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.

Received FEB 2013 Waste Management

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)
Gaston County - Closed Biggerstaff Landfill	Abel Road Gaston County, NC		.0500	December 8, 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) _____

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 704-344-1450

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

February 21, 2013 Affix NC Licensed/ Professional Geologist Seal

Signature Date

NORTH CAROLINA LICENSED SEAL 1266 GEOLOGIST CHARLES ROSS KLINGMAN

Buxton Environmental, Inc.; 1101 South Blvd., Suite 101; Charlotte, NC 28203

Facility Representative Address

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

Revised 6/2009

SECOND SEMI-ANNUAL 2012
GROUNDWATER AND SURFACE WATER MONITORING EVENT
GASTON COUNTY - CLOSED BIGGERSTAFF LANDFILL
GASTON COUNTY, NORTH CAROLINA

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SECOND SEMI-ANNUAL 2012
GROUNDWATER AND SURFACE WATER MONITORING EVENT
GASTON COUNTY - CLOSED BIGGERSTAFF LANDFILL
GASTON COUNTY, NORTH CAROLINA

1.0 INTRODUCTION

Buxton Environmental, Inc. respectfully submits the methods and results of the second semi-annual 2012 groundwater and surface water monitoring activities conducted at the Gaston County Closed Biggerstaff Landfill located in Gaston County, North Carolina. The purpose for conducting the assessment was to monitor groundwater, surface water and hydrogeologic conditions at the subject site. A site location map and site layout map are provided in Figures 1 and 2, respectively.

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, 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 guidelines dated April 2008 for groundwater and surface water sampling. In addition, the North Carolina Ground Water Protection Standards (NCGPS's) 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

Based on review of aerial photographs and discussions with Gaston County personnel, the subject facility was opened prior to 1968 and remained in operation until it closed in approximately 1986. The subject property consists of approximately 60 acres and currently contains a landing strip used by a local model airplane club.

To comply with NCDWM guidelines, semi-annual groundwater monitoring was initiated in April 1997 at five shallow monitor wells MW-1 through MW-5. The groundwater samples have been analyzed for Appendix I volatile organic compounds (VOC's) and RCRA metals. Groundwater samples collected during these activities indicated several VOC's and metals above NCGPS's.

Due to the presence of target constituents above the NCGPS's, the NCDWM requested that additional assessment be conducted to determine the extent of affected groundwater and the existence of surrounding water supply wells. According to a March 22, 2001 *Site Assessment Activities for Biggerstaff Closed Landfill* report prepared by Resolve Environmental Services, P.A., two deep monitor wells MW-2D and MW-4D were installed adjacent to monitor wells MW-2 and MW-4, respectively. Groundwater samples collected at MW-2D indicated the presence of 61 micrograms per liter (ug/l) cadmium and 150 ug/l lead, and MW-4D indicated the presence of 9 ug/l cadmium and 22 ug/l lead, which were above the NCGPS's. During the assessment, a total of 15 water supply wells were identified within a 0.5 mile radius of the former landfill. According to the report, these water supply wells were either located upgradient or across shallow groundwater divides.

3.0 GROUNDWATER AND SURFACE WATER MONITORING ACTIVITIES

On December 8, 2012, Buxton Environmental, Inc. conducted the second semi-annual 2012 groundwater and surface water monitoring event at the subject site. Groundwater monitoring activities were conducted at five shallow monitor wells MW-1, MW-2, MW-3, MW-4 and MW-5, and two deep monitor wells MW-2D and MW-4D. Two surface water samples Upstream and Downstream were collected along the tributary creek located downgradient and to the south of the landfill area.

Prior to conducting the sampling activities, groundwater levels were obtained from each 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. Purge water was poured on the ground surface at respective well heads. Field parameters including pH, conductivity and temperature were collected following purging at each well and at each surface water sample location by Buxton Environmental, Inc. utilizing calibrated EXTECH Instruments ExStik meters. 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, and 8 RCRA metals by EPA Methods 6010C and 7470A. Insufficient water was available for monitor well MW-5 to conduct analytical testing. 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.

The monitor wells were locked and appeared to be in good condition during the sampling event.

4.0 GROUNDWATER FLOW DIRECTION

Based on groundwater levels obtained on December 8, 2012, shallow groundwater flows southeast towards tributary creeks located on the eastern and southern sides of the property. A shallow groundwater flow direction map is provided in Figure 3.

A horizontal hydraulic gradient of 0.03 feet per feet (ft/ft) was observed between shallow monitor wells MW-1 and MW-3. An upward vertical hydraulic gradient of 0.08 ft/ft was observed at nested monitor wells MW-2 and MW-2D. A downward vertical hydraulic gradient of 0.002 ft/ft was observed at nested monitor wells MW-4 and MW-4D. Upward vertical hydraulic gradients are generally associated with groundwater discharge zones and downward vertical hydraulic gradients were generally associated with groundwater recharge zones.

5.0 GROUNDWATER AND SURFACE WATER ANALYTICAL RESULTS

The groundwater and surface water analytical results for the second semi-annual 2012 event are presented in Tables 3 and 4, respectively, and are illustrated in Figure 4. Laboratory data sheets are presented in Appendix A. Historical groundwater analytical results are presented in Appendix B.

Groundwater samples collected at monitor wells MW-2, MW-4 and MW-4D indicated the presence of target constituents above the NCGPS's, which are summarized below. Groundwater sample MW-2 indicated the presence of 2.6 ug/l benzene, 90 ug/l cis-1,2-dichloroethene, 9.2 ug/l methylene chloride, 1.4 ug/l tetrachloroethene and 5.7 ug/l vinyl chloride. Groundwater sample MW-4 indicated the presence of 4.1 ug/l benzene, 12 ug/l 1,4-dichlorobenzene, 3.1 ug/l vinyl chloride, 39 ug/l arsenic, 2.1 ug/l cadmium and 23 ug/l silver. Groundwater sample MW-4D indicated the presence of 11 ug/l 1,4-dichlorobenzene, 6 ug/l vinyl chloride and 20 ug/l cadmium. The remaining groundwater samples did not indicate target constituents above the NCGPS's.

Surface water samples Upstream and Downstream did not indicated the presence of quantifiable target constituents above established North Carolina Surface Water and Wetland Standards (15A NCAC 02B) for Long Creek (Class WS-II water) or EPA National Criteria standards (utilized by North Carolina Division of Water Quality as default standards for non listed parameters) (NCSWWS's).

The trip blank did not indicate the presence of VOC's above method detection limits.

6.0 CONCLUSIONS

On December 8, 2012, Buxton Environmental, Inc. conducted the second semi-annual 2012 groundwater and surface water monitoring activities at the Closed Biggerstaff Landfill located in Gaston County, North Carolina. A summary of the findings of this investigation is provided below.

- Shallow groundwater flow at the site is to the southeast.
- Groundwater samples collected at MW-2, MW-4 and MW-4D indicated target constituents above the NCGPS's
- Surface water samples Upstream and Downstream did not indicate target constituents above established NCSWWS's.

7.0 RECOMMENDATIONS

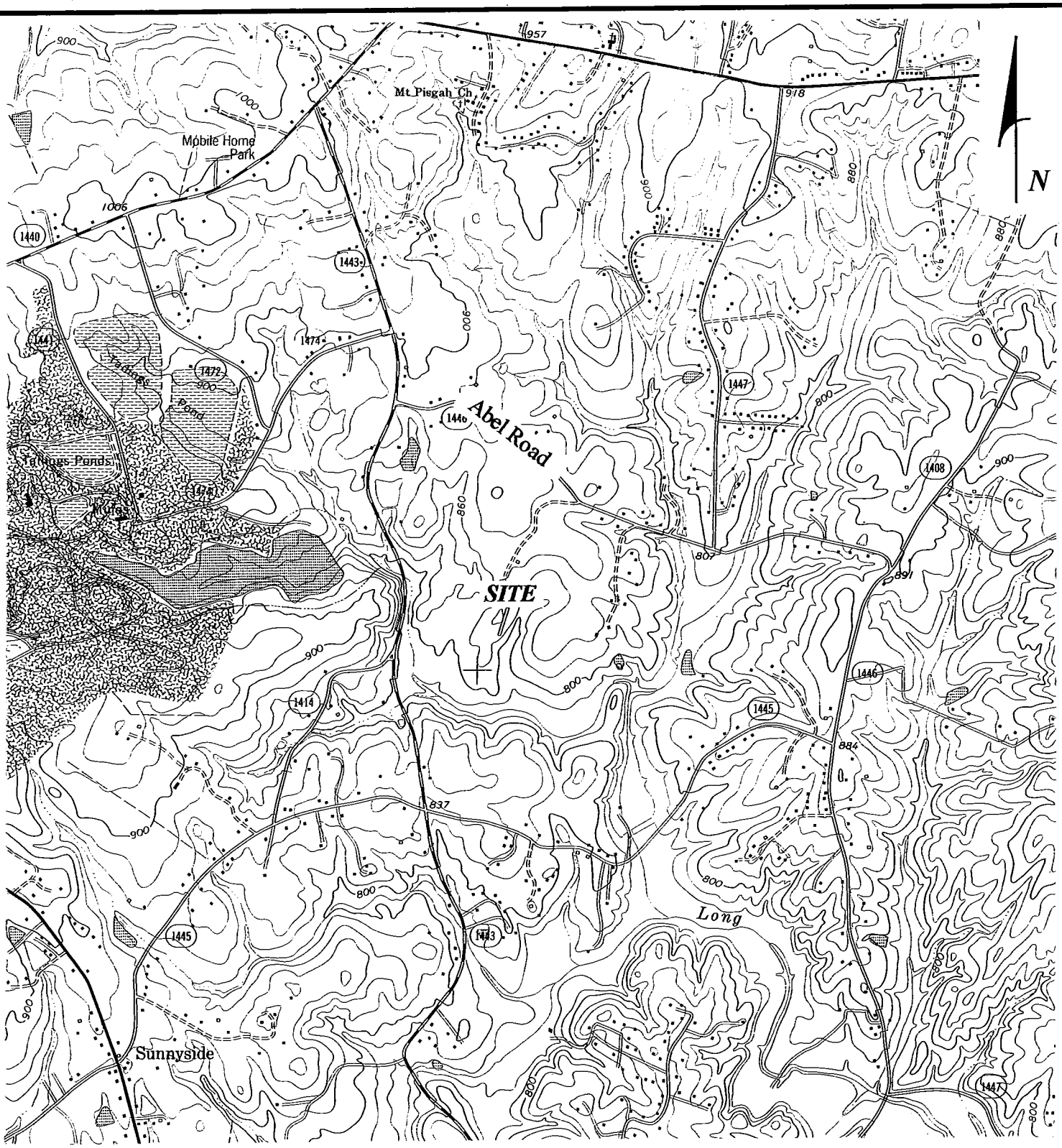
Based on the findings of this assessment, Buxton Environmental, Inc. makes the following recommendations.

- Semi-annual groundwater and surface water monitoring should continue to be conducted at the Closed Biggerstaff Landfill. The next sampling event is anticipated to be conducted in May 2013.

- A copy of this report should be forwarded to the NCDWM for their review.

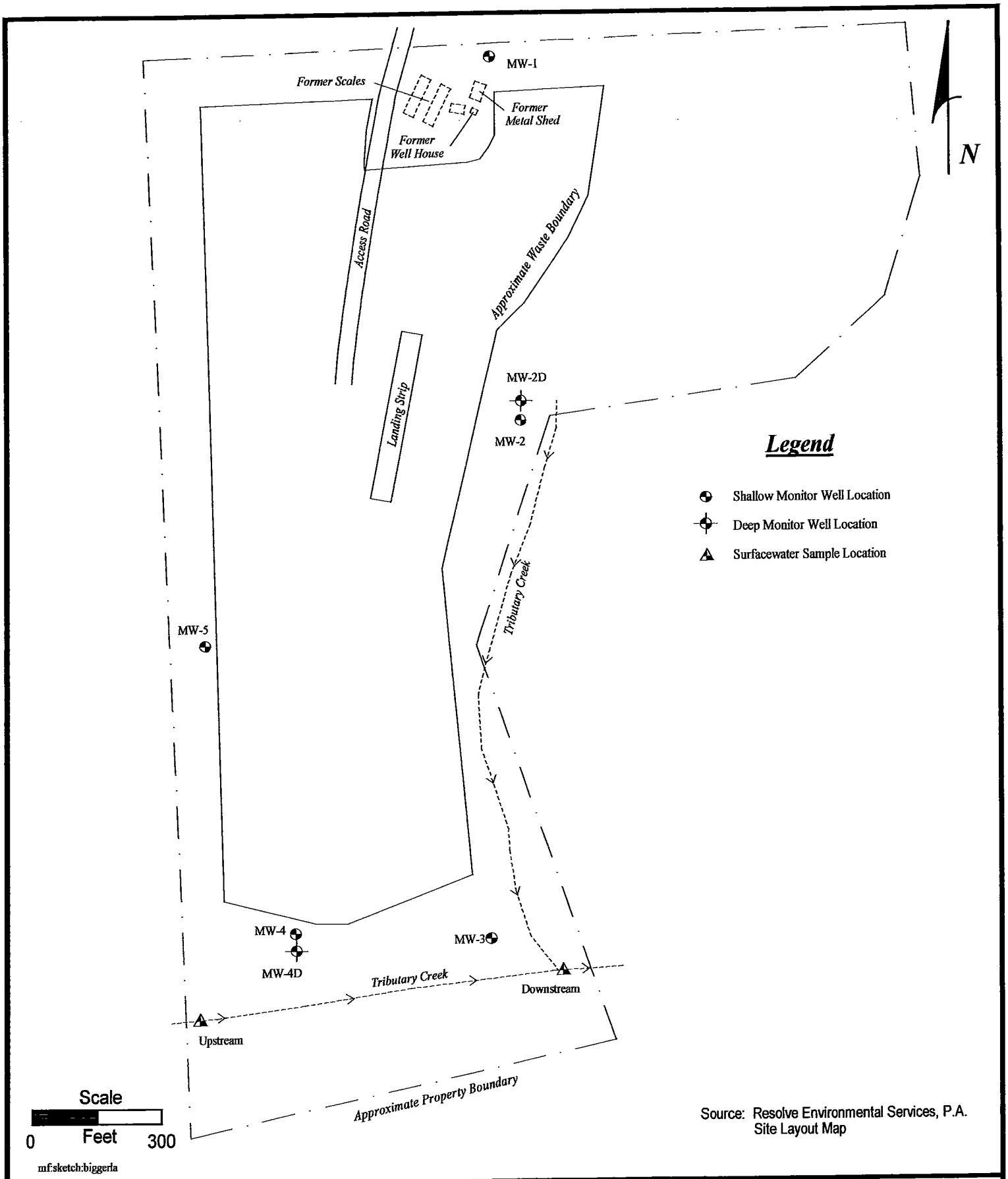
rk:reports:biggerstaffrpt..1212

FIGURES



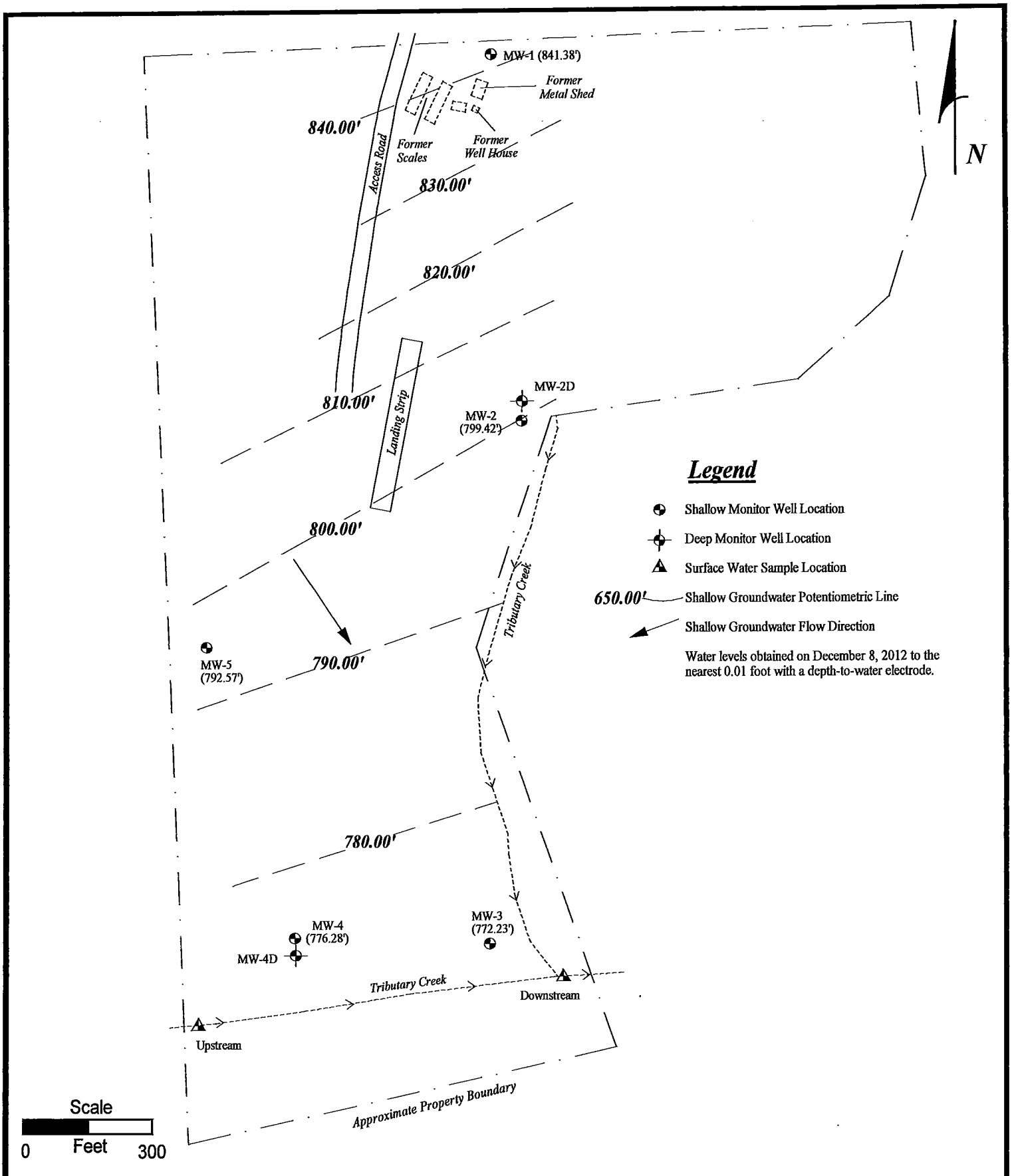
Source: United States Geological Survey, 1993 Bessemer City, North Carolina Quadrangle

Gaston County Closed Biggerstaff Landfill Gaston County, North Carolina	Buxton Environmental, Inc.	Figure 1. Site Location Map

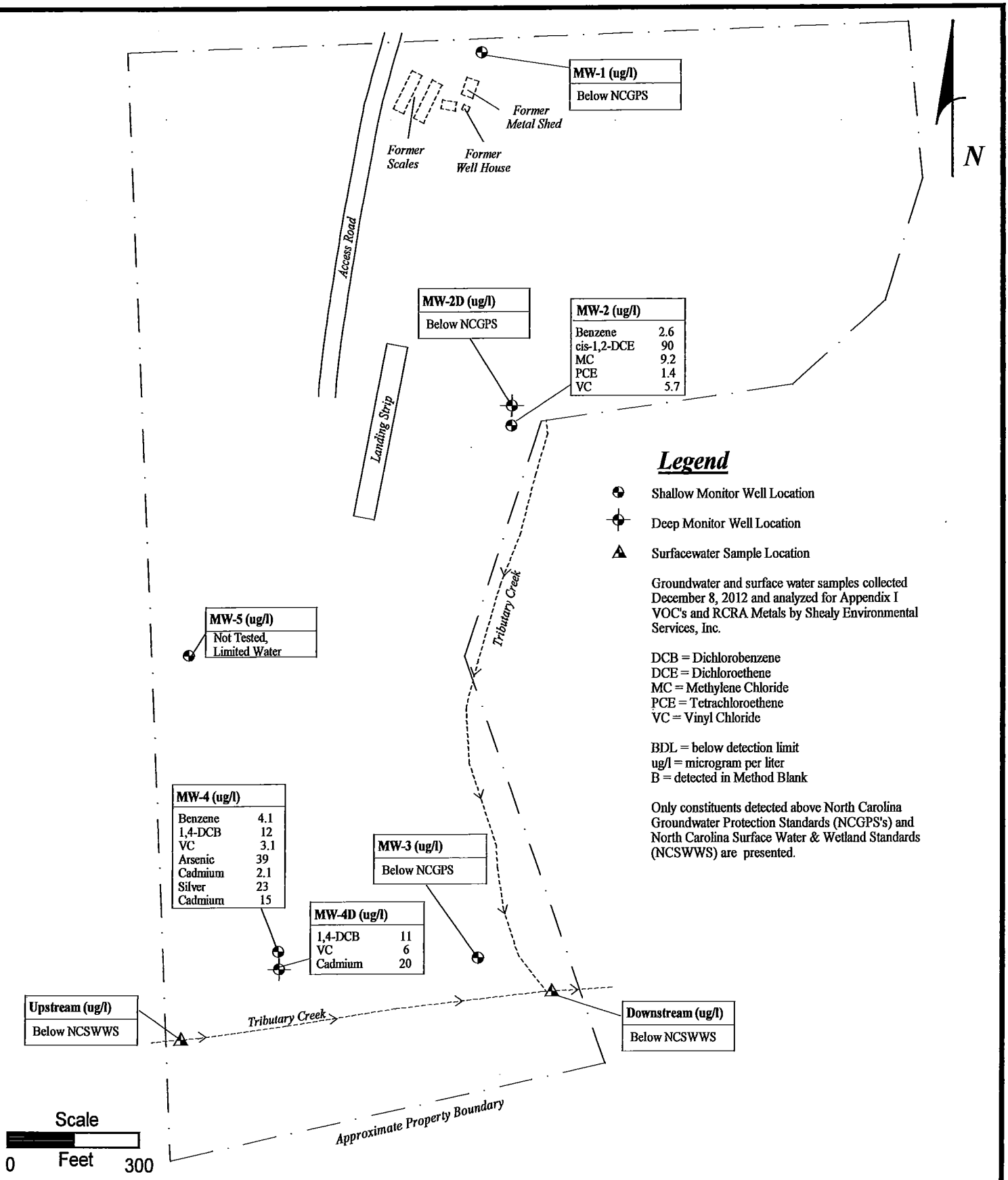


Source: Resolve Environmental Services, P.A. Site Layout Map

Gaston County Closed Biggerstaff Landfill Gaston County, North Carolina	Buxton Environmental, Inc.	Figure 2. Site Layout Map



Gaston County Closed Biggerstaff Landfill Gaston County, North Carolina	Buxton Environmental, Inc.	Figure 3. Shallow Groundwater Flow Second Semi-Annual 2012



Gaston County Closed Biggerstaff Landfill Gaston County, North Carolina	Buxton Environmental, Inc.	Figure 4. Groundwater Analytical Results Second Semi-Annual 2012

TABLES

TABLE 1
GROUNDWATER GAUGING DATA
GASTON COUNTY - CLOSED BIGGERSTAFF LANDFILL
GASTON COUNTY, NORTH CAROLINA
DECEMBER 8, 2012

Well ID	*TD BTOC (ft)*	*TOC Elevation (ft)*	*DTW BTOC (ft)*	*DTW Elevation (ft)*
MW-1	33.20	872.88	31.50	841.38
MW-2	18.00	811.01	11.59	799.42
MW-2D	45.00	812.48	11.00	801.48
MW-3	18.10	781.76	9.53	772.23
MW-4	18.50	786.22	9.94	776.28
MW-4D	45.00	784.55	8.33	776.22
MW-5	33.20	825.72	33.15	792.57

Notes:
Depth-to-water measurements collected on December 8, 2012 with a depth-to-water electrode.
TD=total depth;BTOC=below top of casing;TOC=top of casing;DTW=depth to water;ft=feet
TOC elevations at MW-1, MW-2, MW-3, MW-4 and MW-5 are relative to mean sea level and were surveyed by Robinson & Sawyer, Inc. on August 5, 1993.

TABLE 2
FIELD PARAMETER DATA
GASTON COUNTY - CLOSED BIGGERSTAFF LANDFILL
GASTON COUNTY, NORTH CAROLINA
DECEMBER 8, 2012

Well ID	*Field Parameters*		
	pH (standard units)	*K (uS)*	*T (fahrenheit)*
MW-1	6.00	75	58.6
MW-2	5.05	50	57.4
MW-2D	4.26	174	59.6
MW-3	5.80	100	57.9
MW-4	5.75	120	58.0
MW-4D	6.24	852	58.9
MW-5	5.74	158	60.1
Upstream	6.88	136	58.2
Downstream	6.51	140	59.4

Notes:
Field parameters collected on December 8, 2012 with calibrated EXTECH Instruments ExStik meter
uS = microsiemens
K = conductivity; T = temperature

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
GASTON COUNTY - CLOSED BIGGERSTAFF LANDFILL
GASTON COUNTY, NORTH CAROLINA
DECEMBER 8, 2012

Sample ID	*MW-1*	*MW-2*	*MW-2D*	*MW-3*	*MW-4*	*MW-4D*	*MW-5*	*NCGPS*
Appendix I VOC's								
Benzene	0.81J	**2.6**	BDL	BDL	**4.1**	0.29J	NT	1
Carbon Disulfide	0.13J	BDL	BDL	BDL	BDL	BDL	NT	700
Chlorobenzene	0.42J	BDL	BDL	BDL	8.6	10	NT	50
1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	1.2	1.7	NT	20
1,4-Dichlorobenzene	3	4.1	BDL	BDL	**12**	**11**	NT	6
1,1-Dichloroethane	0.78J	3.2	BDL	BDL	4.3	2.6	NT	6
cis-1,2-Dichloroethene	3.8	**90**	BDL	BDL	3.1	14	NT	70
1,2-Dichloropropane	BDL	BDL	BDL	BDL	0.82J	0.83J	NT	0.6
Methylene Chloride	2	**9.2**	BDL	BDL	BDL	BDL	NT	5
Tetrachloroethene	BDL	**1.4**	BDL	BDL	BDL	BDL	NT	0.7
Toluene	BDL	BDL	BDL	BDL	0.43J	BDL	NT	600
Trichloroethene	0.64J	2.5	0.21J	BDL	0.6J	1.2	NT	3
Vinyl Chloride	0.27J	**5.7**	BDL	BDL	**3.1**	**6**	NT	0.03
Xylenes	13	11	BDL	BDL	BDL	BDL	NT	500
RCRA Metals								
Arsenic	BDL	BDL	BDL	BDL	**39**	BDL	NT	10
Barium	31	130	16J	73	29	140	NT	700
Cadmium	BDL	BDL	0.73J	BDL	**2.1**	**20**	NT	2
Chromium	6.1	BDL	BDL	BDL	BDL	2.5J	NT	10
Lead	BDL	1.9J	BDL	BDL	BDL	3.5J	NT	15
Mercury	0.28	BDL	BDL	BDL	BDL	BDL	NT	1
Selenium	8.7J	BDL	BDL	3.1J	BDL	BDL	NT	20
Silver	BDL	BDL	BDL	BDL	**23**	2.3J	NT	20

Notes:
Groundwater samples were collected on December 8, 2012 and analyzed for above constituents by Shealy Environmental Services, Inc. in W. Columbia, SC.
BDL = below detection limit
NCGPS = North Carolina Groundwater Protection Standard
VOC's = volatile organic compounds
Bold and shade denotes above NCGPS
data presented in micrograms per liter (ug/l)
J = estimated result <PQL and >=MDL (According to NCAC Title 15A Subchapter 2L North Carolina Groundwater Quality Standards (primary standard used to establish NCGPS's) dated January 1, 2010, J-flagged groundwater data exceeding the standard does not constitute an exceedance).
NT = not tested, limited water in well
B = detected in method blank

TABLE 4
SURFACE WATER ANALYTICAL RESULTS
GASTON COUNTY - CLOSED BIGGERSTAFF LANDFILL
GASTON COUNTY, NORTH CAROLINA
DECEMBER 8, 2012

Sample ID	***Upstream***	***Downstream***	***NCSWWS***
Appendix I VOC's			
cis-1,2-Dichloroethene	BDL	0.18J	330
Trichloroethene	0.55J	0.23J	2.5
RCRA Metals			
Barium	11J	11J	1,000
Selenium	4.3J	BDL	5

Notes:
Surface water samples collected December 8, 2012 and analyzed for above constituents by Shealy Environmental Services, Inc. in W. Columbia, SC.
BDL = below detection limit
NCSWWS = North Carolina Surface Water and Wetland Standards (15A NCAC 02B) for Long Creek (Class WS-II Water) or are EPA National Criteria.
VOC's = volatile organic compounds
bold and shade denotes above established NCSWWS (J-flagged data not considered since estimated)
data presented in micrograms per liter (ug/l)
B = detected in method blank
J = estimated result <PQL and >=MDL
NS = no standard

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: **Biggerstaff Landfill**

Lot Number: **NL10035**
Date Completed: **12/19/2012**

N. Saikaly

Nisreen Saikaly
Project Manager

ACCREDITED IN ACCORDANCE WITH nelac

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: NL10035

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.

VOA

The lab received only one vial for sample MW-5, this vial was inadvertently consumed in screening. Results are not reported for this sample.

The LCS/LCSD recovery for Vinyl acetate exceeded method control limits in batch 99595; however, all other QA/QC criteria for the LCS/LCSD were within acceptance criteria and method control limits. The associated sample results were non-detect, therefore the results were reported and no corrective action was required

Sample Summary
Buxton Environmental
Lot Number: NL10035

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	MW-1	Aqueous	12/08/2012 1230	12/10/2012
002	MW-2	Aqueous	12/08/2012 1300	12/10/2012
003	MW-2D	Aqueous	12/08/2012 1330	12/10/2012
004	MW-3	Aqueous	12/08/2012 1545	12/10/2012
005	MW-4	Aqueous	12/08/2012 1500	12/10/2012
006	MW-4D	Aqueous	12/08/2012 1515	12/10/2012
007	MW-5	Aqueous	12/08/2012 1400	12/10/2012
008	Upstream	Aqueous	12/08/2012 1430	12/10/2012
009	Downstream	Aqueous	12/08/2012 1600	12/10/2012
010	Trip Blank	Aqueous	12/08/2012	12/10/2012

(10 samples)

Executive Summary
Buxton Environmental
Lot Number: NL10035

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	MW-1	Aqueous	Benzene	8260B	0.81	J	ug/L	6
001	MW-1	Aqueous	Carbon disulfide	8260B	0.13	J	ug/L	6
001	MW-1	Aqueous	Chlorobenzene	8260B	0.42	J	ug/L	6
001	MW-1	Aqueous	1,4-Dichlorobenzene	8260B	3.0		ug/L	6
001	MW-1	Aqueous	1,1-Dichloroethane	8260B	0.78	J	ug/L	6
001	MW-1	Aqueous	cis-1,2-Dichloroethene	8260B	3.8		ug/L	6
001	MW-1	Aqueous	Methylene chloride	8260B	2.0		ug/L	6
001	MW-1	Aqueous	Trichloroethene	8260B	0.64	J	ug/L	6
001	MW-1	Aqueous	Vinyl chloride	8260B	0.27	J	ug/L	7
001	MW-1	Aqueous	Xylenes (total)	8260B	13		ug/L	7
001	MW-1	Aqueous	Barium	6010C	0.031		mg/L	8
001	MW-1	Aqueous	Chromium	6010C	0.0061		mg/L	8
001	MW-1	Aqueous	Mercury	7470A	0.00028		mg/L	8
001	MW-1	Aqueous	Selenium	6010C	0.0087	J	mg/L	8
002	MW-2	Aqueous	Benzene	8260B	2.6		ug/L	9
002	MW-2	Aqueous	1,4-Dichlorobenzene	8260B	4.1		ug/L	9
002	MW-2	Aqueous	1,1-Dichloroethane	8260B	3.2		ug/L	9
002	MW-2	Aqueous	cis-1,2-Dichloroethene	8260B	90		ug/L	9
002	MW-2	Aqueous	Methylene chloride	8260B	9.2		ug/L	9
002	MW-2	Aqueous	Tetrachloroethene	8260B	1.4		ug/L	9
002	MW-2	Aqueous	Trichloroethene	8260B	2.5		ug/L	9
002	MW-2	Aqueous	Vinyl chloride	8260B	5.7		ug/L	10
002	MW-2	Aqueous	Xylenes (total)	8260B	11		ug/L	10
002	MW-2	Aqueous	Barium	6010C	0.13		mg/L	11
002	MW-2	Aqueous	Lead	6010C	0.0019	J	mg/L	11
003	MW-2D	Aqueous	Trichloroethene	8260B	0.21	J	ug/L	12
003	MW-2D	Aqueous	Barium	6010C	0.016	J	mg/L	14
003	MW-2D	Aqueous	Cadmium	6010C	0.00073	J	mg/L	14
004	MW-3	Aqueous	Barium	6010C	0.073		mg/L	17
004	MW-3	Aqueous	Selenium	6010C	0.0031	J	mg/L	17
005	MW-4	Aqueous	Benzene	8260B	4.1		ug/L	18
005	MW-4	Aqueous	Chlorobenzene	8260B	8.6		ug/L	18
005	MW-4	Aqueous	1,2-Dichlorobenzene	8260B	1.2		ug/L	18
005	MW-4	Aqueous	1,4-Dichlorobenzene	8260B	12		ug/L	18
005	MW-4	Aqueous	1,1-Dichloroethane	8260B	4.3		ug/L	18
005	MW-4	Aqueous	cis-1,2-Dichloroethene	8260B	3.1		ug/L	18
005	MW-4	Aqueous	1,2-Dichloropropane	8260B	0.82	J	ug/L	18
005	MW-4	Aqueous	Toluene	8260B	0.43	J	ug/L	18
005	MW-4	Aqueous	Trichloroethene	8260B	0.60	J	ug/L	18
005	MW-4	Aqueous	Vinyl chloride	8260B	3.1		ug/L	19
005	MW-4	Aqueous	Arsenic	6010C	0.039		mg/L	20
005	MW-4	Aqueous	Barium	6010C	0.029		mg/L	20
005	MW-4	Aqueous	Cadmium	6010C	0.0021		mg/L	20
005	MW-4	Aqueous	Silver	6010C	0.023		mg/L	20
006	MW-4D	Aqueous	Benzene	8260B	0.29	J	ug/L	21

Executive Summary (Continued)

Lot Number: NL10035

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
006	MW-4D	Aqueous	Chlorobenzene	8260B	10		ug/L	21
006	MW-4D	Aqueous	1,2-Dichlorobenzene	8260B	1.7		ug/L	21
006	MW-4D	Aqueous	1,4-Dichlorobenzene	8260B	11		ug/L	21
006	MW-4D	Aqueous	1,1-Dichloroethane	8260B	2.6		ug/L	21
006	MW-4D	Aqueous	cis-1,2-Dichloroethene	8260B	14		ug/L	21
006	MW-4D	Aqueous	1,2-Dichloropropane	8260B	0.83	J	ug/L	21
006	MW-4D	Aqueous	Trichloroethene	8260B	1.2		ug/L	21
006	MW-4D	Aqueous	Vinyl chloride	8260B	6.0		ug/L	22
006	MW-4D	Aqueous	Barium	6010C	0.14		mg/L	23
006	MW-4D	Aqueous	Cadmium	6010C	0.020		mg/L	23
006	MW-4D	Aqueous	Chromium	6010C	0.0025	J	mg/L	23
006	MW-4D	Aqueous	Lead	6010C	0.0035	J	mg/L	23
006	MW-4D	Aqueous	Silver	6010C	0.0023	J	mg/L	23
008	Upstream	Aqueous	Trichloroethene	8260B	0.55	J	ug/L	24
008	Upstream	Aqueous	Barium	6010C	0.011	J	mg/L	26
008	Upstream	Aqueous	Selenium	6010C	0.0043	J	mg/L	26
009	Downstream	Aqueous	cis-1,2-Dichloroethene	8260B	0.18	J	ug/L	27
009	Downstream	Aqueous	Trichloroethene	8260B	0.23	J	ug/L	27
009	Downstream	Aqueous	Barium	6010C	0.011	J	mg/L	29

(64 detections)

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Description: **MW-1**
Date Sampled: **12/08/2012 1230**
Date Received: **12/10/2012**

Laboratory ID: **NL10035-001**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/14/2012 0408	DD		99595

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**	**0.81**	**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**	**0.13**	**J**	**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**	**0.42**	**J**	**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**	**3.0**		**1.0**	**0.33**	**ug/L**	**1**
1,1-Dichloroethane	**75-34-3**	**8260B**	**0.78**	**J**	**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**	**3.8**		**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**	**2.0**		**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**	**0.64**	**J**	**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
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure
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)

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Description: **MW-1**
Date Sampled: **12/08/2012 1230**
Date Received: **12/10/2012**

Laboratory ID: **NL10035-001**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/14/2012 0408	DD		99595

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND	L	5.0	1.3	ug/L	1
Vinyl chloride	**75-01-4**	**8260B**	**0.27**	**J**	**1.0**	**0.054**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**13**		**1.0**	**0.33**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		116	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		95	70-130

PQL = Practical quantitation limit
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P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure
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)

RCRA Metals

Client: **Buxton Environmental**
Laboratory ID: **NL10035-001**
Description: **MW-1**
Matrix: **Aqueous**
Date Sampled: **12/08/2012 1230**
Date Received: **12/10/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/14/2012 1627	COH	12/14/2012 1301	99635
1	3005A	6010C	1	12/13/2012 0030	CDF	12/12/2012 1005	99435

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	ND		0.010	0.0040	mg/L	1
Barium	**7440-39-3**	**6010C**	**0.031**		**0.025**	**0.0075**	**mg/L**	**1**
Cadmium	7440-43-9	6010C	ND		0.0020	0.00060	mg/L	1
Chromium	**7440-47-3**	**6010C**	**0.0061**		**0.0050**	**0.0021**	**mg/L**	**1**
Lead	7439-92-1	6010C	ND		0.010	0.0019	mg/L	1
Mercury	**7439-97-6**	**7470A**	**0.00028**		**0.00010**	**0.000053**	**mg/L**	**1**
Selenium	**7782-49-2**	**6010C**	**0.0087**	**J**	**0.010**	**0.0026**	**mg/L**	**1**
Silver	7440-22-4	6010C	ND		0.0050	0.00040	mg/L	1

PQL = Practical quantitation limit
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S = MS/MSD failure
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* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Description: **MW-2**
Date Sampled: **12/08/2012 1300**
Date Received: **12/10/2012**

Laboratory ID: **NL10035-002**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/14/2012 0431	DD		99595

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**	**2.6**		**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	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**	**4.1**		**1.0**	**0.33**	**ug/L**	**1**
1,1-Dichloroethane	**75-34-3**	**8260B**	**3.2**		**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**	**90**		**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**	**9.2**		**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**	**1.4**		**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**	**2.5**		**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
Q = Surrogate failure
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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: **NL10035-002**
Description: **MW-2**
Matrix: **Aqueous**
Date Sampled: **12/08/2012 1300**
Date Received: **12/10/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/14/2012 0431	DD		99595

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND	L	5.0	1.3	ug/L	1
Vinyl chloride	**75-01-4**	**8260B**	**5.7**		**1.0**	**0.054**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**11**		**1.0**	**0.33**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		114	70-130
Bromofluorobenzene		99	70-130
Toluene-d8		93	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
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure
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)

RCRA Metals

Client: **Buxton Environmental**
Description: **MW-2**
Date Sampled: **12/08/2012 1300**
Date Received: **12/10/2012**

Laboratory ID: **NL10035-002**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/14/2012 1629	COH	12/14/2012 1301	99635
1	3005A	6010C	1	12/13/2012 0034	CDF	12/12/2012 1005	99435

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	ND		0.010	0.0040	mg/L	1
Barium	**7440-39-3**	**6010C**	**0.13**		**0.025**	**0.0075**	**mg/L**	**1**
Cadmium	7440-43-9	6010C	ND		0.0020	0.00060	mg/L	1
Chromium	7440-47-3	6010C	ND		0.0050	0.0021	mg/L	1
Lead	**7439-92-1**	**6010C**	**0.0019**	**J**	**0.010**	**0.0019**	**mg/L**	**1**
Mercury	7439-97-6	7470A	ND		0.00010	0.000053	mg/L	1
Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	0.00040	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 | Q = Surrogate failure
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 | L = LCS/LCSD failure
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) | S = MS/MSD failure

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Description: **MW-2D**
Date Sampled: **12/08/2012 1330**
Date Received: **12/10/2012**

Laboratory ID: **NL10035-003**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/14/2012 0454	DD		99595

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**	**0.21**	**J**	**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
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure
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: **MW-2D**
Date Sampled: **12/08/2012 1330**
Date Received: **12/10/2012**

Laboratory ID: **NL10035-003**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/14/2012 0454	DD		99595

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND	L	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		116	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		93	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
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure
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)

RCRA Metals

Client: **Buxton Environmental**
Description: **MW-2D**
Date Sampled: **12/08/2012 1330**
Date Received: **12/10/2012**

Laboratory ID: **NL10035-003**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/14/2012 1633	COH	12/14/2012 1301	99635
1	3005A	6010C	1	12/13/2012 0038	CDF	12/12/2012 1005	99435

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	ND		0.010	0.0040	mg/L	1
Barium	**7440-39-3**	**6010C**	**0.016**	**J**	**0.025**	**0.0075**	**mg/L**	**1**
Cadmium	**7440-43-9**	**6010C**	**0.00073**	**J**	**0.0020**	**0.00060**	**mg/L**	**1**
Chromium	7440-47-3	6010C	ND		0.0050	0.0021	mg/L	1
Lead	7439-92-1	6010C	ND		0.010	0.0019	mg/L	1
Mercury	7439-97-6	7470A	ND		0.00010	0.000053	mg/L	1
Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	0.00040	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 | Q = Surrogate failure
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 | L = LCS/LCSD failure
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) | S = MS/MSD failure

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Description: **MW-3**
Date Sampled: **12/08/2012 1545**
Date Received: **12/10/2012**

Laboratory ID: **NL10035-004**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/14/2012 0517	DD		99595

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
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure
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: **NL10035-004**
Description: **MW-3**
Matrix: **Aqueous**
Date Sampled: **12/08/2012 1545**
Date Received: **12/10/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/14/2012 0517	DD		99595

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND	L	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		121	70-130
Bromofluorobenzene		106	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
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure
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)

RCRA Metals

Client: **Buxton Environmental**
Laboratory ID: **NL10035-004**
Description: **MW-3**
Matrix: **Aqueous**
Date Sampled: **12/08/2012 1545**
Date Received: **12/10/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/14/2012 1635	COH	12/14/2012 1301	99635
1	3005A	6010C	1	12/13/2012 0041	CDF	12/12/2012 1005	99435

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	ND		0.010	0.0040	mg/L	1
Barium	**7440-39-3**	**6010C**	**0.073**		**0.025**	**0.0075**	**mg/L**	**1**
Cadmium	7440-43-9	6010C	ND		0.0020	0.00060	mg/L	1
Chromium	7440-47-3	6010C	ND		0.0050	0.0021	mg/L	1
Lead	7439-92-1	6010C	ND		0.010	0.0019	mg/L	1
Mercury	7439-97-6	7470A	ND		0.00010	0.000053	mg/L	1
Selenium	**7782-49-2**	**6010C**	**0.0031**	**J**	**0.010**	**0.0026**	**mg/L**	**1**
Silver	7440-22-4	6010C	ND		0.0050	0.00040	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
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure
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: **MW-4**
Date Sampled: **12/08/2012 1500**
Date Received: **12/10/2012**

Laboratory ID: **NL10035-005**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/14/2012 0604	DD		99595

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**	**4.1**		**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**	**8.6**		**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**	**1.2**		**1.0**	**0.33**	**ug/L**	**1**
1,4-Dichlorobenzene	**106-46-7**	**8260B**	**12**		**1.0**	**0.33**	**ug/L**	**1**
1,1-Dichloroethane	**75-34-3**	**8260B**	**4.3**		**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**	**3.1**		**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**	**0.82**	**J**	**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**	**0.43**	**J**	**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**	**0.60**	**J**	**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 | Q = Surrogate failure
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 | L = LCS/LCSD failure
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) | S = MS/MSD failure

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **NL10035-005**
Description: **MW-4**
Matrix: **Aqueous**
Date Sampled: **12/08/2012 1500**
Date Received: **12/10/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/14/2012 0604	DD		99595

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND	L	5.0	1.3	ug/L	1
Vinyl chloride	**75-01-4**	**8260B**	**3.1**		**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		123	70-130
Bromofluorobenzene		107	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
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure
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)

RCRA Metals

Client: **Buxton Environmental**
Laboratory ID: **NL10035-005**
Description: **MW-4**
Matrix: **Aqueous**
Date Sampled: **12/08/2012 1500**
Date Received: **12/10/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/14/2012 1638	COH	12/14/2012 1301	99635
1	3005A	6010C	1	12/13/2012 0045	CDF	12/12/2012 1005	99435

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	**7440-38-2**	**6010C**	**0.039**		**0.010**	**0.0040**	**mg/L**	**1**
Barium	**7440-39-3**	**6010C**	**0.029**		**0.025**	**0.0075**	**mg/L**	**1**
Cadmium	**7440-43-9**	**6010C**	**0.0021**		**0.0020**	**0.00060**	**mg/L**	**1**
Chromium	7440-47-3	6010C	ND		0.0050	0.0021	mg/L	1
Lead	7439-92-1	6010C	ND		0.010	0.0019	mg/L	1
Mercury	7439-97-6	7470A	ND		0.00010	0.000053	mg/L	1
Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Silver	**7440-22-4**	**6010C**	**0.023**		**0.0050**	**0.00040**	**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 | Q = Surrogate failure
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 | L = LCS/LCSD failure
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) | S = MS/MSD failure

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **NL10035-006**
Description: **MW-4D**
Matrix: **Aqueous**
Date Sampled: **12/08/2012 1515**
Date Received: **12/10/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/14/2012 0627	DD		99595

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**	**0.29**	**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**	**10**		**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**	**1.7**		**1.0**	**0.33**	**ug/L**	**1**
1,4-Dichlorobenzene	**106-46-7**	**8260B**	**11**		**1.0**	**0.33**	**ug/L**	**1**
1,1-Dichloroethane	**75-34-3**	**8260B**	**2.6**		**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**	**14**		**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**	**0.83**	**J**	**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**	**1.2**		**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 | Q = Surrogate failure
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 | L = LCS/LCSD failure
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) | S = MS/MSD failure

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **NL10035-006**
Description: **MW-4D**
Matrix: **Aqueous**
Date Sampled: **12/08/2012 1515**
Date Received: **12/10/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/14/2012 0627	DD		99595

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND	L	5.0	1.3	ug/L	1
Vinyl chloride	**75-01-4**	**8260B**	**6.0**		**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		122	70-130
Bromofluorobenzene		104	70-130
Toluene-d8		95	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
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure
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)

RCRA Metals

Client: **Buxton Environmental**
Laboratory ID: **NL10035-006**
Description: **MW-4D**
Matrix: **Aqueous**
Date Sampled: **12/08/2012 1515**
Date Received: **12/10/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/14/2012 1640	COH	12/14/2012 1301	99635
1	3005A	6010C	1	12/13/2012 0049	CDF	12/12/2012 1005	99435

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	ND		0.010	0.0040	mg/L	1
Barium	**7440-39-3**	**6010C**	**0.14**		**0.025**	**0.0075**	**mg/L**	**1**
Cadmium	**7440-43-9**	**6010C**	**0.020**		**0.0020**	**0.00060**	**mg/L**	**1**
Chromium	**7440-47-3**	**6010C**	**0.0025**	**J**	**0.0050**	**0.0021**	**mg/L**	**1**
Lead	**7439-92-1**	**6010C**	**0.0035**	**J**	**0.010**	**0.0019**	**mg/L**	**1**
Mercury	7439-97-6	7470A	ND		0.00010	0.000053	mg/L	1
Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Silver	**7440-22-4**	**6010C**	**0.0023**	**J**	**0.0050**	**0.00040**	**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 | Q = Surrogate failure
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 | L = LCS/LCSD failure
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) | S = MS/MSD failure

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Description: **Upstream**
Date Sampled: **12/08/2012 1430**
Date Received: **12/10/2012**

Laboratory ID: **NL10035-008**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/14/2012 0650	DD		99595

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**	**0.55**	**J**	**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
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure
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: **NL10035-008**
Description: **Upstream**
Matrix: **Aqueous**
Date Sampled: **12/08/2012 1430**
Date Received: **12/10/2012**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/14/2012 0650	DD		99595

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND	L	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		119	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		94	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
Q = Surrogate failure
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
L = LCS/LCSD failure
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)
S = MS/MSD failure

RCRA Metals

Client: **Buxton Environmental**
Description: **Upstream**
Date Sampled: **12/08/2012 1430**
Date Received: **12/10/2012**

Laboratory ID: **NL10035-008**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/14/2012 1643	COH	12/14/2012 1301	99635
1	3005A	6010C	1	12/13/2012 0101	CDF	12/12/2012 1005	99435

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	ND		0.010	0.0040	mg/L	1
Barium	**7440-39-3**	**6010C**	**0.011**	**J**	**0.025**	**0.0075**	**mg/L**	**1**
Cadmium	7440-43-9	6010C	ND		0.0020	0.00060	mg/L	1
Chromium	7440-47-3	6010C	ND		0.0050	0.0021	mg/L	1
Lead	7439-92-1	6010C	ND		0.010	0.0019	mg/L	1
Mercury	7439-97-6	7470A	ND		0.00010	0.000053	mg/L	1
Selenium	**7782-49-2**	**6010C**	**0.0043**	**J**	**0.010**	**0.0026**	**mg/L**	**1**
Silver	7440-22-4	6010C	ND		0.0050	0.00040	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
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure
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: **Downstream**
Date Sampled: **12/08/2012 1600**
Date Received: **12/10/2012**

Laboratory ID: **NL10035-009**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/14/2012 0810	DD		99596

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**	**0.18**	**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**	**0.23**	**J**	**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 | Q = Surrogate failure
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 | L = LCS/LCSD failure
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) | S = MS/MSD failure

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Description: **Downstream**
Date Sampled: **12/08/2012 1600**
Date Received: **12/10/2012**

Laboratory ID: **NL10035-009**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/14/2012 0810	DD		99596

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		90	70-130
Bromofluorobenzene		89	70-130
Toluene-d8		95	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
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure
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)

RCRA Metals

Client: **Buxton Environmental**
Description: **Downstream**
Date Sampled: **12/08/2012 1600**
Date Received: **12/10/2012**

Laboratory ID: **NL10035-009**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/14/2012 1651	COH	12/14/2012 1301	99635
1	3005A	6010C	1	12/13/2012 0104	CDF	12/12/2012 1005	99435

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	ND		0.010	0.0040	mg/L	1
Barium	**7440-39-3**	**6010C**	**0.011**	**J**	**0.025**	**0.0075**	**mg/L**	**1**
Cadmium	7440-43-9	6010C	ND		0.0020	0.00060	mg/L	1
Chromium	7440-47-3	6010C	ND		0.0050	0.0021	mg/L	1
Lead	7439-92-1	6010C	ND		0.010	0.0019	mg/L	1
Mercury	7439-97-6	7470A	ND		0.00010	0.000053	mg/L	1
Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	0.00040	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 | Q = Surrogate failure
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 | L = LCS/LCSD failure
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) | S = MS/MSD failure

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Description: **Trip Blank**
Date Sampled: **12/08/2012**
Date Received: **12/10/2012**

Laboratory ID: **NL10035-010**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/14/2012 0346	DD		99596

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 | Q = Surrogate failure
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 | L = LCS/LCSD failure
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) | S = MS/MSD failure

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Description: **Trip Blank**
Date Sampled: **12/08/2012**
Date Received: **12/10/2012**

Laboratory ID: **NL10035-010**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/14/2012 0346	DD		99596

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		90	70-130
Bromofluorobenzene		96	70-130
Toluene-d8		93	70-130

PQL = Practical quantitation limit
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L = LCS/LCSD failure
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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)

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

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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 29618

Client: Burton Environmental, Inc	Report to Contact: Ross Klingman	Sampler (Printed Name): Ross Klingman	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. NaCH		Number of Containers / Bottle (See Instructions on back) / Preservative
Project Name: Gaston Co - Biggerstaff Landfill			Lot No. NL16035
Project Number: NC	P.O Number		

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: App IX VOCs	RCRA METALS										Remarks / Cooler ID
MW-1	12-8-12	12:30	G	✓					X	X										
MW-2	"	13:00	G	✓					X	X										
MW-2D	"	13:30	G	✓					X	X										
MW-3	"	15:45	G	✓					X	X										
MW-4	"	15:00	G	✓					X	X										
MW-4D	"	15:15	G	✓					X	X										
* ~~MW-5~~	~~"~~	~~14:00~~	G	✓					X		INSUFFICIENT H2O TO ANALYZE *									
UPSTREAM	"	14:30	G	✓					X	X										
DOWNSTREAM	"	16:00	G	✓					X	X										
TRIP BLANK	—	—	G	✓					X											

Turn Around Time Required (Prior lab approval required for expedited TAT): ☑ Standard ☐ Rush (Please Specify) 7 DAY TAT

Sample Disposal: ☐ Return to Client ☐ Disposal by Lab

QC Requirements (Specify): NC Solid Waste Rules / Low Detection & J-Qs Flags

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

	Date	Time		Date	Time
1. Relinquished by / Sampler	12-10-12	9:00	1. Received by: R. Pickard	12-10-12	900
2. Relinquished by: R. Pickard	12-10-12	15W	2. Received by	Date	Time
3. Relinquished by	Date	Time	3. Received by	Date	Time
4. Relinquished by	Date	Time	4. Laboratory Received by	12-10-12	15W

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

LAB USE ONLY: Received on Ice (Circle) ☐ Yes ☐ No ☐ Ice Pack; Receipt Temp. 1.2 °C; Temp. Blank ☐ Y / ☐ N

Level 1 Report v2.1

SHEALY ENVIRONMENTAL SERVICES, INC.

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.
Document Number: F-AD-016
Revision Number: 5

Replaces Date: 05/06/1..
Effective Date: 10/11/1..

Sample Receipt Checklist (SRC)

Client: Butler GNJ Cooler Inspected by/date: ECC 12/10/12 Lot #: NL 10035

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: 1.2 °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 ☑ ECC 12/10/12	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) -010 (2) 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: -007 had only (1) vial rec'd.

APPENDIX B
HISTORICAL GROUNDWATER ANALYTICAL RESULTS

MW-1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
GASTON COUNTY - CLOSED BIGGERSTAFF LANDFILL
GASTON COUNTY, NORTH CAROLINA

Date	*4/97*	*9/97*	*4/98*	*9/98*	*4/99*	*9/99*	*5/00*	*9/00*	*5/01*	*12/01*	*8/02*	*12/02*	*5/03*	*11/03*	*5/04*	*11/04*	*4/05*	*11/05*	*5/06*	*11/06*	*6/07*	*11/07*	*6/08*	*11/08*	*6/09*	*11/09*	*4/10*	*11/10*	*5/11*	*12/11*	*5/12*	*12/12*	*NCGPS*
Appendix I VOC's																																	
Acetone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	210	BDL	NT	NT	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.4BJ	BDL	BDL	BDL	BDL	13J	BDL	BDL	BDL	BDL	BDL	6,000
Benzene	BDL	BDL	BDL	BDL	BDL	**7**	BDL	BDL	BDL	NT	NT	NT	1	BDL	**2.6**	**3.1**	**2.6**	**3.3**	**3.2**	**2.7**	BDL	**2.6**	**2.4**	**2.3**	**2.2**	BDL	**2.5**	**3.4**	**2.5**	**2.7**	**2.4**	0.8J	1
Carbon Disulfide	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	NT	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.13J	700
Chlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	NT	NT	1.5	BDL	1	1.2	BDL	1.3	1.2	BDL	BDL	0.73J	0.67J	0.69J	0.66J	BDL	1	1.4	0.99J	1.1	BDL	0.42J	50
Chloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	NT	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.65J	0.73J	0.57J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3,000
1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	NT	NT	BDL	1.4	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.36J	0.38J	0.42J	BDL	BDL	0.41J	0.62J	0.5J	0.53J	0.42J	BDL	20
1,4-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	NT	NT	BDL	BDL	2.8	3.2	2.9	4	3.8	3.3	BDL	3	3	3.1	2.6	BDL	BDL	4.2	3.1	3.9	3.1	3	6
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	NT	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.1	1	0.96J	0.88J	BDL	0.77J	0.64J	0.78J	0.76J	0.8J	0.78J	6
1,1-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	NT	NT	BDL	BDL	BDL	BDL	BDL	BDL	1	1.1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7
cis-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	NT	NT	3	BDL	5.5	6.3	6.2	7.1	7.6	6.8	6.7	6.6	6.1	5.6	5.4	5.5	4.8	6.5	6.2	5.5	5.6	3.8	70
Methylene Chloride	BDL	BDL	**5.8 PC**	BDL	BDL	BDL	BDL	BDL	BDL	NT	NT	NT	BDL	BDL	BDL	**9**	**8.2**	**8.7**	**8.1**	**7.3**	**6.1**	**7B**	**5.4**	**5.2**	5	BDL	4	0.97J	0.59J	0.64J	0.54J	2	5
Tetrachloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	NT	NT	BDL	BDL	BDL	BDL	**4.3**	BDL	BDL	**1.2**	BDL	0.91J	0.99J	**1**	0.95J	BDL	0.76J	BDL	**1.2**	0.79J	0.76J	BDL	0.7
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	NT	NT	BDL	BDL	BDL	BDL	BDL	BDL	1	1.2	BDL	1.1	1.2	0.96J	0.91J	BDL	0.7J	BDL	0.86J	0.77J	0.81J	0.64J	3
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	NT	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.62J	BDL	BDL	BDL	BDL	0.44J	BDL	BDL	0.4J	0.34J	0.27J	0.03
Xylenes	27	BDL	BDL	25	21	10	BDL	25	14	NT	NT	NT	53	17	19	BDL	18	19	18	13	18	12	7	10	15	14	18	9.9	9.5	8.4	4.8	13	500
RCRA Metals																																	
Arsenic	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	NT	NT	BDL	**12**	BDL	**20**	BDL	**12**	**15**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5.3BJ	BDL	**12B**	BDL	10
Barium	53	62	56	610	BDL	BDL	BDL	BDL	BDL	NT	NT	NT	61	73	30	130	50	61	58	30	27	27	26	24	23J	28	25	26	26	27	31	31	700
Cadmium	BDL	2	BDL	BDL	BDL	BDL	1	BDL	BDL	NT	NT	NT	BDL	BDL	BDL	BDL	1.1	BDL	**2.2**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2
Chromium	**38**	**57**	**98**	**100**	**33**	**20**	**11**	**20**	BDL	NT	NT	NT	**20**	**110**	BDL	**260**	**14**	**84**	**88**	BDL	3.6J	7.1	BDL	2.2J	BDL	BDL	2.1J	2.7J	BDL	2.9J	BDL	6.1	10
Lead	8	**18**	9	9.8	BDL	BDL	BDL	BDL	BDL	NT	NT	NT	13	**16**	BDL	**41**	8.2	12	10	BDL	9	2.2J	BDL	3.9	5.1BJ	2.1J	BDL	BDL	4.2J	BDL	4.4J	BDL	15
Mercury	BDL	0.2	0.2	**1.2**	BDL	BDL	BDL	BDL	BDL	NT	NT	NT	BDL	0.51	0.51	0.29	BDL	0.18	0.24	BDL	0.068J	BDL	BDL	0.059J	BDL	BDL	BDL	BDL	0.064J	0.21	0.094J	0.28	1
Selenium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	NT	NT	BDL	BDL	BDL	BDL	BDL	BDL	6.3	BDL	BDL	BDL	2.6J	3.9J	BDL	BDL	3.9BJ	BDL	7J	3.3J	BDL	8.7J	20
Silver	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	NT	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.95J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.52J	BDL	BDL	BDL	20

Notes:

Groundwater samples collected on above listed dates and analyzed for Appendix I VOC's and RCRA metals.
BDL = below detection limit
NCGPS = North Carolina Groundwater Protection Standard
VOC's = volatile organic compounds
PC = suspected laboratory contaminant
NT = not tested, due to dry well
bold and shade denotes above NCGPS
data presented in micrograms per liter (ug/l)
B = detected in method blank
J = estimated result <PQL and >=MDL

MW-2
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
GASTON COUNTY - CLOSED BIGGERSTAFF LANDFILL
GASTON COUNTY, NORTH CAROLINA

Date	*4/97*	*9/97*	*4/98*	*9/98*	*4/99*	*9/99*	*5/00*	*9/00*	*5/01*	*12/01*	*8/02*	*12/02*	*5/03*	*11/03*	*5/04*	*11/04*	*4/05*	*11/05*	*5/06*	*11/06*	*6/07*	*11/07*	*6/08*	*11/08*	*6/09*	*11/09*	*4/10*	*11/10*	*5/11*	*12/11*	*5/12*	*12/12*	*NCGPS*
Appendix I VOC's																																	
Acetone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	76	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.5BJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6,000
Benzene	BDL	BDL	BDL	BDL	**10**	BDL	BDL	**9**	BDL	BDL	BDL	**1.1**	BDL	**2.3**	**7.6**	**5.6**	**1.1**	**8.8**	**8.6**	**3.6**	**5.9**	**4.7**	**7.3**	**5.4**	0.56J	BDL	0.22J	**6.1**	**4.8**	**4.3**	**2.8**	**2.6**	1
2-Butanone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6.4J	BDL	BDL	BDL	4,000
Carbon Disulfide	17	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	700
Chlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.32J	0.58J	0.37J	BDL	BDL	BDL	0.44J	0.48J	BDL	BDL	BDL	50
Chloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.55J	0.76J	0.56J	BDL	BDL	BDL	BDL	0.58J	BDL	BDL	BDL	3,000
1,4-Dichlorobenzene	BDL	BDL	BDL	BDL	6	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4.8	4.1	BDL	5	**6.8**	3.8	5.6	3.2	**7.4**	3.7	0.41J	BDL	BDL	5.7	6	5.4	3.5	4.1	6
1,1-Dichloroethane	**14**	BDL	BDL	**16**	**32**	**10**	5	**56**	**8.9**	**15.4**	4.6	**11**	BDL	2.8	**7.2**	**7.4**	1	**22**	**12**	2.7	BDL	**7.6**	5.8	**6.4**	0.5J	BDL	0.15J	5.9	2.9	3.5	1.6	3.2	6
1,2-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.21J	BDL	BDL	BDL	0.4
1,1-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.26J	BDL	BDL	BDL	BDL	BDL	1	BDL	0.22J	0.21J	BDL	7
cis-1,2-Dichloroethene	**480**	62	**100**	**210**	**300**	28	**91**	**160**	**96**	20.9	12.1	**170**	4	**190**	**250**	**140**	34	**310**	**320**	**290**	**260**	**160**	**210**	**150**	21	**95**	10	**270**	**160**	**200**	**110**	**90**	70
trans-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.3	BDL	BDL	BDL	0.58J	0.49J	0.45J	BDL	BDL	BDL	BDL	BDL	0.3J	0.28J	BDL	100
1,2-Dichloropropane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.22J	0.22J	BDL	BDL	BDL	BDL	0.76J	0.32J	0.34J	BDL	BDL	0.6
4-Methyl-2-Pentanone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.45J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	560
Methylene Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	**39**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	**5.6**	BDL	**46**	**29**	BDL	5	**17B**	**7.9**	**13**	1	BDL	BDL	**13**	2.8	4.4	0.98J	**9.2**	5
Styrene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.17J	BDL	BDL	BDL	70
Tetrachloroethene	**27**	**5.5**	**9.8**	**26**	**27**	**22**	BDL	**75**	**9**	**25.8**	**8.7**	**13**	**2**	BDL	**2.1**	**3.3**	**5**	**20**	**9.7**	**1.9**	BDL	**5.8**	**3**	**3.4**	0.35J	BDL	BDL	**1.8**	**1.7**	**1.7**	0.38J	**1.4**	0.7
1,1,1-Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.095J	BDL	BDL	200
Trichloroethene	**14**	BDL	BDL	**9**	**18**	BDL	BDL	**31**	**9.1**	**6.6**	2.6	**8.9**	BDL	**7.2**	**4.9**	**3.6**	2.1	**16**	**11**	**4.3**	BDL	**6.1**	**5.5**	**4.4**	0.36J	BDL	BDL	**3.7**	**3.5**	3	1.1	2.5	3
Vinyl Chloride	**20**	BDL	**16**	**18**	**26**	**10**	**54**	**37**	**84**	**11.5**	**5.3**	BDL	**4.1**	BDL	**30**	**21**	**22**	**40**	**17**	**18**	**26**	**11**	**18**	**5.1**	**1.8**	**33**	**5.9**	**23**	**19**	**11**	**22**	**5.7**	0.03
Xylenes	BDL	BDL	BDL	BDL	12	BDL	BDL	25	BDL	14.3	BDL	5	BDL	BDL	2.9	3.2	BDL	32	16	1	BDL	6.2	3.8	5.6	BDL	BDL	BDL	0.58J	2.3	3.8	1	11	500
RCRA Metals																																	
Arsenic	**17**	**11**	7	6	BDL	BDL	BDL	BDL	**17**	BDL	BDL	BDL	BDL	BDL	5	BDL	BDL	BDL	BDL	8.8	BDL	4.5J	BDL	BDL	BDL	BDL	BDL	BDL	5.3BJ	BDL	**14B**	BDL	10
Barium	**1,200**	**3,000**	**830**	560	BDL	BDL	BDL	BDL	BDL	129	113	150	130	170	270	110	130	220	260	270	200	130	110	100	50	74	20J	130	69	46	59	130	700
Cadmium	2	**7**	BDL	BDL	2	**3**	**4**	**3**	BDL	BDL	2	BDL	BDL	BDL	BDL	**11**	**2.1**	BDL	**2.1**	**2.6**	**3.5**	BDL	0.8J	BDL	BDL	1.2J	**2.4**	BDL	BDL	0.86J	BDL	BDL	2
Chromium	**19**	**21**	**13**	**19**	BDL	BDL	BDL	BDL	BDL	BDL	8	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6	9.6	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.8J	BDL	BDL	BDL	10
Lead	**120**	**180**	**52**	**48**	BDL	**31**	12	**19**	BDL	BDL	BDL	BDL	8.5	9	11	7.6	4.9	BDL	9.4	12	3.4	BDL	3B	2.8J	5BJ	BDL	BDL	3.1J	13	BDL	8.3J	1.9J	15
Mercury	BDL	0.2	BDL	0.87	BDL	BDL	BDL	BDL	BDL	0.4	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.13	BDL	BDL	1
Selenium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.6J	BDL	BDL	3J	BDL	3.2J	8.1BJ	BDL	BDL	BDL	BDL	BDL	20
Silver	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	**22**	BDL	7	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.98J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.74J	BDL	BDL	BDL	20

Notes:

Groundwater samples collected on above listed dates and analyzed for Appendix I VOC's and RCRA metals.
BDL = below detection limit
NCGPS = North Carolina Groundwater Protection Standard
VOC's = volatile organic compounds
bold and shade denotes above NCGPS
data presented in micrograms per liter (ug/l)
B = detected in method blank
J = estimated result <PQL and >=MDL

MW-2D
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
GASTON COUNTY - CLOSED BIGGERSTAFF LANDFILL
GASTON COUNTY, NORTH CAROLINA

Date	*9/00*	*5/01*	*12/01*	*8/02*	*12/02*	*5/03*	*11/03*	*5/04*	*11/04*	*4/05*	*11/05*	*5/06*	*11/06*	*6/07*	*11/07*	*6/08*	*11/08*	*6/09*	*11/09*	*4/10*	*11/10*	*5/11*	*12/11*	*5/12*	*12/12*	*NCGPS*
Appendix I VOC's																										
Acetone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3BJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6,000
cis-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.31J	0.2J	0.21J	BDL	BDL	0.17J	0.58J	BDL	0.32J	0.32J	BDL	70
Tetrachloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.17J	BDL	0.15J	BDL	BDL	BDL	BDL	0.6J	0.26J	0.24J	BDL	0.7
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.21J	0.7
RCRA Metals																										
Arsenic	**47**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	10
Barium	**1,600**	BDL	27	26	29	26	26	BDL	29	BDL	BDL	BDL	36	22J	27	16J	20J	12J	22J	13J	31	17J	17J	19J	16J	700
Cadmium	**61**	1	1	BDL	BDL	BDL	BDL	BDL	1.1	**3.5**	BDL	1.2	BDL	BDL	BDL	BDL	0.64J	BDL	BDL	BDL	0.69J	BDL	BDL	BDL	0.73J	2
Chromium	**44**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	10
Lead	**150**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.2	BDL	BDL	BDL	BDL	5.1	5.8BJ	BDL	BDL	BDL	BDL	3.2J	3.2J	BDL	15
Mercury	BDL	BDL	0.6	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.061J	BDL	BDL	1
Selenium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.6BJ	3J	BDL	3.3J	BDL	BDL	BDL	6.2J	BDL	BDL	BDL	20
Silver	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.7J	BDL	BDL	BDL	BDL	0.99J	BDL	BDL	0.41J	BDL	BDL	BDL	20

Notes:

Groundwater samples collected on above listed dates and analyzed for Appendix I VOC's and RCRA metals.
BDL = below detection limit
NCGPS = North Carolina Groundwater Protection Standard
VOC's = volatile organic compounds
NA = not applicable
bold and shade denotes above NCGPS
data presented in micrograms per liter (ug/l)
B = detected in method blank
J = estimated result <PQL and >=MDL

MW-3
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
GASTON COUNTY - CLOSED BIGGERSTAFF LANDFILL
GASTON COUNTY, NORTH CAROLINA

Date	*4/97*	*9/97*	*4/98*	*9/98*	*4/99*	*9/99*	*5/00*	*9/00*	*5/01*	*12/01*	*8/02*	*12/02*	*5/03*	*11/03*	*5/04*	*11/04*	*4/05*	*11/05*	*5/06*	*11/06*	*6/07*	*11/07*	*6/08*	*11/08*	*6/09*	*11/09*	*4/10*	*11/10*	*5/11*	*12/11*	*5/12*	*12/12*	*NCGPS*
Appendix I VOC's																																	
Acetone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.4BJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6,000
Benzene	BDL	BDL	BDL	BDL	**6**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1
Chlorobenzene	BDL	BDL	BDL	BDL	6	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	50
1,4-Dichlorobenzene	BDL	BDL	BDL	BDL	**10**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6
1,1-Dichloroethane	BDL	BDL	BDL	BDL	**39**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6
cis-1,2-Dichloroethene	BDL	BDL	BDL	BDL	19	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	70
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.82J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	600
Vinyl Chloride	BDL	BDL	BDL	BDL	**19**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.03
RCRA Metals																																	
Arsenic	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6.1	BDL	**14**	BDL	BDL	BDL	4J	BDL	BDL	BDL	BDL	9.4BJ	BDL	BDL	BDL	10
Barium	180	260	190	260	BDL	BDL	BDL	BDL	BDL	41	65	100	54	90	110	87	44	120	120	180	35	50	49	40	35	110	34	80	40	41	41	73	700
Cadmium	BDL	**6**	BDL	BDL	1	1	**4**	**8**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.1	BDL	BDL	1.3	BDL	BDL	1.2J	BDL	BDL	**2.5**	BDL	0.61J	BDL	BDL	BDL	BDL	2
Chromium	BDL	**10**	**12**	**24**	BDL	BDL	BDL	**14**	BDL	BDL	BDL	BDL	BDL	5	BDL	BDL	BDL	6.5	BDL	**12**	2.6J	BDL	BDL	BDL	BDL	6.1	BDL	2.8J	3.6J	2.2J	BDL	BDL	10
Lead	**50**	**53**	**53**	**95**	**38**	**42**	12	**63**	BDL	**56**	12	**22**	5.2	14	**17**	13	BDL	**18**	12	**30**	BDL	3	6.5B	6.4	3.8BJ	**21**	BDL	5.4J	11	6.9J	3.5J	BDL	15
Mercury	BDL	BDL	BDL	0.56	BDL	BDL	BDL	BDL	BDL	0.4	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.059J	BDL	BDL	BDL	0.067J	BDL	BDL	1
Selenium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.9BJ	2.8J	3.2J	BDL	BDL	BDL	BDL	3.3J	BDL	5.5J	3.1J	20
Silver	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.91J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.98J	BDL	BDL	BDL	20

Notes:

Groundwater samples collected on above listed dates and analyzed for Appendix I VOC's and RCRA metals.
BDL = below detection limit
NCGPS = North Carolina Groundwater Protection Standard
VOC's = volatile organic compounds
bold and shade denotes above NCGPS
data presented in micrograms per liter (ug/l)
B = detected in method blank
J = estimated result <PQL and >=MDL

MW-4
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
GASTON COUNTY - CLOSED BIGGERSTAFF LANDFILL
GASTON COUNTY, NORTH CAROLINA

Date	*4/97*	*9/97*	*4/98*	*9/98*	*4/99*	*9/99*	*5/00*	*9/00*	*5/01*	*12/01*	*8/02*	*12/02*	*5/03*	*11/03*	*5/04*	*11/04*	*4/05*	*11/05*	*5/06*	*11/06*	*6/07*	*11/07*	*6/08*	*11/08*	*6/09*	*11/09*	*4/10*	*11/10*	*5/11*	*12/11*	*5/12*	*12/12*	*NCGPS*
Appendix I VOC's																																	
Acetone	BDL	130	BDL	BDL	BDL	BDL	BDL	140	BDL	BDL	BDL	BDL	51	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.8BJ	BDL	7.3J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6,000
Benzene	**6.2**	**7.8**	**5.4**	BDL	**6**	**10**	BDL	BDL	BDL	**7.7**	BDL	BDL	BDL	**2.9**	**4.6**	**1.6**	**2.6**	**5.5**	**5.6**	**1.4**	**5.6**	**6.6**	**4.4**	**5.4**	0.28J	BDL	1	**7.4**	**2.4**	0.52J	0.39J	**4.1**	1
Chlorobenzene	BDL	BDL	BDL	BDL	6	7	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.5	7.4	1.4	3.6	6.8	9.2	1.6	9.7	7.8	8.9	7.4	BDL	BDL	1.4	11	4	1.2	BDL	8.6	50
Chloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.3	2.3	BDL	BDL	2.9	2.1	BDL	BDL	2.1	1.8J	1.4J	BDL	BDL	BDL	1.3J	BDL	BDL	BDL	BDL	3,000
1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.8	BDL	BDL	2	2.5	BDL	13	2.5	2.8	2.4	BDL	BDL	BDL	2.5	1.1	BDL	BDL	1.2	20
1,4-Dichlorobenzene	**6.2**	BDL	BDL	5.3	**10**	**12**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.9	**8.9**	1.3	3.8	**9.5**	**10**	1.2	**12**	**13**	**12**	**12**	0.56J	BDL	0.9J	**15**	4.7	0.6J	0.7J	**12**	6
1,1-Dichloroethane	**56**	**49**	**27**	**32**	**37**	**48**	**14**	**16**	**14**	**20**	BDL	BDL	BDL	**7.9**	**12**	4	5.6	**9.3**	**8.2**	2.4	**8.1**	**8.1**	**6.5**	**6.4**	BDL	BDL	0.9J	**8**	2.1	0.66J	0.4J	4.3	6
1,2-Dichloroethane	**8.3**	BDL	BDL	BDL	BDL	**6**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	**1.9**	BDL	BDL	**1.1**	**1**	BDL	BDL	0.67J	BDL	BDL	BDL	BDL	BDL	BDL	0.16J	BDL	BDL	BDL	0.4
cis-1,2-Dichloroethene	28	38	26	20	18	41	5	17	5.5	11.1	BDL	BDL	2.1	4.4	10	3.3	5.2	10	9.6	2.5	9	11	5.8	8.6	0.23J	BDL	0.57J	6.4	1.9	0.37J	0.16J	3.1	70
trans-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.32J	0.21J	0.26J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	100
1,2-Dichloropropane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	**1.2**	BDL	BDL	BDL	**1.2**	BDL	BDL	**1.5**	**1.2**	**1.2**	BDL	BDL	BDL	**1.5**	0.39J	BDL	BDL	0.82J	0.60
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.3	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.24J	BDL	BDL	BDL	BDL	1.1	BDL	BDL	0.61J	BDL	BDL	600
Methylene Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.89BJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.2	BDL	1.2	BDL	BDL	BDL	BDL	BDL	BDL	1.2	0.55J	0.65J	BDL	BDL	BDL	BDL	0.53J	BDL	BDL	0.43J	600
Trichloroethene	BDL	**5.3**	BDL	BDL	BDL	**8**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.8	BDL	1.6	2.1	2.9	1.1	BDL	2.4	1	1.5	BDL	BDL	0.2J	BDL	0.27J	BDL	BDL	0.6J	3
Vinyl Chloride	BDL	**11**	BDL	**13**	**18**	**22**	**14**	BDL	BDL	**7.6**	BDL	BDL	**3.7**	BDL	**9.9**	**6.2**	**11**	**18**	**9.2**	**6.7**	**9.6**	**11**	**6.2**	**7.3**	**1.4**	BDL	**2.5**	**6.5**	**1.8**	**1**	0.52J	**3.1**	0.03
Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.33J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	500
RCRA Metals																																	
Arsenic	**12**	**13**	5	BDL	BDL	BDL	BDL	BDL	**19**	8	6	BDL	BDL	**16**	**12**	5.3	BDL	**12**	**18**	7.4	**19**	**18**	**19**	**17**	5.5J	BDL	BDL	**25**	**28B**	5.5BJ	4.3BJ	**39**	10
Barium	290	250	110	160	BDL	BDL	BDL	BDL	BDL	92	180	BDL	BDL	88	91	39	43	110	150	36	110	45	120	57	7.9J	15J	12J	15J	24J	12J	10J	29	700
Cadmium	**24**	**44**	**22**	**7.1**	**13**	**10**	**12**	**5**	2	**3.6**	BDL	BDL	BDL	BDL	**5**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.2J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	**2.1**	2
Chromium	**15**	10	5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4.6J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	10
Lead	**39**	**30**	13	6.3	BDL	**86**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6.6	BDL	BDL	BDL	8.8	BDL	5.3B	7.8	4.7BJ	BDL	2.1J	BDL	BDL	BDL	4.9J	BDL	15
Mercury	BDL	BDL	BDL	**4.2**	BDL	0.4	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.092J	0.086J	BDL	1
Selenium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6	BDL	BDL	BDL	5.6	BDL	BDL	BDL	6.5	BDL	BDL	BDL	BDL	4.5J	17	BDL	3.7J	2.8BJ	BDL	14	BDL	BDL	BDL	20
Silver	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	11	7.3	BDL	0.82BJ	BDL	BDL	BDL	BDL	18	BDL	BDL	**23**	20

Notes:

Groundwater samples collected on above listed dates and analyzed for Appendix I VOC's and RCRA metals.
BDL = below detection limit
NCGPS = North Carolina Groundwater Protection Standard
VOC's = volatile organic compounds
bold and shade denotes above NCGPS
data presented in micrograms per liter (ug/l)
B = detected in method blank
J = estimated result <PQL and >=MDL

MW-4D
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
GASTON COUNTY - CLOSED BIGGERSTAFF LANDFILL
GASTON COUNTY, NORTH CAROLINA

Date	*9/00*	*5/01*	*12/01*	*8/02*	*12/02*	*5/03*	*11/03*	*5/04*	*11/04*	*4/05*	*11/05*	*5/06*	*11/06*	*6/07*	*11/07*	*6/08*	*11/08*	*6/09*	*11/09*	*4/10*	*11/10*	*5/11*	*12/11*	*5/12*	*12/12*	*NCGPS*
Appendix I VOC's																										
Acetone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3BJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6,000
Benzene	BDL	BDL	BDL	BDL	**2.1**	BDL	BDL	**2.4**	**2.4**	**2.2**	**2.2**	**2.2**	**2**	BDL	**2.1**	**1.8**	**1.8**	**2.4**	BDL	**2.2**	**2.4**	**2**	**1.8**	**2.1**	0.29J	1
Chlorobenzene	BDL	5.6	BDL	BDL	4.1	5.7	4.3	6.7	7.5	7.6	8.5	10	9.6	11	9.2	8.8	8.8	11	9.1	11	12	8.9	9.4	10	10	50
Chloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.63J	BDL	0.62J	BDL	BDL	BDL	BDL	BDL	BDL	0.48J	BDL	3,000
1,2-Dichlorobenzene	BDL	BDL	2.4	BDL	2.7	3.4	2	3.9	3.9	3.7	4	4.3	3.9	13	3.6	3.6	3.7	3.9	BDL	3.5	3.5	2.7	2.6	2.6	1.7	20
1,4-Dichlorobenzene	BDL	**8.6**	BDL	BDL	**9**	**7.8**	**7.2**	**9.2**	**9.2**	**9.5**	**10**	**10**	**10**	**11**	**10**	**10**	**11**	**11**	**10**	**12**	**12**	**9.5**	**10**	**10**	**11**	6
1,1-Dichloroethane	**8**	**8.1**	**8.2**	BDL	**6.3**	4.9	1.8	4.5	4.2	4.4	4.2	3.4	3.5	BDL	3.5	3.4	3.5	2	BDL	3	3.9	2.8	2.6	3.4	2.6	6
1,2-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.25J	BDL	BDL	BDL	0.4
cis-1,2-Dichloroethene	BDL	BDL	5.2	BDL	5.2	4	BDL	5.2	6.3	7	8	7.8	8.9	9.2	12	13	13	9	13	12	15	15	13	19	14	70
trans-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.22J	BDL	BDL	0.24J	BDL	BDL	100
1,2-Dichloropropane	BDL	BDL	BDL	BDL	**1**	**1**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.94J	0.89J	0.82J	0.45J	BDL	0.83J	**1.3**	0.85J	0.74J	0.78J	0.83J	0.6
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.25J	0.34J	BDL	0.38J	BDL	BDL	BDL	0.33J	BDL	BDL	BDL	600
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1	1.1	1.1	0.77J	BDL	0.99J	BDL	1.4	1.2	1.9	1.2	3
Vinyl Chloride	BDL	BDL	**5.5**	BDL	BDL	**4.7**	BDL	**4.9**	**3.9**	**5**	**6.7**	**3.8**	**5**	**5**	**5.2**	**6.1**	**4.9**	**5.2**	**6.2**	**5.8**	**4.6**	**5.8**	**5.4**	**6.9**	**6**	0.03
RCRA Metals																										
Arsenic	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4.9J	8.7J	BDL	BDL	4J	5.4BJ	4.5J	**14B**	BDL	10
Barium	BDL	BDL	108	97	100	110	110	110	120	120	110	120	120	130	130	120	120	120	140	120	120	120	140	120	140	700
Cadmium	**9**	**7**	**10**	**14**	**17**	**13**	**33**	**30**	**40**	**30**	**30**	**29**	**110**	**51**	**98**	**23**	**47**	**8.8**	**28**	**16**	**14**	**14**	**21**	**15**	**20**	2
Chromium	BDL	BDL	7	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.9J	2.3J	BDL	BDL	2.4J	4.1J	BDL	BDL	BDL	BDL	BDL	2.5J	10
Lead	**22**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3	BDL	4.8	3.6B	4.7	9.7BJ	3.7J	BDL	BDL	4.7J	BDL	3.6J	3.5J	15
Mercury	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.076J	BDL	BDL	10
Selenium	BDL	BDL	10	8	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5.1	BDL	2.9J	BDL	BDL	BDL	8.3J	3.3J	2.6BJ	BDL	3.9J	3.4BJ	14	BDL	20
Silver	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.9J	0.76J	2.4J	2.3J	BDL	1.9J	BDL	BDL	BDL	BDL	2.3J	2.3J	20

Notes:

Groundwater samples collected on above listed dates and analyzed for Appendix I VOC's and RCRA metals.
BDL = below detection limit
NCGPS = North Carolina Groundwater Quality Standard
VOC's = volatile organic compounds
bold and shade denotes above NCGPS
data presented in micrograms per liter (ug/l)
B = detected in method blank
J = estimated result <PQL and >=MDL

MW-5
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
GASTON COUNTY - CLOSED BIGGERSTAFF LANDFILL
GASTON COUNTY, NORTH CAROLINA

Date	*4/97*	*9/97*	*4/98*	*9/98*	*4/99*	*9/99*	*5/00*	*9/00*	*5/01*	*12/01*	*8/02*	*12/02*	*5/03*	*11/03*	*5/04*	*11/04*	*4/05*	*11/05*	*5/06*	*11/06*	*6/07*	*11/07*	*6/08*	*11/08*	*6/09*	*11/09*	*4/10*	*11/10*	*5/11*	*12/11*	*5/12*	*12/12*	*NCGPS*
Appendix I VOC's																																	
Acetone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	110	BDL	NT	BDL	BDL	120	BDL	BDL	28	240	BDL	25	BDL	35	12BJ	210	110	200	9.1J	360	15J	140	25	46	NT	6,000
Benzene	**5.9**	BDL	BDL	BDL	BDL	**7**	BDL	**5**	BDL	NT	**4.3**	BDL	**4.6**	**2.9**	**2.6**	**3.5**	**3.6**	**2.9**	**3.8**	**3.3**	BDL	**2.5**	**1.8**	**2.3**	**3.1**	BDL	**3.9**	**3.3**	**1.5**	**2.4**	**2.4**	NT	1
Bromoform	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.1	BDL	BDL	NT	4
2-Butanone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	13	BDL	BDL	BDL	BDL	NT	4,000
Carbon Disulfide	BDL	6.1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.4J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	700
Carbon Tetrachloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.15J	BDL	BDL	NT	0.3
Chlorobenzene	6.8	BDL	8.5	8.3	10	13	13	12	12	NT	13.2	15	21	21	18	25	24	19	34	24	37	18	11	15	19	22	42	30	10	16	16	NT	50
Chloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.76J	BDL	BDL	BDL	BDL	1.1J	0.64J	BDL	BDL	0.78J	NT	3,000
1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	1.2	1.6	BDL	BDL	1.2	1	BDL	1.3	1.1	8.7	0.88J	0.9J	1.2	1.4	BDL	2	1.3	0.86J	0.87J	0.88J	NT	20
1,4-Dichlorobenzene	**10**	**8.2**	**12**	**8.4**	**12**	**14**	**10**	BDL	**11**	NT	**9.3**	**11**	**11**	**7.5**	**6.1**	**7.4**	**6.5**	**6.1**	**7.2**	**6.5**	**7.9**	5.3	5	**6.3**	**6.7**	**7.5**	**10**	**7.4**	4.7	5.2	5.3	NT	6
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.14J	0.14J	0.15J	BDL	BDL	0.16J	BDL	0.16J	0.17J	BDL	NT	6
cis-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	9	BDL	6	BDL	NT	2.7	2.3	BDL	BDL	1.2	BDL	1.2	1	BDL	1.1	BDL	1.3	1.7	1.8	1.8	BDL	0.97J	1.2	0.92J	1.2	0.8J	NT	70
trans-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.1	BDL	BDL	NT	100
cis-1,3-Dichloropropene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.11J	BDL	BDL	NT	0.4
trans-1,3-Dichloropropene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.13J	BDL	BDL	NT	0.4
2-Hexanone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.9J	BDL	BDL	NT	280
4-Methyl-2-Pentanone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.77J	BDL	BDL	NT	560
Methylene Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.84BJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	5
Styrene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.12J	BDL	BDL	NT	70
Tetrachloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	BDL	BDL	BDL	BDL	**4**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.38J	BDL	BDL	NT	0.7
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	**940**	8.5	BDL	BDL	BDL	BDL	1.1	BDL	6	0.52J	0.34J	0.8J	28	63	23	BDL	0.74J	0.53J	4.9	NT	600
1,1,1-Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.34J	BDL	BDL	NT	200
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.18J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	3
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.33J	BDL	0.17J	BDL	BDL	0.22J	BDL	BDL	0.29J	BDL	NT	0.03
Xylenes	26	BDL	BDL	BDL	7	BDL	BDL	BDL	BDL	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.47J	BDL	BDL	BDL	0.36J	BDL	BDL	NT	500
RCRA Metals																																	
Arsenic	BDL	BDL	6	BDL	**15**	**14**	BDL	BDL	BDL	NT	NT	BDL	**25**	7.2	6.7	BDL	BDL	BDL	BDL	6.5	BDL	BDL	5.5	NT	**15**	6.1J	5.1J	5.4J	8.8BJ	6.5J	**14B**	NT	10
Barium	**730**	**1,500**	**1,300**	**1,600**	**720**	**1,500**	BDL	BDL	BDL	NT	NT	250	370	260	220	250	320	180	250	350	180	210	170	NT	260	220	260	160	140	130	160	NT	700
Cadmium	**7**	**22**	**18**	**24**	**12**	**15**	2	**7**	BDL	NT	NT	**2.1**	**3.8**	1.8	**2.6**	**6.6**	**2.4**	1.5	**2.4**	**7.5**	1.5J	**3.5**	**2.2**	NT	**6.1**	**3**	0.95J	**2.2**	1.4	1.6J	1.5J	NT	2
Chromium	BDL	**18**	**25**	**22**	BDL	BDL	BDL	BDL	BDL	NT	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	3.5J	BDL	BDL	BDL	BDL	NT	10
Lead	**43**	**130**	**120**	**140**	**85**	**86**	BDL	**29**	BDL	NT	NT	14	**47**	**23**	12	9.8	13	3.6	BDL	**22**	2.3J	BDL	6.1B	NT	7.7BJ	4J	BDL	BDL	5.1J	BDL	2.3J	NT	15
Mercury	**2.4**	0.3	**2.2**	**4.9**	BDL	0.4	0.2	0.6	BDL	NT	NT	BDL	0.5	BDL	0.36	BDL	BDL	BDL	0.13	0.31	0.1	0.23	0.13	NT	**1.2**	0.59	0.24	0.18	0.20	0.35	0.38	NT	1
Selenium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	NT	BDL	5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4.9	NT	3.4J	4.7J	2.7BJ	BDL	11	BDL	BDL	NT	20
Silver	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.2J	BDL	BDL	NT	0.66J	BDL	BDL	BDL	2.3J	BDL	BDL	NT	20

Notes:
Groundwater samples collected on above listed dates and analyzed for Appendix I VOC's and RCRA metals.
BDL = below detection limit
NCGPS = North Carolina Groundwater Protection Standard
VOC's = volatile organic compounds
NT = not tested, due to dry or limited water conditions
bold and shade denotes above NCGPS
data presented in micrograms per liter (ug/l)
J = estimated result <PQL and >=MDL