDL	0.91J	BDL	BDL	**1.1**	**4.6**	BDL	NT	BDL	1
Chlorobenzene	BDL	0.87J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	50
Chloroethane	BDL	1.1J	BDL	8.2	BDL	BDL	BDL	3.6	BDL	NT	BDL	3,000
1,2-Dichlorobenzene	BDL	BDL	BDL	2.1	BDL	BDL	BDL	BDL	BDL	NT	BDL	20
1,4-Dichlorobenzene	BDL	4.1	BDL	**13**	BDL	BDL	0.51J	2.4	BDL	NT	BDL	6
1,1-Dichloroethane	BDL	**150**	BDL	**86**	BDL	BDL	5.4	**17**	BDL	NT	BDL	6
1,2-Dichloroethane	BDL	**3**	BDL	**1.6**	BDL	BDL	BDL	BDL	BDL	NT	BDL	0.4
1,1-Dichloroethene	BDL	**14**	BDL	0.52J	BDL	BDL	BDL	0.27J	BDL	NT	BDL	7
cis-1,2-Dichloroethene	BDL	**82**	0.3J	**300**	BDL	BDL	18	43	BDL	NT	BDL	70
trans-1,2-Dichloroethene	BDL	2	BDL	2.2	BDL	BDL	BDL	0.25J	BDL	NT	BDL	100
1,2-Dichloropropane	BDL	**5.4**	BDL	**2.1**	BDL	BDL	BDL	BDL	BDL	NT	BDL	0.6
Methylene Chloride	BDL	BDL	BDL	0.36J	BDL	BDL	BDL	0.62J	BDL	NT	BDL	5
Tetrachloroethene	**1.6**	**34**	BDL	BDL	BDL	BDL	**5.2**	**5.9**	BDL	NT	BDL	0.7
1,1,1-Trichloroethane	BDL	0.67J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	200
1,1,2-Trichloroethane	BDL	0.57J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	0.6
Trichloroethene	BDL	**63**	BDL	1.3	BDL	BDL	**6**	**15**	BDL	NT	BDL	3
Vinyl Chloride	BDL	**8.1**	BDL	**25**	BDL	BDL	**2.1**	**4.1**	BDL	NT	BDL	0.03
Metals												
Antimony	BDL	0.21J	BDL	BDL	0.7J	BDL	BDL	BDL	BDL	NT	BDL	1
Barium	120	170	50	130	72	76	59	140	14	NT	50	700
Beryllium	0.33J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	4
Cadmium	0.27	1.2	0.21	BDL	0.15	0.24	0.099J	0.19	0.24	NT	0.37	2
Chromium	BDL	0.85J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	10
Cobalt	0.42J	1.2J	0.17J	**84**	0.16J	2.1J	1J	0.25J	BDL	NT	1.9J	1
Copper	0.65J	1.7	0.49J	0.38J	1.6	0.27J	0.24J	0.58J	BDL	NT	0.59J	1,000
Lead	0.19J	7.9	0.1J	0.12J	0.075J	BDL	0.071J	BDL	BDL	NT	0.13J	15
Mercury	0.059J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	1
Nickel	0.41J	7.1	0.63J	4.9J	0.5J	0.41J	BDL	0.86J	BDL	NT	0.59J	100
Selenium	BDL	BDL	BDL	0.68J	BDL	BDL	BDL	BDL	BDL	NT	BDL	20
Silver	BDL	0.48J	0.083J	0.011J	0.055J	0.082J	0.028J	0.065J	0.085J	NT	0.14J	20
Thallium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	0.11J	0.2
Vanadium	BDL	3.6J	BDL	3J	BDL	BDL	BDL	BDL	BDL	NT	BDL	0.3
Zinc	BDL	8.3J	3J	3.5J	2.7J	2.7J	2.1J	2.3J	BDL	NT	2.9J	1,000

Notes:
Groundwater samples collected on March 13, 2012 and analyzed for Appendix I volatile organic compounds (VOC's) by EPA Method 8260B, Appendix I metals by EPA 6020A and mercury by EPA Method 7470A.
Analyses by Shealy Environmental Services, Inc. in West Columbia, SC.
NCGPS=North Carolina Groundwater Protection Standard
BDL=below detection limit
Bold and shade denotes above NCGPS
data presented in micrograms per liter (ug/l)
NT = not tested (limited water or dry well)
B = detected in method blank
J = estimated result <PQL and >=MDL

TABLE 4
SURFACE WATER ANALYTICAL DATA
CLOSED SWEPSONVILLE LANDFILL
ALAMANCE COUNTY, NORTH CAROLINA
MARCH 13, 2012

Sample ID	***SW-1***	***SW-2***	***NCSWWS***
Volatile Organic Compounds			
cis-1,2-Dichloroethene	BDL	0.41J	330
Metals			
Barium	25	29	1,000
Cadmium	0.42	BDL	2
Cobalt	0.2J	0.33J	3
Copper	1.2	0.96J	7
Lead	0.19J	0.18J	25
Mercury	BDL	BDL	0.012
Silver	0.16J	BDL	0.06
Zinc	3.7J	1.5J	50

Notes:
Surface water samples collected on March 13, 2012 and analyzed for Appendix I volatile organic compounds (VOC's) by EPA Method 8260B, Appendix I metals by EPA 6020A, & mercury by EPA Method 7470A. Analyses by Shealy Environmental Services, Inc. in West Columbia, SC.
BDL=below detection limit; NA = not applicable
NCGPS=North Carolina Groundwater Protection Standard
NCSWWS = North Carolina Surface Water and Wetland Standards (15A NCAC 02B) for Haw Creek (Class WS-V Water) or are EPA National Criteria.
Bold and shade denotes above established NCSWWS
data presented in micrograms per liter (ug/l)
B = detected in method blank
J = estimated result <PQL and >=MDL
NS = no standard

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APPENDIX A
LABORATORY DATA SHEETS

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

Buxton Environmental
PO Box 11550
Charlotte, NC 28220
Attention: Ross Klingman

Project Name: **Alamace Co. Swepsonville Landfill**

Lot Number: **NC14071**
Date Completed: **03/21/2012**

Nisreen Saikaly
Project Manager

This report shall not be reproduced, except in its entirety, without the written approval of Shealy Environmental Services, Inc.

The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

• • • • • • • • •

Case Narrative
Buxton Environmental
Lot Number: NC14071

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

Sample Summary
Buxton Environmental
Lot Number: NC14071

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	MW-1	Aqueous	03/13/2012 1530	03/14/2012
002	MW-2	Aqueous	03/13/2012 1730	03/14/2012
003	MW-3	Aqueous	03/13/2012 1815	03/14/2012
004	MW-4	Aqueous	03/13/2012 1900	03/14/2012
005	MW-5	Aqueous	03/13/2012 1915	03/14/2012
006	MW-6	Aqueous	03/13/2012 1620	03/14/2012
007	MW-7A	Aqueous	03/13/2012 1645	03/14/2012
008	MW-7B	Aqueous	03/13/2012 1700	03/14/2012
009	MW-8A	Aqueous	03/13/2012 1715	03/14/2012
010	MW-9	Aqueous	03/13/2012 1545	03/14/2012
011	SW-1	Aqueous	03/13/2012 1630	03/14/2012
012	SW-2	Aqueous	03/13/2012 1830	03/14/2012
013	Trip Blank	Aqueous	03/13/2012	03/14/2012

(13 samples)

Executive Summary
Buxton Environmental
Lot Number: NC14071

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	MW-1	Aqueous	Tetrachloroethene	8260B	1.6		ug/L	8
001	MW-1	Aqueous	Barium	6020A	120		ug/L	10
001	MW-1	Aqueous	Beryllium	6020A	0.33	J	ug/L	10
001	MW-1	Aqueous	Cadmium	6020A	0.27		ug/L	10
001	MW-1	Aqueous	Cobalt	6020A	0.42	J	ug/L	10
001	MW-1	Aqueous	Copper	6020A	0.65	J	ug/L	10
001	MW-1	Aqueous	Lead	6020A	0.19	J	ug/L	10
001	MW-1	Aqueous	Nickel	6020A	0.41	J	ug/L	10
001	MW-1	Aqueous	Silver	6020A	0.097	J	ug/L	10
001	MW-1	Aqueous	Zinc	6020A	9.3	J	ug/L	10
001	MW-1	Aqueous	Mercury	7470A	0.000059	J	mg/L	11
002	MW-2	Aqueous	Benzene	8260B	0.84	J	ug/L	12
002	MW-2	Aqueous	Chlorobenzene	8260B	0.87	J	ug/L	12
002	MW-2	Aqueous	Chloroethane	8260B	1.1	J	ug/L	12
002	MW-2	Aqueous	1,4-Dichlorobenzene	8260B	4.1		ug/L	12
002	MW-2	Aqueous	1,1-Dichloroethane	8260B	150		ug/L	12
002	MW-2	Aqueous	1,2-Dichloroethane	8260B	3.0		ug/L	12
002	MW-2	Aqueous	1,1-Dichloroethene	8260B	14		ug/L	12
002	MW-2	Aqueous	cis-1,2-Dichloroethene	8260B	82		ug/L	12
002	MW-2	Aqueous	trans-1,2-Dichloroethene	8260B	2.0		ug/L	12
002	MW-2	Aqueous	1,2-Dichloropropane	8260B	5.4		ug/L	12
002	MW-2	Aqueous	Tetrachloroethene	8260B	34		ug/L	12
002	MW-2	Aqueous	1,1,1-Trichloroethane	8260B	0.67	J	ug/L	12
002	MW-2	Aqueous	1,1,2-Trichloroethane	8260B	0.57	J	ug/L	12
002	MW-2	Aqueous	Trichloroethene	8260B	63		ug/L	12
002	MW-2	Aqueous	Vinyl chloride	8260B	8.1		ug/L	13
002	MW-2	Aqueous	Antimony	6020A	0.21	J	ug/L	14
002	MW-2	Aqueous	Barium	6020A	170		ug/L	14
002	MW-2	Aqueous	Cadmium	6020A	1.2		ug/L	14
002	MW-2	Aqueous	Chromium	6020A	0.85	J	ug/L	14
002	MW-2	Aqueous	Cobalt	6020A	1.2	J	ug/L	14
002	MW-2	Aqueous	Copper	6020A	1.7		ug/L	14
002	MW-2	Aqueous	Lead	6020A	7.9		ug/L	14
002	MW-2	Aqueous	Nickel	6020A	7.1		ug/L	14
002	MW-2	Aqueous	Silver	6020A	0.48	J	ug/L	14
002	MW-2	Aqueous	Vanadium	6020A	3.6	J	ug/L	14
002	MW-2	Aqueous	Zinc	6020A	8.3	J	ug/L	14
003	MW-3	Aqueous	cis-1,2-Dichloroethene	8260B	0.30	J	ug/L	16
003	MW-3	Aqueous	Barium	6020A	50		ug/L	18
003	MW-3	Aqueous	Cadmium	6020A	0.21		ug/L	18
003	MW-3	Aqueous	Cobalt	6020A	0.17	J	ug/L	18
003	MW-3	Aqueous	Copper	6020A	0.49	J	ug/L	18
003	MW-3	Aqueous	Lead	6020A	0.10	J	ug/L	18
003	MW-3	Aqueous	Nickel	6020A	0.63	J	ug/L	18
003	MW-3	Aqueous	Silver	6020A	0.083	J	ug/L	18

Executive Summary (Continued)

Lot Number: NC14071

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
003	MW-3	Aqueous	Zinc	6020A	3.0	J	ug/L	18
004	MW-4	Aqueous	Benzene	8260B	0.91	J	ug/L	20
004	MW-4	Aqueous	Chloroethane	8260B	8.2		ug/L	20
004	MW-4	Aqueous	1,2-Dichlorobenzene	8260B	2.1		ug/L	20
004	MW-4	Aqueous	1,4-Dichlorobenzene	8260B	13		ug/L	20
004	MW-4	Aqueous	1,1-Dichloroethane	8260B	86		ug/L	20
004	MW-4	Aqueous	1,2-Dichloroethane	8260B	1.6		ug/L	20
004	MW-4	Aqueous	1,1-Dichloroethene	8260B	0.52	J	ug/L	20
004	MW-4	Aqueous	cis-1,2-Dichloroethene	8260B	300		ug/L	20
004	MW-4	Aqueous	trans-1,2-Dichloroethene	8260B	2.2		ug/L	20
004	MW-4	Aqueous	1,2-Dichloropropane	8260B	2.1		ug/L	20
004	MW-4	Aqueous	Methylene chloride	8260B	0.36	J	ug/L	20
004	MW-4	Aqueous	Trichloroethene	8260B	1.3		ug/L	20
004	MW-4	Aqueous	Vinyl chloride	8260B	25		ug/L	21
004	MW-4	Aqueous	Barium	6020A	130		ug/L	22
004	MW-4	Aqueous	Cobalt	6020A	84		ug/L	22
004	MW-4	Aqueous	Copper	6020A	0.38	J	ug/L	22
004	MW-4	Aqueous	Lead	6020A	0.12	J	ug/L	22
004	MW-4	Aqueous	Nickel	6020A	4.9	J	ug/L	22
004	MW-4	Aqueous	Selenium	6020A	0.68	J	ug/L	22
004	MW-4	Aqueous	Silver	6020A	0.011	J	ug/L	22
004	MW-4	Aqueous	Vanadium	6020A	3.0	J	ug/L	22
004	MW-4	Aqueous	Zinc	6020A	3.5	J	ug/L	22
005	MW-5	Aqueous	Antimony	6020A	0.70	J	ug/L	26
005	MW-5	Aqueous	Barium	6020A	72		ug/L	26
005	MW-5	Aqueous	Cadmium	6020A	0.15		ug/L	26
005	MW-5	Aqueous	Cobalt	6020A	0.16	J	ug/L	26
005	MW-5	Aqueous	Copper	6020A	1.6		ug/L	26
005	MW-5	Aqueous	Lead	6020A	0.075	J	ug/L	26
005	MW-5	Aqueous	Nickel	6020A	0.50	J	ug/L	26
005	MW-5	Aqueous	Silver	6020A	0.055	J	ug/L	26
005	MW-5	Aqueous	Zinc	6020A	2.7	J	ug/L	26
006	MW-6	Aqueous	Barium	6020A	76		ug/L	30
006	MW-6	Aqueous	Cadmium	6020A	0.24		ug/L	30
006	MW-6	Aqueous	Cobalt	6020A	2.1	J	ug/L	30
006	MW-6	Aqueous	Copper	6020A	0.27	J	ug/L	30
006	MW-6	Aqueous	Nickel	6020A	0.41	J	ug/L	30
006	MW-6	Aqueous	Silver	6020A	0.082	J	ug/L	30
006	MW-6	Aqueous	Zinc	6020A	2.7	J	ug/L	30
007	MW-7A	Aqueous	Benzene	8260B	1.1		ug/L	32
007	MW-7A	Aqueous	1,4-Dichlorobenzene	8260B	0.51	J	ug/L	32
007	MW-7A	Aqueous	1,1-Dichloroethane	8260B	5.4		ug/L	32
007	MW-7A	Aqueous	cis-1,2-Dichloroethene	8260B	18		ug/L	32
007	MW-7A	Aqueous	Tetrachloroethene	8260B	5.2		ug/L	32
007	MW-7A	Aqueous	Trichloroethene	8260B	6.0		ug/L	32
007	MW-7A	Aqueous	Vinyl chloride	8260B	2.1		ug/L	33
007	MW-7A	Aqueous	Barium	6020A	59		ug/L	34
007	MW-7A	Aqueous	Cadmium	6020A	0.099	J	ug/L	34

Executive Summary (Continued)

Lot Number: NC14071

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
007	MW-7A	Aqueous	Cobalt	6020A	1.0	J	ug/L	34
007	MW-7A	Aqueous	Copper	6020A	0.24	J	ug/L	34
007	MW-7A	Aqueous	Lead	6020A	0.071	J	ug/L	34
007	MW-7A	Aqueous	Silver	6020A	0.028	J	ug/L	34
007	MW-7A	Aqueous	Zinc	6020A	2.1	J	ug/L	34
008	MW-7B	Aqueous	Benzene	8260B	4.6		ug/L	36
008	MW-7B	Aqueous	Chloroethane	8260B	3.6		ug/L	36
008	MW-7B	Aqueous	1,4-Dichlorobenzene	8260B	2.4		ug/L	36
008	MW-7B	Aqueous	1,1-Dichloroethane	8260B	17		ug/L	36
008	MW-7B	Aqueous	1,1-Dichloroethene	8260B	0.27	J	ug/L	36
008	MW-7B	Aqueous	cis-1,2-Dichloroethene	8260B	43		ug/L	36
008	MW-7B	Aqueous	trans-1,2-Dichloroethene	8260B	0.25	J	ug/L	36
008	MW-7B	Aqueous	Methylene chloride	8260B	0.62	J	ug/L	36
008	MW-7B	Aqueous	Tetrachloroethene	8260B	5.9		ug/L	36
008	MW-7B	Aqueous	Trichloroethene	8260B	15		ug/L	36
008	MW-7B	Aqueous	Vinyl chloride	8260B	4.1		ug/L	37
008	MW-7B	Aqueous	Barium	6020A	140		ug/L	38
008	MW-7B	Aqueous	Cadmium	6020A	0.19		ug/L	38
008	MW-7B	Aqueous	Cobalt	6020A	0.25	J	ug/L	38
008	MW-7B	Aqueous	Copper	6020A	0.58	J	ug/L	38
008	MW-7B	Aqueous	Nickel	6020A	0.86	J	ug/L	38
008	MW-7B	Aqueous	Silver	6020A	0.065	J	ug/L	38
008	MW-7B	Aqueous	Zinc	6020A	2.3	J	ug/L	38
009	MW-8A	Aqueous	Barium	6020A	14		ug/L	42
009	MW-8A	Aqueous	Cadmium	6020A	0.24		ug/L	42
009	MW-8A	Aqueous	Silver	6020A	0.085	J	ug/L	42
010	MW-9	Aqueous	Barium	6020A	50		ug/L	46
010	MW-9	Aqueous	Cadmium	6020A	0.37		ug/L	46
010	MW-9	Aqueous	Cobalt	6020A	1.9	J	ug/L	46
010	MW-9	Aqueous	Copper	6020A	0.59	J	ug/L	46
010	MW-9	Aqueous	Lead	6020A	0.13	J	ug/L	46
010	MW-9	Aqueous	Nickel	6020A	0.59	J	ug/L	46
010	MW-9	Aqueous	Silver	6020A	0.14	J	ug/L	46
010	MW-9	Aqueous	Thallium	6020A	0.11	J	ug/L	46
010	MW-9	Aqueous	Zinc	6020A	2.9	J	ug/L	46
011	SW-1	Aqueous	Barium	6020A	25		ug/L	50
011	SW-1	Aqueous	Cadmium	6020A	0.42		ug/L	50
011	SW-1	Aqueous	Cobalt	6020A	0.20	J	ug/L	50
011	SW-1	Aqueous	Copper	6020A	1.2		ug/L	50
011	SW-1	Aqueous	Lead	6020A	0.19	J	ug/L	50
011	SW-1	Aqueous	Silver	6020A	0.16	J	ug/L	50
011	SW-1	Aqueous	Zinc	6020A	3.7	J	ug/L	50
012	SW-2	Aqueous	cis-1,2-Dichloroethene	8260B	0.41	J	ug/L	52
012	SW-2	Aqueous	Barium	6020A	29		ug/L	54
012	SW-2	Aqueous	Cobalt	6020A	0.33	J	ug/L	54
012	SW-2	Aqueous	Copper	6020A	0.96	J	ug/L	54
012	SW-2	Aqueous	Lead	6020A	0.18	J	ug/L	54
012	SW-2	Aqueous	Zinc	6020A	1.5	J	ug/L	54

Executive Summary (Continued)

Lot Number: NC14071

Sample Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page

(141 detections)

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **NC14071-001**
Description: **MW-1**
Matrix: **Aqueous**
Date Sampled: **03/13/2012 1530**
Date Received: **03/14/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	03/17/2012 1740	DD		80460

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	1.2	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	0.35	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	0.83	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	**127-18-4**	**8260B**	**1.6**		**1.0**	**0.13**	**ug/L**	**1**
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **NC14071-001**
Description: **MW-1**
Matrix: **Aqueous**
Date Sampled: **03/13/2012 1530**
Date Received: **03/14/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	03/17/2012 1740	DD		80460

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		5.0	1.3	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	70-130
Bromofluorobenzene		99	70-130
Toluene-d8		98	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

ICP-MS

Client: **Buxton Environmental**
Laboratory ID: **NC14071-001**
Description: **MW-1**
Matrix: **Aqueous**
Date Sampled: **03/13/2012 1530**
Date Received: **03/14/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6020A	1	03/19/2012 1910	KJC	03/15/2012 1651	80316

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Antimony	7440-36-0	6020A	ND		1.0	0.097	ug/L	1
Arsenic	7440-38-2	6020A	ND		1.0	0.26	ug/L	1
Barium	**7440-39-3**	**6020A**	**120**		**5.0**	**0.045**	**ug/L**	**1**
Beryllium	**7440-41-7**	**6020A**	**0.33**	**J**	**0.40**	**0.028**	**ug/L**	**1**
Cadmium	**7440-43-9**	**6020A**	**0.27**		**0.10**	**0.059**	**ug/L**	**1**
Chromium	7440-47-3	6020A	ND		5.0	0.35	ug/L	1
Cobalt	**7440-48-4**	**6020A**	**0.42**	**J**	**5.0**	**0.029**	**ug/L**	**1**
Copper	**7440-50-8**	**6020A**	**0.65**	**J**	**1.0**	**0.15**	**ug/L**	**1**
Lead	**7439-92-1**	**6020A**	**0.19**	**J**	**1.0**	**0.047**	**ug/L**	**1**
Nickel	**7440-02-0**	**6020A**	**0.41**	**J**	**5.0**	**0.28**	**ug/L**	**1**
Selenium	7782-49-2	6020A	ND		1.0	0.25	ug/L	1
Silver	**7440-22-4**	**6020A**	**0.097**	**J**	**1.0**	**0.011**	**ug/L**	**1**
Thallium	7440-28-0	6020A	ND		0.50	0.076	ug/L	1
Vanadium	7440-62-2	6020A	ND		5.0	1.5	ug/L	1
Zinc	**7440-66-6**	**6020A**	**9.3**	**J**	**10**	**1.5**	**ug/L**	**1**

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

CVAA

Client: **Buxton Environmental**
Laboratory ID: **NC14071-001**
Description: **MW-1**
Matrix: **Aqueous**
Date Sampled: **03/13/2012 1530**
Date Received: **03/14/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	03/15/2012 1531	COH	03/15/2012 0943	80257

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Mercury	**7439-97-6**	**7470A**	**0.000059**	**J**	**0.00010**	**0.000053**	**mg/L**	**1**

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **NC14071-002**
Description: **MW-2**
Matrix: **Aqueous**
Date Sampled: **03/13/2012 1730**
Date Received: **03/14/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B	1	03/20/2012 1759	AAC		80641

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	2
Acrylonitrile	107-13-1	8260B	ND		20	1.2	ug/L	2
Benzene	**71-43-2**	**8260B**	**0.84**	**J**	**1.0**	**0.13**	**ug/L**	**2**
Bromochloromethane	74-97-5	8260B	ND		1.0	0.16	ug/L	2
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	2
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	2
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	2
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	2
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	2
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	2
Chlorobenzene	**108-90-7**	**8260B**	**0.87**	**J**	**1.0**	**0.33**	**ug/L**	**2**
Chloroethane	**75-00-3**	**8260B**	**1.1**	**J**	**2.0**	**0.47**	**ug/L**	**2**
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	2
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	2
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	0.60	ug/L	2
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	2
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	2
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	0.35	ug/L	2
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	0.83	ug/L	2
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	2
1,4-Dichlorobenzene	**106-46-7**	**8260B**	**4.1**		**1.0**	**0.33**	**ug/L**	**2**
1,1-Dichloroethane	**75-34-3**	**8260B**	**150**		**1.0**	**0.13**	**ug/L**	**2**
1,2-Dichloroethane	**107-06-2**	**8260B**	**3.0**		**1.0**	**0.15**	**ug/L**	**2**
1,1-Dichloroethene	**75-35-4**	**8260B**	**14**		**1.0**	**0.16**	**ug/L**	**2**
cis-1,2-Dichloroethene	**156-59-2**	**8260B**	**82**		**1.0**	**0.12**	**ug/L**	**2**
trans-1,2-Dichloroethene	**156-60-5**	**8260B**	**2.0**		**1.0**	**0.21**	**ug/L**	**2**
1,2-Dichloropropane	**78-87-5**	**8260B**	**5.4**		**1.0**	**0.19**	**ug/L**	**2**
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	2
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	2
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	2
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	2
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	1.2	ug/L	2
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	2
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	2
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	2
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	2
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	2
Tetrachloroethene	**127-18-4**	**8260B**	**34**		**1.0**	**0.13**	**ug/L**	**2**
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	2
1,1,1-Trichloroethane	**71-55-6**	**8260B**	**0.67**	**J**	**1.0**	**0.074**	**ug/L**	**2**
1,1,2-Trichloroethane	**79-00-5**	**8260B**	**0.57**	**J**	**1.0**	**0.21**	**ug/L**	**2**
Trichloroethene	**79-01-6**	**8260B**	**63**		**1.0**	**0.18**	**ug/L**	**2**
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	2
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	2

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **NC14071-002**
Description: **MW-2**
Matrix: **Aqueous**
Date Sampled: **03/13/2012 1730**
Date Received: **03/14/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B	1	03/20/2012 1759	AAC		80641

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		5.0	1.3	ug/L	2
Vinyl chloride	**75-01-4**	**8260B**	**8.1**		**1.0**	**0.054**	**ug/L**	**2**
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		103	70-130
Bromofluorobenzene		110	70-130
Toluene-d8		94	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
* = Reportable result (only when report all runs)
H = Out of holding time
N = Recovery is out of criteria

ICP-MS

Client: **Buxton Environmental**
Laboratory ID: **NC14071-002**
Description: **MW-2**
Matrix: **Aqueous**
Date Sampled: **03/13/2012 1730**
Date Received: **03/14/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6020A	1	03/19/2012 1958	KJC	03/15/2012 1651	80316

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Antimony	**7440-36-0**	**6020A**	**0.21**	**J**	**1.0**	**0.097**	**ug/L**	**1**
Arsenic	7440-38-2	6020A	ND		1.0	0.26	ug/L	1
Barium	**7440-39-3**	**6020A**	**170**		**5.0**	**0.045**	**ug/L**	**1**
Beryllium	7440-41-7	6020A	ND		0.40	0.028	ug/L	1
Cadmium	**7440-43-9**	**6020A**	**1.2**		**0.10**	**0.059**	**ug/L**	**1**
Chromium	**7440-47-3**	**6020A**	**0.85**	**J**	**5.0**	**0.35**	**ug/L**	**1**
Cobalt	**7440-48-4**	**6020A**	**1.2**	**J**	**5.0**	**0.029**	**ug/L**	**1**
Copper	**7440-50-8**	**6020A**	**1.7**		**1.0**	**0.15**	**ug/L**	**1**
Lead	**7439-92-1**	**6020A**	**7.9**		**1.0**	**0.047**	**ug/L**	**1**
Nickel	**7440-02-0**	**6020A**	**7.1**		**5.0**	**0.28**	**ug/L**	**1**
Selenium	7782-49-2	6020A	ND		1.0	0.25	ug/L	1
Silver	**7440-22-4**	**6020A**	**0.48**	**J**	**1.0**	**0.011**	**ug/L**	**1**
Thallium	7440-28-0	6020A	ND		0.50	0.076	ug/L	1
Vanadium	**7440-62-2**	**6020A**	**3.6**	**J**	**5.0**	**1.5**	**ug/L**	**1**
Zinc	**7440-66-6**	**6020A**	**8.3**	**J**	**10**	**1.5**	**ug/L**	**1**

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CVAA

Client: **Buxton Environmental**
Laboratory ID: **NC14071-002**
Description: **MW-2**
Matrix: **Aqueous**
Date Sampled: **03/13/2012 1730**
Date Received: **03/14/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	03/15/2012 1533	COH	03/15/2012 0943	80257

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Mercury	7439-97-6	7470A	ND		0.00010	0.000053	mg/L	1

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Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **NC14071-003**
Description: **MW-3**
Matrix: **Aqueous**
Date Sampled: **03/13/2012 1815**
Date Received: **03/14/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	03/17/2012 1827	DD		80460

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	1.2	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	0.35	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	0.83	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
cis-1,2-Dichloroethene	**156-59-2**	**8260B**	**0.30**	**J**	**1.0**	**0.12**	**ug/L**	**1**
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1

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Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **NC14071-003**
Description: **MW-3**
Matrix: **Aqueous**
Date Sampled: **03/13/2012 1815**
Date Received: **03/14/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	03/17/2012 1827	DD		80460

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		5.0	1.3	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		103	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		98	70-130

PQL = Practical quantitation limit
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Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
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H = Out of holding time
N = Recovery is out of criteria

ICP-MS

Client: **Buxton Environmental**
Laboratory ID: **NC14071-003**
Description: **MW-3**
Matrix: **Aqueous**
Date Sampled: **03/13/2012 1815**
Date Received: **03/14/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6020A	1	03/19/2012 2014	KJC	03/15/2012 1651	80316

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Antimony	7440-36-0	6020A	ND		1.0	0.097	ug/L	1
Arsenic	7440-38-2	6020A	ND		1.0	0.26	ug/L	1
Barium	**7440-39-3**	**6020A**	**50**		**5.0**	**0.045**	**ug/L**	**1**
Beryllium	7440-41-7	6020A	ND		0.40	0.028	ug/L	1
Cadmium	**7440-43-9**	**6020A**	**0.21**		**0.10**	**0.059**	**ug/L**	**1**
Chromium	7440-47-3	6020A	ND		5.0	0.35	ug/L	1
Cobalt	**7440-48-4**	**6020A**	**0.17**	**J**	**5.0**	**0.029**	**ug/L**	**1**
Copper	**7440-50-8**	**6020A**	**0.49**	**J**	**1.0**	**0.15**	**ug/L**	**1**
Lead	**7439-92-1**	**6020A**	**0.10**	**J**	**1.0**	**0.047**	**ug/L**	**1**
Nickel	**7440-02-0**	**6020A**	**0.63**	**J**	**5.0**	**0.28**	**ug/L**	**1**
Selenium	7782-49-2	6020A	ND		1.0	0.25	ug/L	1
Silver	**7440-22-4**	**6020A**	**0.083**	**J**	**1.0**	**0.011**	**ug/L**	**1**
Thallium	7440-28-0	6020A	ND		0.50	0.076	ug/L	1
Vanadium	7440-62-2	6020A	ND		5.0	1.5	ug/L	1
Zinc	**7440-66-6**	**6020A**	**3.0**	**J**	**10**	**1.5**	**ug/L**	**1**

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CVAA

Client: **Buxton Environmental**
Laboratory ID: **NC14071-003**
Description: **MW-3**
Matrix: **Aqueous**
Date Sampled: **03/13/2012 1815**
Date Received: **03/14/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	03/15/2012 1536	COH	03/15/2012 0943	80257

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Mercury	7439-97-6	7470A	ND		0.00010	0.000053	mg/L	1

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Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **NC14071-004**
Description: **MW-4**
Matrix: **Aqueous**
Date Sampled: **03/13/2012 1900**
Date Received: **03/14/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	03/17/2012 1850	DD		80460
2	5030B	8260B	1	03/20/2012 1713	AAC		80641

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	1.2	ug/L	1
Benzene	**71-43-2**	**8260B**	**0.91**	**J**	**1.0**	**0.13**	**ug/L**	**1**
Bromochloromethane	74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.33	ug/L	1
Chloroethane	**75-00-3**	**8260B**	**8.2**		**2.0**	**0.47**	**ug/L**	**2**
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	0.35	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	0.83	ug/L	1
1,2-Dichlorobenzene	**95-50-1**	**8260B**	**2.1**		**1.0**	**0.33**	**ug/L**	**1**
1,4-Dichlorobenzene	**106-46-7**	**8260B**	**13**		**1.0**	**0.33**	**ug/L**	**1**
1,1-Dichloroethane	**75-34-3**	**8260B**	**86**		**1.0**	**0.13**	**ug/L**	**1**
1,2-Dichloroethane	**107-06-2**	**8260B**	**1.6**		**1.0**	**0.15**	**ug/L**	**1**
1,1-Dichloroethene	**75-35-4**	**8260B**	**0.52**	**J**	**1.0**	**0.16**	**ug/L**	**1**
cis-1,2-Dichloroethene	**156-59-2**	**8260B**	**300**		**1.0**	**0.12**	**ug/L**	**1**
trans-1,2-Dichloroethene	**156-60-5**	**8260B**	**2.2**		**1.0**	**0.21**	**ug/L**	**1**
1,2-Dichloropropane	**78-87-5**	**8260B**	**2.1**		**1.0**	**0.19**	**ug/L**	**1**
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	**75-09-2**	**8260B**	**0.36**	**J**	**1.0**	**0.33**	**ug/L**	**1**
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	**79-01-6**	**8260B**	**1.3**		**1.0**	**0.18**	**ug/L**	**1**
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1

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N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **NC14071-004**
Description: **MW-4**
Matrix: **Aqueous**
Date Sampled: **03/13/2012 1900**
Date Received: **03/14/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	03/17/2012 1850	DD		80460
2	5030B	8260B	1	03/20/2012 1713	AAC		80641

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	1.3	ug/L	1
Vinyl chloride	**75-01-4**	**8260B**	**25**		**1.0**	**0.054**	**ug/L**	**2**
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		103	70-130		100	70-130
Bromofluorobenzene		99	70-130		109	70-130
Toluene-d8		99	70-130		93	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

ICP-MS

Client: **Buxton Environmental**
Laboratory ID: **NC14071-004**
Description: **MW-4**
Matrix: **Aqueous**
Date Sampled: **03/13/2012 1900**
Date Received: **03/14/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6020A	1	03/19/2012 2022	KJC	03/15/2012 1651	80316

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Antimony	7440-36-0	6020A	ND		1.0	0.097	ug/L	1
Arsenic	7440-38-2	6020A	ND		1.0	0.26	ug/L	1
Barium	**7440-39-3**	**6020A**	**130**		**5.0**	**0.045**	**ug/L**	**1**
Beryllium	7440-41-7	6020A	ND		0.40	0.028	ug/L	1
Cadmium	7440-43-9	6020A	ND		0.10	0.059	ug/L	1
Chromium	7440-47-3	6020A	ND		5.0	0.35	ug/L	1
Cobalt	**7440-48-4**	**6020A**	**84**		**5.0**	**0.029**	**ug/L**	**1**
Copper	**7440-50-8**	**6020A**	**0.38**	**J**	**1.0**	**0.15**	**ug/L**	**1**
Lead	**7439-92-1**	**6020A**	**0.12**	**J**	**1.0**	**0.047**	**ug/L**	**1**
Nickel	**7440-02-0**	**6020A**	**4.9**	**J**	**5.0**	**0.28**	**ug/L**	**1**
Selenium	**7782-49-2**	**6020A**	**0.68**	**J**	**1.0**	**0.25**	**ug/L**	**1**
Silver	**7440-22-4**	**6020A**	**0.011**	**J**	**1.0**	**0.011**	**ug/L**	**1**
Thallium	7440-28-0	6020A	ND		0.50	0.076	ug/L	1
Vanadium	**7440-62-2**	**6020A**	**3.0**	**J**	**5.0**	**1.5**	**ug/L**	**1**
Zinc	**7440-66-6**	**6020A**	**3.5**	**J**	**10**	**1.5**	**ug/L**	**1**

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

CVAA

Client: **Buxton Environmental**
Laboratory ID: **NC14071-004**
Description: **MW-4**
Matrix: **Aqueous**
Date Sampled: **03/13/2012 1900**
Date Received: **03/14/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	03/15/2012 1551	COH	03/15/2012 0943	80257

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Mercury	7439-97-6	7470A	ND		0.00010	0.000053	mg/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **NC14071-005**
Description: **MW-5**
Matrix: **Aqueous**
Date Sampled: **03/13/2012 1915**
Date Received: **03/14/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	03/17/2012 1912	DD		80460

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	1.2	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	0.35	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	0.83	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **NC14071-005**
Description: **MW-5**
Matrix: **Aqueous**
Date Sampled: **03/13/2012 1915**
Date Received: **03/14/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	03/17/2012 1912	DD		80460

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		5.0	1.3	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		103	70-130
Bromofluorobenzene		99	70-130
Toluene-d8		97	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

ICP-MS

Client: **Buxton Environmental**
Laboratory ID: **NC14071-005**
Description: **MW-5**
Matrix: **Aqueous**
Date Sampled: **03/13/2012 1915**
Date Received: **03/14/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6020A	1	03/19/2012 2030	KJC	03/15/2012 1651	80316

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Antimony	**7440-36-0**	**6020A**	**0.70**	**J**	**1.0**	**0.097**	**ug/L**	**1**
Arsenic	7440-38-2	6020A	ND		1.0	0.26	ug/L	1
Barium	**7440-39-3**	**6020A**	**72**		**5.0**	**0.045**	**ug/L**	**1**
Beryllium	7440-41-7	6020A	ND		0.40	0.028	ug/L	1
Cadmium	**7440-43-9**	**6020A**	**0.15**		**0.10**	**0.059**	**ug/L**	**1**
Chromium	7440-47-3	6020A	ND		5.0	0.35	ug/L	1
Cobalt	**7440-48-4**	**6020A**	**0.16**	**J**	**5.0**	**0.029**	**ug/L**	**1**
Copper	**7440-50-8**	**6020A**	**1.6**		**1.0**	**0.15**	**ug/L**	**1**
Lead	**7439-92-1**	**6020A**	**0.075**	**J**	**1.0**	**0.047**	**ug/L**	**1**
Nickel	**7440-02-0**	**6020A**	**0.50**	**J**	**5.0**	**0.28**	**ug/L**	**1**
Selenium	7782-49-2	6020A	ND		1.0	0.25	ug/L	1
Silver	**7440-22-4**	**6020A**	**0.055**	**J**	**1.0**	**0.011**	**ug/L**	**1**
Thallium	7440-28-0	6020A	ND		0.50	0.076	ug/L	1
Vanadium	7440-62-2	6020A	ND		5.0	1.5	ug/L	1
Zinc	**7440-66-6**	**6020A**	**2.7**	**J**	**10**	**1.5**	**ug/L**	**1**

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

CVAA

Client: **Buxton Environmental**
Laboratory ID: **NC14071-005**
Description: **MW-5**
Matrix: **Aqueous**
Date Sampled: **03/13/2012 1915**
Date Received: **03/14/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	03/15/2012 1556	COH	03/15/2012 0943	80257

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Mercury	7439-97-6	7470A	ND		0.00010	0.000053	mg/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **NC14071-006**
Description: **MW-6**
Matrix: **Aqueous**
Date Sampled: **03/13/2012 1620**
Date Received: **03/14/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	03/17/2012 1936	DD		80460

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	1.2	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	0.35	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	0.83	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **NC14071-006**
Description: **MW-6**
Matrix: **Aqueous**
Date Sampled: **03/13/2012 1620**
Date Received: **03/14/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	03/17/2012 1936	DD		80460

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		5.0	1.3	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		102	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
* = Reportable result (only when report all runs)
H = Out of holding time
N = Recovery is out of criteria

ICP-MS

Client: **Buxton Environmental**
Laboratory ID: **NC14071-006**
Description: **MW-6**
Matrix: **Aqueous**
Date Sampled: **03/13/2012 1620**
Date Received: **03/14/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6020A	1	03/19/2012 2038	KJC	03/15/2012 1651	80316

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Antimony	7440-36-0	6020A	ND		1.0	0.097	ug/L	1
Arsenic	7440-38-2	6020A	ND		1.0	0.26	ug/L	1
Barium	**7440-39-3**	**6020A**	**76**		**5.0**	**0.045**	**ug/L**	**1**
Beryllium	7440-41-7	6020A	ND		0.40	0.028	ug/L	1
Cadmium	**7440-43-9**	**6020A**	**0.24**		**0.10**	**0.059**	**ug/L**	**1**
Chromium	7440-47-3	6020A	ND		5.0	0.35	ug/L	1
Cobalt	**7440-48-4**	**6020A**	**2.1**	**J**	**5.0**	**0.029**	**ug/L**	**1**
Copper	**7440-50-8**	**6020A**	**0.27**	**J**	**1.0**	**0.15**	**ug/L**	**1**
Lead	7439-92-1	6020A	ND		1.0	0.047	ug/L	1
Nickel	**7440-02-0**	**6020A**	**0.41**	**J**	**5.0**	**0.28**	**ug/L**	**1**
Selenium	7782-49-2	6020A	ND		1.0	0.25	ug/L	1
Silver	**7440-22-4**	**6020A**	**0.082**	**J**	**1.0**	**0.011**	**ug/L**	**1**
Thallium	7440-28-0	6020A	ND		0.50	0.076	ug/L	1
Vanadium	7440-62-2	6020A	ND		5.0	1.5	ug/L	1
Zinc	**7440-66-6**	**6020A**	**2.7**	**J**	**10**	**1.5**	**ug/L**	**1**

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

CVAA

Client: **Buxton Environmental**
Laboratory ID: **NC14071-006**
Description: **MW-6**
Matrix: **Aqueous**
Date Sampled: **03/13/2012 1620**
Date Received: **03/14/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	03/15/2012 1559	COH	03/15/2012 0943	80257

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Mercury	7439-97-6	7470A	ND		0.00010	0.000053	mg/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **NC14071-007**
Description: **MW-7A**
Matrix: **Aqueous**
Date Sampled: **03/13/2012 1645**
Date Received: **03/14/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	03/17/2012 1959	DD		80460
2	5030B	8260B	1	03/20/2012 1218	AAC		80613

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	1.2	ug/L	1
Benzene	**71-43-2**	**8260B**	**1.1**		**1.0**	**0.13**	**ug/L**	**1**
Bromochloromethane	74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	0.35	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	0.83	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	**106-46-7**	**8260B**	**0.51**	**J**	**1.0**	**0.33**	**ug/L**	**1**
1,1-Dichloroethane	**75-34-3**	**8260B**	**5.4**		**1.0**	**0.13**	**ug/L**	**1**
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
cis-1,2-Dichloroethene	**156-59-2**	**8260B**	**18**		**1.0**	**0.12**	**ug/L**	**1**
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	**127-18-4**	**8260B**	**5.2**		**1.0**	**0.13**	**ug/L**	**1**
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	**79-01-6**	**8260B**	**6.0**		**1.0**	**0.18**	**ug/L**	**1**
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1

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ND = Not detected at or above the MDL
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Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
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Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **NC14071-007**
Description: **MW-7A**
Matrix: **Aqueous**
Date Sampled: **03/13/2012 1645**
Date Received: **03/14/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	03/17/2012 1959	DD		80460
2	5030B	8260B	1	03/20/2012 1218	AAC		80613

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	1.3	ug/L	1
Vinyl chloride	**75-01-4**	**8260B**	**2.1**		**1.0**	**0.054**	**ug/L**	**2**
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		108	70-130		101	70-130
Bromofluorobenzene		102	70-130		98	70-130
Toluene-d8		100	70-130		101	70-130

PQL = Practical quantitation limit
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B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
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P = The RPD between two GC columns exceeds 40%
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H = Out of holding time
N = Recovery is out of criteria

ICP-MS

Client: **Buxton Environmental**
Description: **MW-7A**
Date Sampled: **03/13/2012 1645**
Date Received: **03/14/2012**

Laboratory ID: **NC14071-007**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6020A	1	03/19/2012 2047	KJC	03/15/2012 1651	80316

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Antimony	7440-36-0	6020A	ND		1.0	0.097	ug/L	1
Arsenic	7440-38-2	6020A	ND		1.0	0.26	ug/L	1
Barium	**7440-39-3**	**6020A**	**59**		**5.0**	**0.045**	**ug/L**	**1**
Beryllium	7440-41-7	6020A	ND		0.40	0.028	ug/L	1
Cadmium	**7440-43-9**	**6020A**	**0.099**	**J**	**0.10**	**0.059**	**ug/L**	**1**
Chromium	7440-47-3	6020A	ND		5.0	0.35	ug/L	1
Cobalt	**7440-48-4**	**6020A**	**1.0**	**J**	**5.0**	**0.029**	**ug/L**	**1**
Copper	**7440-50-8**	**6020A**	**0.24**	**J**	**1.0**	**0.15**	**ug/L**	**1**
Lead	**7439-92-1**	**6020A**	**0.071**	**J**	**1.0**	**0.047**	**ug/L**	**1**
Nickel	7440-02-0	6020A	ND		5.0	0.28	ug/L	1
Selenium	7782-49-2	6020A	ND		1.0	0.25	ug/L	1
Silver	**7440-22-4**	**6020A**	**0.028**	**J**	**1.0**	**0.011**	**ug/L**	**1**
Thallium	7440-28-0	6020A	ND		0.50	0.076	ug/L	1
Vanadium	7440-62-2	6020A	ND		5.0	1.5	ug/L	1
Zinc	**7440-66-6**	**6020A**	**2.1**	**J**	**10**	**1.5**	**ug/L**	**1**

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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CVAA

Client: **Buxton Environmental**
Description: **MW-7A**
Date Sampled: **03/13/2012 1645**
Date Received: **03/14/2012**

Laboratory ID: **NC14071-007**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	03/15/2012 1601	COH	03/15/2012 0943	80257

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Mercury	7439-97-6	7470A	ND		0.00010	0.000053	mg/L	1

PQL = Practical quantitation limit
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Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
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H = Out of holding time
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **NC14071-008**
Description: **MW-7B**
Matrix: **Aqueous**
Date Sampled: **03/13/2012 1700**
Date Received: **03/14/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	03/17/2012 2022	DD		80460
2	5030B	8260B	1	03/20/2012 1241	AAC		80613

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	1.2	ug/L	1
Benzene	**71-43-2**	**8260B**	**4.6**		**1.0**	**0.13**	**ug/L**	**1**
Bromochloromethane	74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.33	ug/L	1
Chloroethane	**75-00-3**	**8260B**	**3.6**		**2.0**	**0.47**	**ug/L**	**2**
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	0.35	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	0.83	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	**106-46-7**	**8260B**	**2.4**		**1.0**	**0.33**	**ug/L**	**1**
1,1-Dichloroethane	**75-34-3**	**8260B**	**17**		**1.0**	**0.13**	**ug/L**	**1**
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethene	**75-35-4**	**8260B**	**0.27**	**J**	**1.0**	**0.16**	**ug/L**	**1**
cis-1,2-Dichloroethene	**156-59-2**	**8260B**	**43**		**1.0**	**0.12**	**ug/L**	**1**
trans-1,2-Dichloroethene	**156-60-5**	**8260B**	**0.25**	**J**	**1.0**	**0.21**	**ug/L**	**1**
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	**75-09-2**	**8260B**	**0.62**	**J**	**1.0**	**0.33**	**ug/L**	**1**
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	**127-18-4**	**8260B**	**5.9**		**1.0**	**0.13**	**ug/L**	**1**
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	**79-01-6**	**8260B**	**15**		**1.0**	**0.18**	**ug/L**	**1**
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
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H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **NC14071-008**
Description: **MW-7B**
Matrix: **Aqueous**
Date Sampled: **03/13/2012 1700**
Date Received: **03/14/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	03/17/2012 2022	DD		80460
2	5030B	8260B	1	03/20/2012 1241	AAC		80613

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	1.3	ug/L	1
Vinyl chloride	**75-01-4**	**8260B**	**4.1**		**1.0**	**0.054**	**ug/L**	**2**
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		104	70-130		106	70-130
Bromofluorobenzene		100	70-130		99	70-130
Toluene-d8		100	70-130		101	70-130

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ND = Not detected at or above the MDL
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E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
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ICP-MS

Client: **Buxton Environmental**
Laboratory ID: **NC14071-008**
Description: **MW-7B**
Matrix: **Aqueous**
Date Sampled: **03/13/2012 1700**
Date Received: **03/14/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6020A	1	03/19/2012 2055	KJC	03/15/2012 1651	80316

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Antimony	7440-36-0	6020A	ND		1.0	0.097	ug/L	1
Arsenic	7440-38-2	6020A	ND		1.0	0.26	ug/L	1
Barium	**7440-39-3**	**6020A**	**140**		**5.0**	**0.045**	**ug/L**	**1**
Beryllium	7440-41-7	6020A	ND		0.40	0.028	ug/L	1
Cadmium	**7440-43-9**	**6020A**	**0.19**		**0.10**	**0.059**	**ug/L**	**1**
Chromium	7440-47-3	6020A	ND		5.0	0.35	ug/L	1
Cobalt	**7440-48-4**	**6020A**	**0.25**	**J**	**5.0**	**0.029**	**ug/L**	**1**
Copper	**7440-50-8**	**6020A**	**0.58**	**J**	**1.0**	**0.15**	**ug/L**	**1**
Lead	7439-92-1	6020A	ND		1.0	0.047	ug/L	1
Nickel	**7440-02-0**	**6020A**	**0.86**	**J**	**5.0**	**0.28**	**ug/L**	**1**
Selenium	7782-49-2	6020A	ND		1.0	0.25	ug/L	1
Silver	**7440-22-4**	**6020A**	**0.065**	**J**	**1.0**	**0.011**	**ug/L**	**1**
Thallium	7440-28-0	6020A	ND		0.50	0.076	ug/L	1
Vanadium	7440-62-2	6020A	ND		5.0	1.5	ug/L	1
Zinc	**7440-66-6**	**6020A**	**2.3**	**J**	**10**	**1.5**	**ug/L**	**1**

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

CVAA

Client: **Buxton Environmental**
Laboratory ID: **NC14071-008**
Description: **MW-7B**
Matrix: **Aqueous**
Date Sampled: **03/13/2012 1700**
Date Received: **03/14/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	03/15/2012 1604	COH	03/15/2012 0943	80257

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Mercury	7439-97-6	7470A	ND		0.00010	0.000053	mg/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **NC14071-009**
Description: **MW-8A**
Matrix: **Aqueous**
Date Sampled: **03/13/2012 1715**
Date Received: **03/14/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	03/17/2012 2044	DD		80460

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	1.2	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	0.35	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	0.83	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **NC14071-009**
Description: **MW-8A**
Matrix: **Aqueous**
Date Sampled: **03/13/2012 1715**
Date Received: **03/14/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	03/17/2012 2044	DD		80460

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		5.0	1.3	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		106	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		98	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

ICP-MS

Client: **Buxton Environmental**
Laboratory ID: **NC14071-009**
Description: **MW-8A**
Matrix: **Aqueous**
Date Sampled: **03/13/2012 1715**
Date Received: **03/14/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6020A	1	03/19/2012 2103	KJC	03/15/2012 1651	80316

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Antimony	7440-36-0	6020A	ND		1.0	0.097	ug/L	1
Arsenic	7440-38-2	6020A	ND		1.0	0.26	ug/L	1
Barium	**7440-39-3**	**6020A**	**14**		**5.0**	**0.045**	**ug/L**	**1**
Beryllium	7440-41-7	6020A	ND		0.40	0.028	ug/L	1
Cadmium	**7440-43-9**	**6020A**	**0.24**		**0.10**	**0.059**	**ug/L**	**1**
Chromium	7440-47-3	6020A	ND		5.0	0.35	ug/L	1
Cobalt	7440-48-4	6020A	ND		5.0	0.029	ug/L	1
Copper	7440-50-8	6020A	ND		1.0	0.15	ug/L	1
Lead	7439-92-1	6020A	ND		1.0	0.047	ug/L	1
Nickel	7440-02-0	6020A	ND		5.0	0.28	ug/L	1
Selenium	7782-49-2	6020A	ND		1.0	0.25	ug/L	1
Silver	**7440-22-4**	**6020A**	**0.085**	**J**	**1.0**	**0.011**	**ug/L**	**1**
Thallium	7440-28-0	6020A	ND		0.50	0.076	ug/L	1
Vanadium	7440-62-2	6020A	ND		5.0	1.5	ug/L	1
Zinc	7440-66-6	6020A	ND		10	1.5	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

CVAA

Client: **Buxton Environmental**
Laboratory ID: **NC14071-009**
Description: **MW-8A**
Matrix: **Aqueous**
Date Sampled: **03/13/2012 1715**
Date Received: **03/14/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	03/15/2012 1607	COH	03/15/2012 0943	80257

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Mercury	7439-97-6	7470A	ND		0.00010	0.000053	mg/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **NC14071-010**
Description: **MW-9**
Matrix: **Aqueous**
Date Sampled: **03/13/2012 1545**
Date Received: **03/14/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	03/17/2012 2107	DD		80460

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	1.2	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	0.35	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	0.83	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **NC14071-010**
Description: **MW-9**
Matrix: **Aqueous**
Date Sampled: **03/13/2012 1545**
Date Received: **03/14/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	03/17/2012 2107	DD		80460

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		5.0	1.3	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		109	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		101	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

ICP-MS

Client: **Buxton Environmental**
Laboratory ID: **NC14071-010**
Description: **MW-9**
Matrix: **Aqueous**
Date Sampled: **03/13/2012 1545**
Date Received: **03/14/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6020A	1	03/19/2012 2127	KJC	03/15/2012 1651	80316

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Antimony	7440-36-0	6020A	ND		1.0	0.097	ug/L	1
Arsenic	7440-38-2	6020A	ND		1.0	0.26	ug/L	1
Barium	**7440-39-3**	**6020A**	**50**		**5.0**	**0.045**	**ug/L**	**1**
Beryllium	7440-41-7	6020A	ND		0.40	0.028	ug/L	1
Cadmium	**7440-43-9**	**6020A**	**0.37**		**0.10**	**0.059**	**ug/L**	**1**
Chromium	7440-47-3	6020A	ND		5.0	0.35	ug/L	1
Cobalt	**7440-48-4**	**6020A**	**1.9**	**J**	**5.0**	**0.029**	**ug/L**	**1**
Copper	**7440-50-8**	**6020A**	**0.59**	**J**	**1.0**	**0.15**	**ug/L**	**1**
Lead	**7439-92-1**	**6020A**	**0.13**	**J**	**1.0**	**0.047**	**ug/L**	**1**
Nickel	**7440-02-0**	**6020A**	**0.59**	**J**	**5.0**	**0.28**	**ug/L**	**1**
Selenium	7782-49-2	6020A	ND		1.0	0.25	ug/L	1
Silver	**7440-22-4**	**6020A**	**0.14**	**J**	**1.0**	**0.011**	**ug/L**	**1**
Thallium	**7440-28-0**	**6020A**	**0.11**	**J**	**0.50**	**0.076**	**ug/L**	**1**
Vanadium	7440-62-2	6020A	ND		5.0	1.5	ug/L	1
Zinc	**7440-66-6**	**6020A**	**2.9**	**J**	**10**	**1.5**	**ug/L**	**1**

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

CVAA

Client: **Buxton Environmental**
Description: **MW-9**
Date Sampled: **03/13/2012 1545**
Date Received: **03/14/2012**

Laboratory ID: **NC14071-010**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	03/15/2012 1609	COH	03/15/2012 0943	80257

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Mercury	7439-97-6	7470A	ND		0.00010	0.000053	mg/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **NC14071-011**
Description: **SW-1**
Matrix: **Aqueous**
Date Sampled: **03/13/2012 1630**
Date Received: **03/14/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	03/17/2012 2130	DD		80460

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	1.2	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	0.35	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	0.83	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **NC14071-011**
Description: **SW-1**
Matrix: **Aqueous**
Date Sampled: **03/13/2012 1630**
Date Received: **03/14/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	03/17/2012 2130	DD		80460

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		5.0	1.3	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	70-130
Bromofluorobenzene		99	70-130
Toluene-d8		98	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

ICP-MS

Client: **Buxton Environmental**
Laboratory ID: **NC14071-011**
Description: **SW-1**
Matrix: **Aqueous**
Date Sampled: **03/13/2012 1630**
Date Received: **03/14/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6020A	1	03/19/2012 2135	KJC	03/15/2012 1651	80316

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Antimony	7440-36-0	6020A	ND		1.0	0.097	ug/L	1
Arsenic	7440-38-2	6020A	ND		1.0	0.26	ug/L	1
Barium	**7440-39-3**	**6020A**	**25**		**5.0**	**0.045**	**ug/L**	**1**
Beryllium	7440-41-7	6020A	ND		0.40	0.028	ug/L	1
Cadmium	**7440-43-9**	**6020A**	**0.42**		**0.10**	**0.059**	**ug/L**	**1**
Chromium	7440-47-3	6020A	ND		5.0	0.35	ug/L	1
Cobalt	**7440-48-4**	**6020A**	**0.20**	**J**	**5.0**	**0.029**	**ug/L**	**1**
Copper	**7440-50-8**	**6020A**	**1.2**		**1.0**	**0.15**	**ug/L**	**1**
Lead	**7439-92-1**	**6020A**	**0.19**	**J**	**1.0**	**0.047**	**ug/L**	**1**
Nickel	7440-02-0	6020A	ND		5.0	0.28	ug/L	1
Selenium	7782-49-2	6020A	ND		1.0	0.25	ug/L	1
Silver	**7440-22-4**	**6020A**	**0.16**	**J**	**1.0**	**0.011**	**ug/L**	**1**
Thallium	7440-28-0	6020A	ND		0.50	0.076	ug/L	1
Vanadium	7440-62-2	6020A	ND		5.0	1.5	ug/L	1
Zinc	**7440-66-6**	**6020A**	**3.7**	**J**	**10**	**1.5**	**ug/L**	**1**

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

CVAA

Client: **Buxton Environmental**
Description: **SW-1**
Date Sampled: **03/13/2012 1630**
Date Received: **03/14/2012**

Laboratory ID: **NC14071-011**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	03/15/2012 1611	COH	03/15/2012 0943	80257

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Mercury	7439-97-6	7470A	ND		0.00010	0.000053	mg/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
* = Reportable result (only when report all runs)
H = Out of holding time
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **NC14071-012**
Description: **SW-2**
Matrix: **Aqueous**
Date Sampled: **03/13/2012 1830**
Date Received: **03/14/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	03/17/2012 2153	DD		80460

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	1.2	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	0.35	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	0.83	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
cis-1,2-Dichloroethene	**156-59-2**	**8260B**	**0.41**	**J**	**1.0**	**0.12**	**ug/L**	**1**
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **NC14071-012**
Description: **SW-2**
Matrix: **Aqueous**
Date Sampled: **03/13/2012 1830**
Date Received: **03/14/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	03/17/2012 2153	DD		80460

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		5.0	1.3	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		105	70-130
Bromofluorobenzene		99	70-130
Toluene-d8		100	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

ICP-MS

Client: **Buxton Environmental**
Laboratory ID: **NC14071-012**
Description: **SW-2**
Matrix: **Aqueous**
Date Sampled: **03/13/2012 1830**
Date Received: **03/14/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6020A	1	03/19/2012 2143	KJC	03/15/2012 1651	80316

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Antimony	7440-36-0	6020A	ND		1.0	0.097	ug/L	1
Arsenic	7440-38-2	6020A	ND		1.0	0.26	ug/L	1
Barium	**7440-39-3**	**6020A**	**29**		**5.0**	**0.045**	**ug/L**	**1**
Beryllium	7440-41-7	6020A	ND		0.40	0.028	ug/L	1
Cadmium	7440-43-9	6020A	ND		0.10	0.059	ug/L	1
Chromium	7440-47-3	6020A	ND		5.0	0.35	ug/L	1
Cobalt	**7440-48-4**	**6020A**	**0.33**	**J**	**5.0**	**0.029**	**ug/L**	**1**
Copper	**7440-50-8**	**6020A**	**0.96**	**J**	**1.0**	**0.15**	**ug/L**	**1**
Lead	**7439-92-1**	**6020A**	**0.18**	**J**	**1.0**	**0.047**	**ug/L**	**1**
Nickel	7440-02-0	6020A	ND		5.0	0.28	ug/L	1
Selenium	7782-49-2	6020A	ND		1.0	0.25	ug/L	1
Silver	7440-22-4	6020A	ND		1.0	0.011	ug/L	1
Thallium	7440-28-0	6020A	ND		0.50	0.076	ug/L	1
Vanadium	7440-62-2	6020A	ND		5.0	1.5	ug/L	1
Zinc	**7440-66-6**	**6020A**	**1.5**	**J**	**10**	**1.5**	**ug/L**	**1**

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

CVAA

Client: **Buxton Environmental**
Laboratory ID: **NC14071-012**
Description: **SW-2**
Matrix: **Aqueous**
Date Sampled: **03/13/2012 1830**
Date Received: **03/14/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	03/15/2012 1614	COH	03/15/2012 0943	80257

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Mercury	7439-97-6	7470A	ND		0.00010	0.000053	mg/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **NC14071-013**
Description: **Trip Blank**
Matrix: **Aqueous**
Date Sampled: **03/13/2012**
Date Received: **03/14/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	03/17/2012 1436	DD		80460

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	1.2	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	0.35	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	0.83	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Description: **Trip Blank**
Date Sampled: **03/13/2012**
Date Received: **03/14/2012**

Laboratory ID: **NC14071-013**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	03/17/2012 1436	DD		80460

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		5.0	1.3	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		98	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
* = Reportable result (only when report all runs)
H = Out of holding time
N = Recovery is out of criteria

SHEALY

Chain of Custody Record

Shealy Environmental Services, Inc.
106 Vantage Point Drive
West Columbia, South Carolina 29172
Telephone No. (803) 791-9700 Fax No. (803) 791-9111
www.shealylab.com

Number 09179

Client: Buxton Environmental, Inc	Report to Contact: Ross Kingman	Sampler (Printed Name)	Quote No.
Address: 1101 South Blvd Ste 101	Telephone No. / Fax No. / Email: 704-344-1450	Waybill No.	Page 1 of 1
City: Charlotte; State: NC; Zip Code: 28203	Preservative: 1. Unpres. 2. NaOH/ZnA 3. H2SO4 4. HNO3 5. HCL 6. Na Thio. 7. NaOH		Number of Containers
Project Name: Alamance Co - Swepsonville Landfill			Bottle (See Instructions on back)
Project Number	P.O Number		Preservative
			Lot No.

Sample ID / Description (Containers for each sample may be combined on one line)	Date	Time	G=Grab C=Composite	Matrix GW	DW	WW	S	Other	Analysis	Appl VOC's	Appl metals (+Hg)										Remarks / Cooler ID
MW-1	3-13-12	15:30	G	—						X	X										
MW-2	"	17:30	G	—						X	X										
MW-3	"	18:15	G	—						X	X										
MW-4	"	19:00	G	—						X	X										
MW-5	"	19:15	G	—						X	X										
MW-6	"	16:20	G	—						X	X										
MW-7A	"	16:45	G	—						X	X										
MW-7B	"	17:00	G	—						X	X										
MW-8A	"	17:15	G	—						X	X										
MW-9	"	15:45	G	—						X	X										
SW-1	"	16:30	G	—						X	X										
SW-2	"	18:30	G	—						X	X										
Trip Blank	—	—	G	—						X											

Turn Around Time Required (Prior lab approval required for expedited TAT)	Sample Disposal	QC Requirements (Specify)	Possible Hazard Identification
☐ Standard ☐ Rush (Please Specify) 7 DAY TAT	☐ Return to Client ☐ Disposal by Lab	Analyze [illegible]	☐Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison ☐Unknown

	Date	Time		Date	Time
1. Relinquished by / Sampler	3-14-12	10:30	1. Received by [illegible]	3-14-12	1:45
2. Relinquished by			2. Received by		
3. Relinquished by			3. Received by		
4. Relinquished by			4. Laboratory Received by		

Note: All samples are retained for six weeks from receipt unless other arrangements are made.

LAB USE ONLY
Received on Ice (Check) ☐ Yes ☐ No ☐ Ice Pack
Receipt Temp. _____ °C
Temp. Blank ☐ Y / ☐ N

SHEALY ENVIRONMENTAL SERVICES, INC.

Sample Receipt Checklist (SRC)

Client: Buxton Cooler Inspected by/date: LWL 03/19/12 Lot #: NC14071

Means of receipt: ☑ SESI ☐ Client ☐ UPS ☐ FedEx ☐ Airborne Exp ☐ Other			
Yes ☐	No ☑		1. Were custody seals present on the cooler?
Yes ☐	No ☑		2. If custody seals were present, were they intact and unbroken?
Cooler ID/temperature upon receipt 1.0 °C / °C / °C / °C Method: ☐ Temperature Blank ☑ Against Bottles Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None			
If response is No (or Yes for 14, 15, 16), an explanation/resolution must be provided.			
Yes ☐	No ☐	NA ☑	3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note (circle one), other:_____. (For coolers received via commercial courier, PMs are to be notified immediately.
Yes ☐	No ☐	NA ☑	4. Is the commercial courier's packing slip attached to this form?
Yes ☑	No ☐		5. Were proper custody procedures (relinquished/received) followed?
Yes ☐	No ☐	NA ☑	5a Were samples relinquished by client to commercial courier?
Yes ☑	No ☐		6. Were sample IDs listed?
Yes ☑	No ☐		7. Was collection date & time listed?
Yes ☑	No ☐		8. Were tests to be performed listed on the COC?
Yes ☑	No ☐		9. Did all samples arrive in the proper containers for each test?
Yes ☑	No ☐		10. Did all container label information (ID, date, time) agree with COC?
Yes ☑	No ☐		11. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐		12. Was adequate sample volume available?
Yes ☑	No ☐		13. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑		14. Were any samples containers missing?
Yes ☐	No ☑		15. Were there any excess samples not listed on COC?
Yes ☐	No ☑	NA ☐	16. Were bubbles present >"pea-size" (¼"or 6mm in diameter) in any VOA vials?
Yes ☑	No ☐	NA ☐	17. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☑	18. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☑	19. Were all applicable NH3/TKN/cyanide/phenol/BNA/pest/PCB/herb (<0.2mg/L) samples free of residual chlorine?
Yes ☐	No ☑	NA ☐	20. Were collection temperatures documented on the COC for NC samples?
Yes ☐	No ☐	NA ☑	21. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s)_____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H_2SO_4,HNO_3,HCl,NaOH) with the SR # (number)

Sample(s)_____ were received with bubbles >6 mm in diameter.

Sample(s)_____ were received with TRC >0.2 mg/L for NH3/TKN/cyanide/BNA/pest/PCB/herb.

Corrective Action taken, if necessary:

Was client notified: Yes ☐ No ☐ Did client respond: Yes ☐ No ☐

SESI employee. _____ Date of response: _____

Comments: