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

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

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

Instructions:

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

Solid Waste Monitoring Data Submittal Information

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

Buxton Environmental, Inc.

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

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

E-mail: buxtonenv@bellsouth.net

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Gaston County Closed Auten Landfill	Monteray Park Drive Gaston County, NC		.0500	December 4, 2013

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

Signature — Date: 7-19-14

Affix NC Licensed/ Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 1266 GEOLOGIST CHARLES ROSS KLINGMAN

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

Facility Representative Address

C-278

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

Revised 6/2009

SECOND SEMI-ANNUAL 2013
GROUNDWATER AND SURFACE WATER MONITORING EVENT
GASTON COUNTY - CLOSED AUTEN LANDFILL
GASTON COUNTY, NORTH CAROLINA

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SECOND SEMI-ANNUAL 2013
GROUNDWATER AND SURFACE WATER MONITORING EVENT
GASTON COUNTY - CLOSED AUTEN LANDFILL
GASTON COUNTY, NORTH CAROLINA

1.0 INTRODUCTION

Buxton Environmental, Inc. respectfully submits the methods and results of the second semi-annual 2013 groundwater and surface water monitoring activities conducted at the Gaston County - Closed Auten 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 operated from approximately 1963 until it closed in 1985.

To comply with NCDWM guidelines, semi-annual groundwater monitoring was initiated in April 1997 at five shallow monitor wells MW-1 through MW-5. Groundwater samples have been analyzed for Appendix I volatile organic compounds (VOC's) and RCRA metals. Groundwater samples historically collected at the site indicated several VOC's and metals above the 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 Auten Closed Landfill* report prepared by Resolve Environmental Services, P.A., one deep monitor well MW-5A and one background monitor well MW-6 were installed. Monitor well MW-5A was advanced adjacent to monitor well MW-5 to define the vertical extent of affected groundwater. Monitor well MW-6 was installed as a background well and was placed immediately adjacent to the former on-site landfill scale and maintenance garage along Monterey Park Drive. Groundwater samples collected at MW-5A did not indicate target constituents above the NCGPS's. Monitor well MW-6 indicated the presence of 180 micrograms per liter (ug/l) arsenic, 4,600 ug/l barium, 16 ug/l cadmium, 340 ug/l chromium, 240 ug/l lead, and 18 ug/l tetrachloroethene, which were above the NCGPS's. One water supply well was identified approximately 700 feet upgradient of the former landfill.

In response to the March 2001 report, the NCDWM requested in a November 8, 2001 letter that additional assessment activities be conducted in the area of monitor well MW-6 to determine the source and extent of affected groundwater.

Based on historical assessment activities, monitor well MW-6 is located hydrogeologically upgradient of the known on-site waste boundary and is immediately downgradient of a former off-site "stump dump". The "stump dump" was not owned or operated by Gaston County. Buxton Environmental, Inc. submitted a *Work Plan to Assess Affected Groundwater Detected at Monitor Well MW-6* to the NCDWM on February 8, 2002. The NCDWM approved the plan, with minor revisions outlined in their February 27, 2002 letter.

From May 12 through 14, 2003, three shallow temporary monitor wells TW-1, TW-2 and TW-3 were installed along the property boundary immediately upgradient of monitor well MW-6 and downgradient of the off-site "stump-dump. The findings of this assessment are presented in a June 24, 2003 *Groundwater Delineation and First Semi-Annual 2003 Groundwater and Surface Water Monitoring Event* report prepared by Buxton Environmental, Inc. Groundwater sample TW-2 indicated the presence of tetrachloroethene, and groundwater sample TW-3 indicated tetrachloroethene and trichloroethene above the NCGPS's. Groundwater sample TW-1 did not indicate the presence of target constituents above the NCGPS's. Based on groundwater analytical data and shallow groundwater flow direction, the former off-site "stump dump" area located upgradient and the immediate south of the site appears to be a potential source for VOC

affected groundwater historically detected at monitor well MW-6. Several discarded drums and car part debris associated with the "stump dump" were also identified immediately upgradient of temporary monitor wells TW-2 and TW-3 during the May 16, 2004 sampling event.

3.0 GROUNDWATER AND SURFACE WATER MONITORING ACTIVITIES

On December 4, 2013, Buxton Environmental, Inc. conducted the second semi-annual 2013 groundwater and surface water monitoring event at the subject site. Groundwater monitoring activities were conducted at six shallow monitor wells MW-1, MW-2, MW-3, MW-4, MW-5 and MW-6, one deep monitor well MW-5A, and two temporary wells TW-2 and TW-3. Temporary well TW-1 was dry and was unable to be sampled. Surface water samples, Upstream and Downstream, were also collected during these activities.

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 a calibrated EXTECH Instruments ExStik meter. 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. For quality control purposes, one trip blank prepared by the laboratory was analyzed for Appendix I VOC's. 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 latch on the stand-up cover at monitor well MW-1 has been vandalized and needs to be repaired. The stand-up cover at MW-5 is leaning at an approximate 80 degree angle (appears to have been recently hit by an off-road vehicle) and needs to be repaired. The remaining 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 during the second semi-annual 2013 monitoring event, the general shallow groundwater flow on the western side of the site is to the north northwest toward Long Creek and is to the east and northeast toward Long Creek and Burton Branch Creek on the eastern side of the site. Shallow groundwater flows to the north northwest and east from the former off-site "stump dump" area toward the Auten Landfill. A shallow groundwater flow direction map is provided in Figure 3.

A horizontal hydraulic gradient of 0.02 feet per feet (ft/ft) was observed between shallow monitor wells TW-3 and MW-2. An upward vertical hydraulic gradient of 0.01 ft/ft was observed between nested monitor wells MW-5 and MW-5A. Upward vertical hydraulic gradients are generally associated with groundwater discharge zones.

5.0 GROUNDWATER AND SURFACE WATER ANALYTICAL RESULTS

The groundwater and surface water analytical results for the second semi-annual 2013 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-3, MW-5, MW-6, and temporary monitor well TW-3 indicated the presence of target constituents above the NCGPS's, which are summarized below. Groundwater sample MW-2 indicated the presence of 2.5 ug/l benzene, 15 ug/l 1,4-dichlorobenzene, 1.3 ug/l vinyl chloride and 18 ug/l arsenic. Groundwater sample MW-3 indicated the presence of 1.3 ug/l benzene and 16 ug/l arsenic. Groundwater sample MW-5 indicated the presence of 2.4 ug/l benzene and 12 ug/l 1,4-dichlorobenzene. Groundwater sample MW-6 indicated the presence of 2.7 ug/l tetrachloroethene. Groundwater sample TW-3 indicated the presence of 2.5 ug/l tetrachloroethene, 4.5 ug/l cadmium, 26 ug/l chromium and 21 ug/l lead. 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 target constituents above established North Carolina Surface Water and Wetland Standards (15A NCAC 02B) for Long Creek or Burton Branch Creek (Class C waters) or EPA National Criteria standards (utilized by North Carolina Division of Water Quality as default standards for non listed parameters) (NCSWWS's). J-flagged analytical results were not considered, since the results are estimated.

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

6.0 CONCLUSIONS

On December 4, 2013, Buxton Environmental, Inc. conducted the second semi-annual 2013 groundwater and surface water monitoring activities at the Closed Auten Landfill located in Gaston County, North Carolina. A summary of the findings of this investigation is provided below.

- The general shallow groundwater flow direction on the western side of the site is to the north northwest toward Long Creek and is to the east and northeast toward Long Creek and Burton Branch Creek on the eastern side of the site. Shallow groundwater flows to the north northwest and east from the former off-site "stump dump" area toward the Auten Landfill.

- Groundwater samples collected at monitor wells MW-2, MW-3, MW-5 and MW-6, and temporary monitor well TW-3 indicated the presence of target constituents above the NCGPS's.

- Surface water samples Upstream and Downstream did not indicate the presence of target constituents above the NCSWWS.

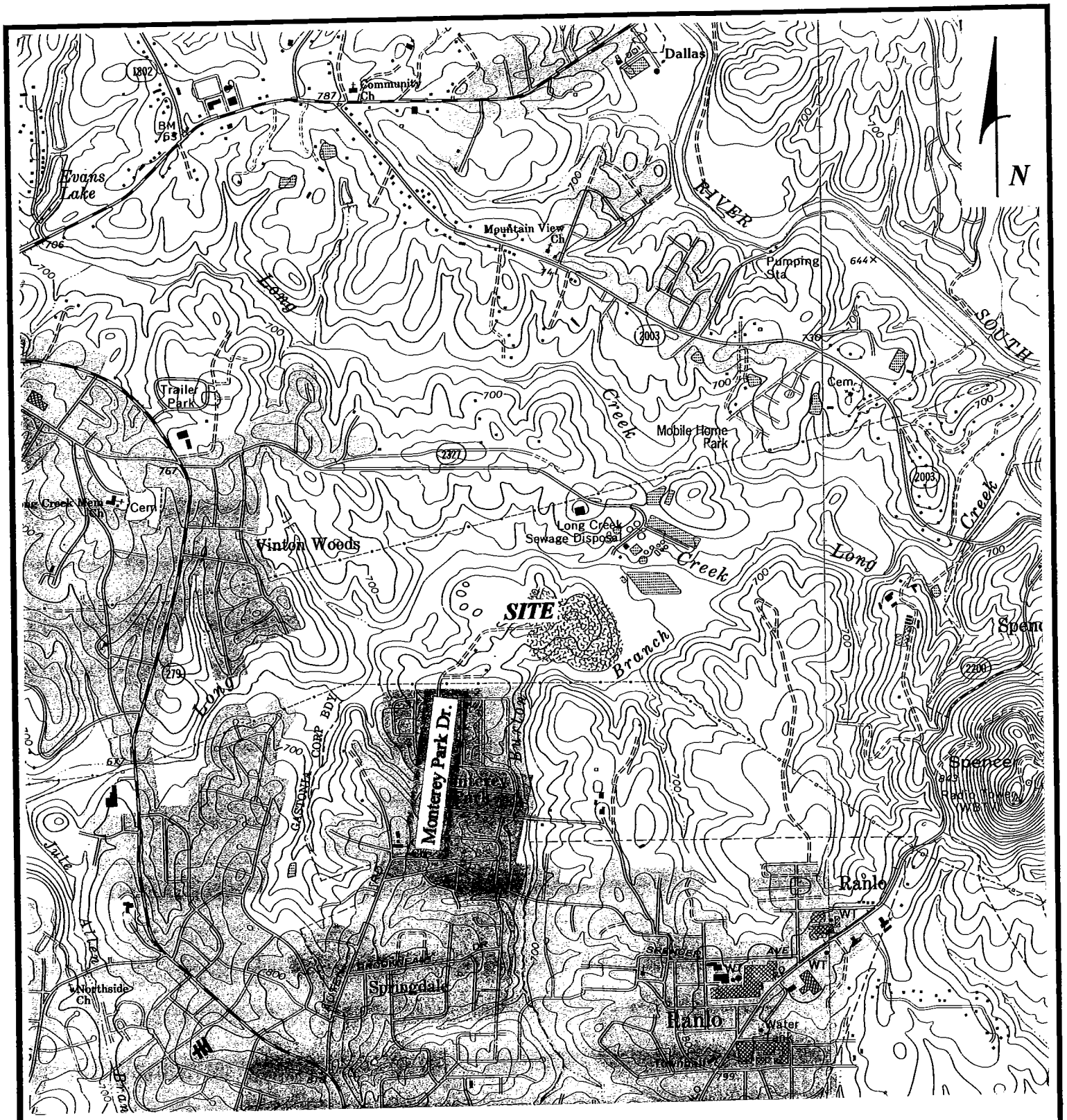
7.0 RECOMMENDATIONS

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 Auten Landfill. The next sampling event is anticipated to be conducted in May 2014.

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

FIGURES

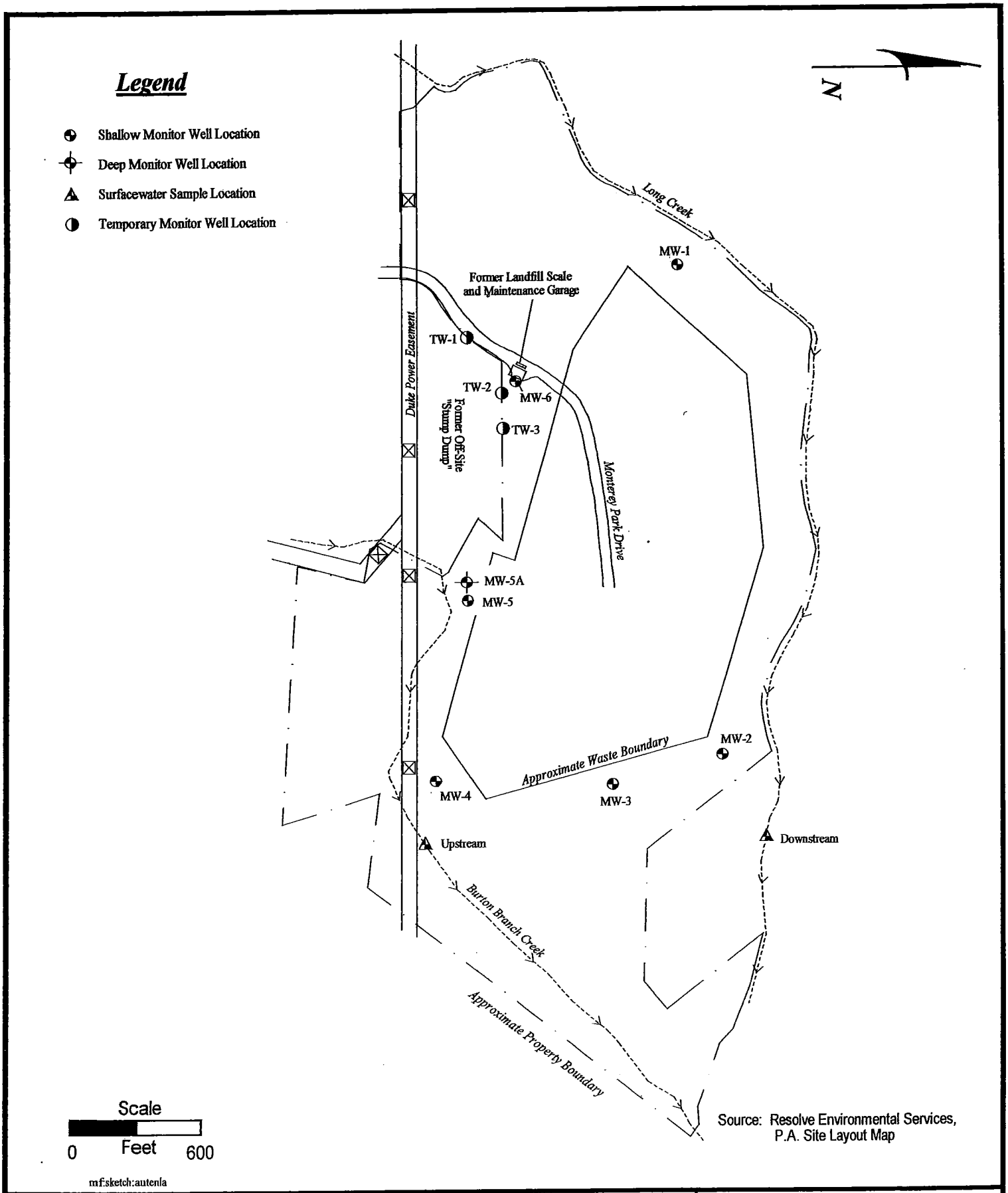


Scale

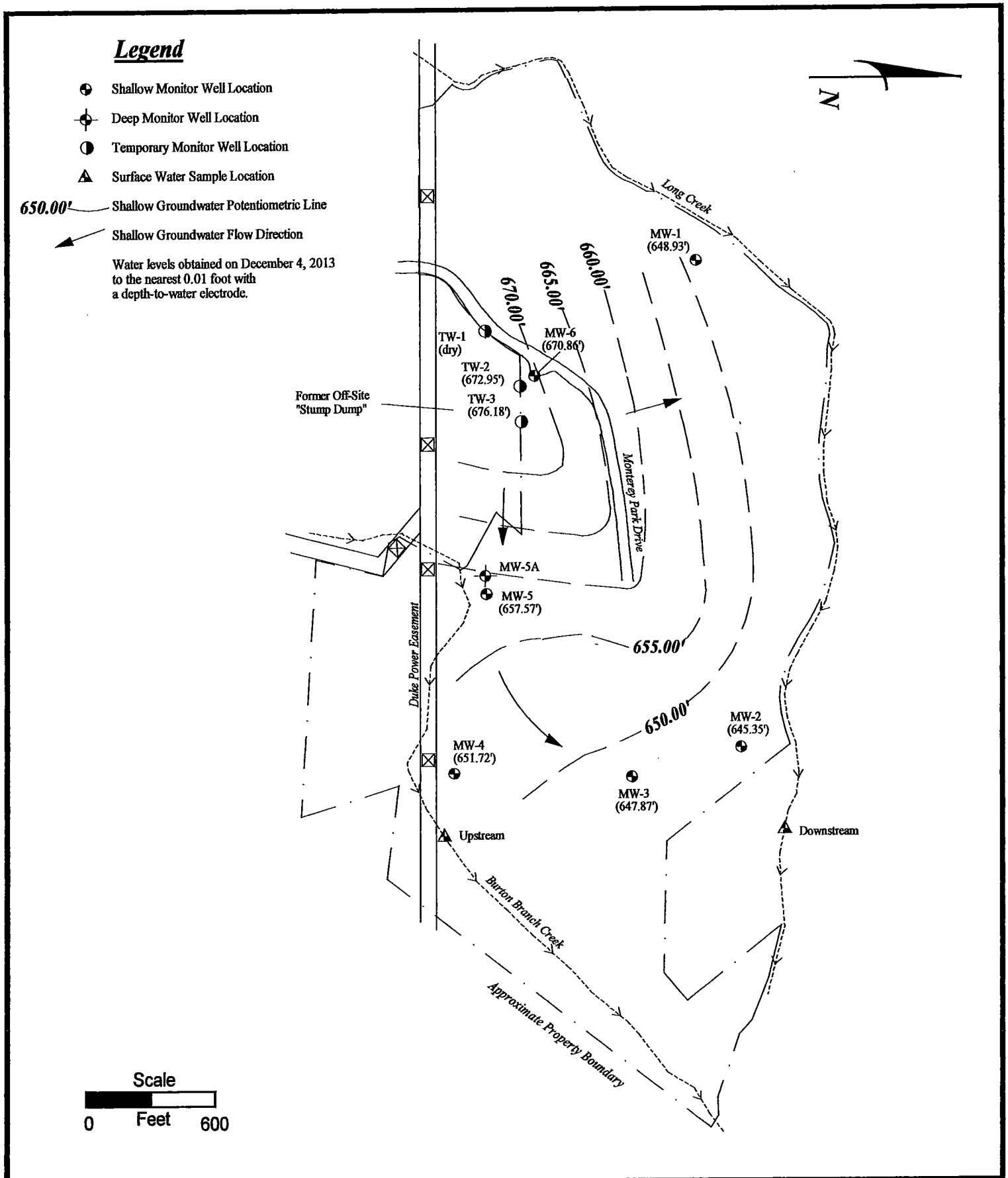
0 Feet 2,000

Source: United States Geological Survey, 1993 Gastonia North, 1993 Mount Holly, North Carolina Quadrangles

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



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



Gaston County Closed Auten Landfill Gaston County, North Carolina	Buxton Environmental, Inc.	Figure 3. Shallow Groundwater Flow Second Semi-Annual 2013

Legend

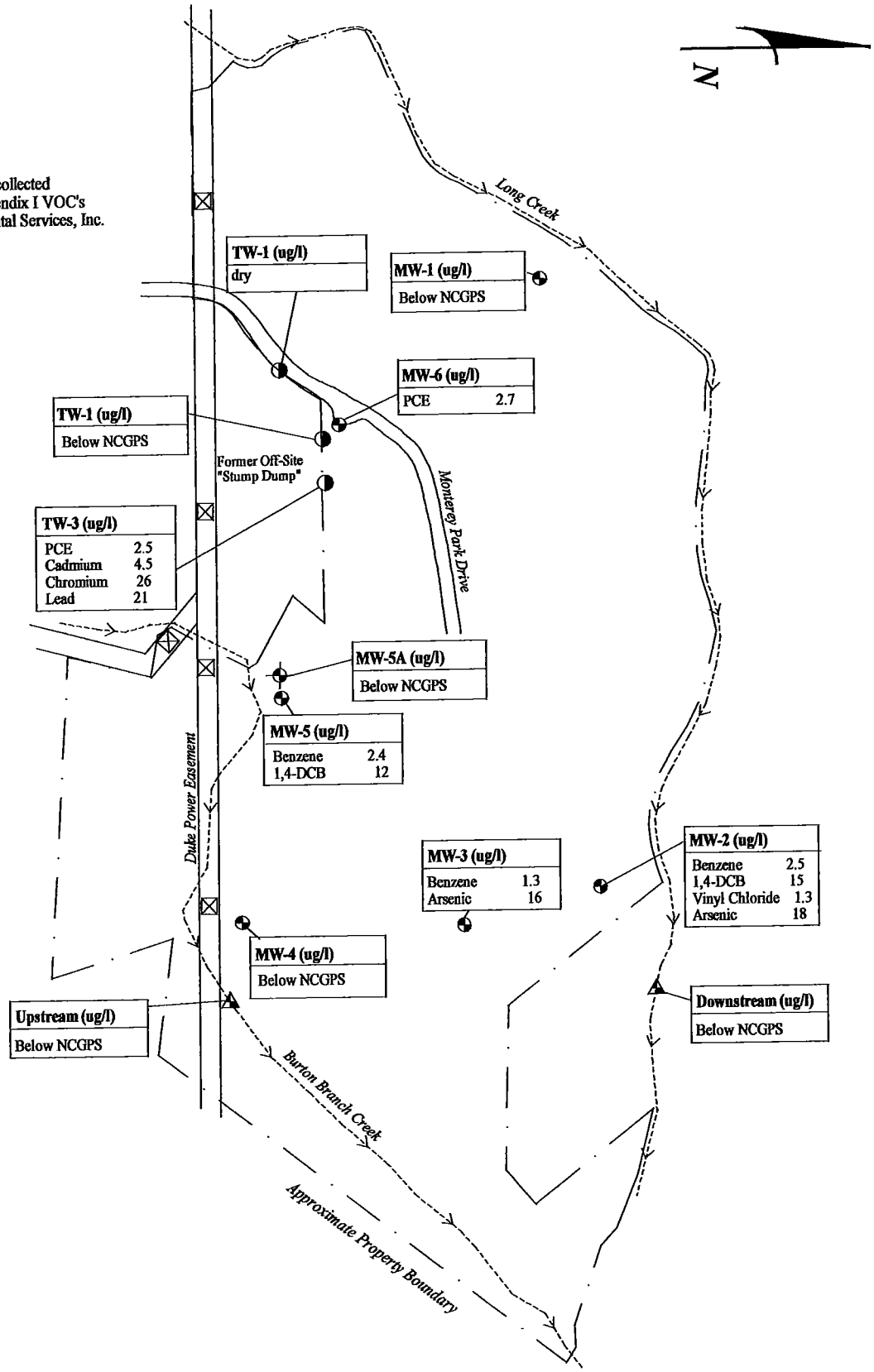
- Shallow Monitor Well Location
- Deep Monitor Well Location
- Temporary Well Location
- Surfacewater Sample Location

Groundwater and surface water samples collected December 4, 2013 and analyzed for Appendix I VOC's and RCRA Metals by Shealy Environmental Services, Inc.

DCB = Dichlorobenzene
PCE = Tetrachloroethene

ug/l = microgram per liter
J = estimated result <PQL and >=MDL
B = detected in method blank

Only constituents detected above North Carolina Groundwater Protection Standards (NCGPS's) and North Carolina Surface Water & Wetland Standards (NCSWWS) are presented.



Scale
0 Feet 600

rlcsketch:augw1213

Gaston County Closed Auten Landfill Gaston County, North Carolina	Buxton Environmental, Inc.	Figure 4. Groundwater Analytical Results Second Semi-Annual 2013

TABLES

TABLE 1
GROUNDWATER GAUGING DATA
GASTON COUNTY - CLOSED AUTEN LANDFILL
GASTON COUNTY, NORTH CAROLINA
DECEMBER 4, 2013

Well ID	*TD BTOC (ft)*	*TOC Elevation (ft)*	*DTW BTOC (ft)*	*DTW Elevation (ft)*
MW-1	17.50	657.71	8.78	648.93
MW-2	27.80	660.80	15.45	645.35
MW-3	29.50	668.87	21.00	647.87
MW-4	23.50	662.15	10.43	651.72
MW-5	21.50	667.67	10.10	657.57
MW-5A	54.00	668.32	10.40	657.92
MW-6	46.00	700.54	29.68	670.86
TW-1	37.50	708.75	dry	dry
TW-2	40.25	709.58	36.63	672.95
TW-3	45.50	715.82	39.64	676.18

Notes:
Depth to water measurements collected on December 4, 2013 to nearest 0.01 foot 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 and MW-4 are relative to mean sea level and were surveyed by Robinson & Sawyer, Inc. on August 24, 1994.
TOC elevations at MW-5A and MW-6 were determined by Resolve Environmental Services on May 3, 2001 relative to existing well elevations.
TOC elevations at TW-2 and TW-3 were determined by Buxton Environmental, Inc. on May 14, 2003 relative to TOC at MW-6.
TOC elevations at MW-5 and TW-1 were determined by Buxton Environmental, Inc. on December 4, 2003 following repairs to these wells.

TABLE 2
FIELD PARAMETER DATA
GASTON COUNTY - CLOSED AUTEN LANDFILL
GASTON COUNTY, NORTH CAROLINA
DECEMBER 4, 2013

Sample ID	*Field Parameters*		
	pH (standard units)	*K (uS)*	*T (fahrenheit)*
MW-1	6.10	515	61.3
MW-2	6.57	1,781	61.9
MW-3	6.65	1,032	61.7
MW-4	6.35	669	63.9
MW-5	6.42	715	62.1
MW-5A	6.12	327	59.9
MW-6	5.95	159	61.0
TW-1	dry	dry	dry
TW-2	7.24	180	62.2
TW-3	5.80	203	61.5
Upstream	6.75	95	55.4
Downstream	7.10	202	55.9

Notes:
Field parameters collected on December 4, 2013 with calibrated EXTECH Instruments ExStik meter
uS = microsiemens
K = conductivity; T = temperature

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
GASTON COUNTY - CLOSED AUTEN LANDFILL
GASTON COUNTY, NORTH CAROLINA
DECEMBER 4, 2013

Sample ID	*MW-1*	*MW-2*	*MW-3*	*MW-4*	*MW-5*	*MW-5A*	*MW-6*	*TW-1*	*TW-2*	*TW-3*	*NCGPS*
Appendix I VOC's											
Benzene	BDL			0.23J		BDL	BDL	NT	BDL	BDL	1
Chlorobenzene	11	6.3	0.87J	0.64J	12	BDL	BDL	NT	BDL	BDL	50
Chloroethane	BDL	0.53J	BDL	BDL	0.77J	BDL	BDL	NT	BDL	BDL	3,000
Chloroform	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	0.58J	BDL	70
1,2-Dichlorobenzene	BDL	0.87J	BDL	BDL	2.4	BDL	BDL	NT	BDL	BDL	20
1,4-Dichlorobenzene	1.9		0.37J	0.51J		BDL	BDL	NT	BDL	BDL	6
1,1-Dichloroethane	BDL	0.34J	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	6
cis-1,2-Dichloroethene	BDL	6.3	0.16J	BDL	0.76J	BDL	0.73J	NT	BDL	BDL	70
1,2-Dichloropropane	BDL	0.53J	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	0.6
Tetrachloroethene	BDL	BDL	BDL	BDL	BDL	BDL		NT	0.53J		0.7
Toluene	BDL	BDL	BDL	BDL	0.36J	BDL	BDL	NT	BDL	BDL	600
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	0.32J	NT	BDL	BDL	3
Vinyl Chloride	BDL		BDL	BDL	0.69J	BDL	BDL	NT	BDL	BDL	0.03
RCRA Metals											
Arsenic	4.7J			BDL	8J	5.6J	BDL	NT	BDL	6J	10
Barium	210	380	56	84	160	93	53	NT	110	430	700
Cadmium	BDL	BDL	BDL	0.81J	BDL	BDL	BDL	NT	BDL		2
Chromium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	4.8J		10
Lead	BDL	BDL	BDL	BDL	BDL	BDL	9.6J	NT	8.5J		15
Mercury	0.016J	0.043J	0.02J	0.018J	BDL	0.058J	BDL	NT	BDL	BDL	1
Silver	BDL	BDL	BDL	BDL	0.81J	BDL	0.47J	NT	0.48J	BDL	20

Notes:
Groundwater samples collected on December 4, 2013 and analyzed for above parameters 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)
B = detected in method blank
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 (dry)

TABLE 4
SURFACE WATER ANALYTICAL RESULTS
GASTON COUNTY - CLOSED AUTEN LANDFILL
GASTON COUNTY, NORTH CAROLINA
DECEMBER 4, 2013

Sample ID	***Upstream***	***Downstream***	***NCSWWS***
Appendix I VOC's	BDL	BDL	NA
RCRA Metals			
Arsenic	4.3J	6J	50
Barium	54	23J	1,000
Chromium	49	4.3J	50
Mercury	0.025J	BDL	0.012
Silver	BDL	0.44J	6

Notes:
Surface water samples collected December 4, 2013 and analyzed for above parameters 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 and Burton Branch Creek (Class C Water) or are EPA National Criteria.
VOC's = volatile organic compounds
data presented in micrograms per liter (ug/l)
J = estimated result <PQL and >=MDL
B = detected in method blank
NA = not applicable
bold and shade denotes above established NCSWWS (J-flagged data not considered since estimated)

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: **Gaston Co Auten Landfill**

Lot Number: **OL06077**
Date Completed: **12/13/2013**

N. Saikaly

Nisreen Saikaly
Project Manager

ACCREDITED IN ACCORDANCE WITH

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: OL06077

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

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

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

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

Sample Summary
Buxton Environmental
Lot Number: OL06077

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	MW-1	Aqueous	12/04/2013 1300	12/06/2013
002	MW-2	Aqueous	12/04/2013 1400	12/06/2013
003	MW-3	Aqueous	12/04/2013 1430	12/06/2013
004	MW-4	Aqueous	12/04/2013 1500	12/06/2013
005	MW-5	Aqueous	12/04/2013 1530	12/06/2013
006	MW-5A	Aqueous	12/04/2013 1600	12/06/2013
007	MW-6	Aqueous	12/04/2013 1230	12/06/2013
008	TW-2	Aqueous	12/04/2013 1130	12/06/2013
009	TW-3	Aqueous	12/04/2013 1200	12/06/2013
010	UPSTREAM	Aqueous	12/04/2013 1330	12/06/2013
011	DOWNSTREAM	Aqueous	12/04/2013 1630	12/06/2013
012	TRIP BLANK	Aqueous	12/04/2013	12/06/2013

(12 samples)

Executive Summary
Buxton Environmental
Lot Number: OL06077

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	MW-1	Aqueous	Chlorobenzene	8260B	11		ug/L	6
001	MW-1	Aqueous	1,4-Dichlorobenzene	8260B	1.9		ug/L	6
001	MW-1	Aqueous	Arsenic	6010C	0.0047	J	mg/L	8
001	MW-1	Aqueous	Barium	6010C	0.21		mg/L	8
001	MW-1	Aqueous	Mercury	7470A	0.000016	J	mg/L	8
002	MW-2	Aqueous	Benzene	8260B	2.5		ug/L	9
002	MW-2	Aqueous	Chlorobenzene	8260B	6.3		ug/L	9
002	MW-2	Aqueous	Chloroethane	8260B	0.53	J	ug/L	9
002	MW-2	Aqueous	1,2-Dichlorobenzene	8260B	0.87	J	ug/L	9
002	MW-2	Aqueous	1,4-Dichlorobenzene	8260B	15		ug/L	9
002	MW-2	Aqueous	1,1-Dichloroethane	8260B	0.34	J	ug/L	9
002	MW-2	Aqueous	cis-1,2-Dichloroethene	8260B	6.3		ug/L	9
002	MW-2	Aqueous	1,2-Dichloropropane	8260B	0.53	J	ug/L	9
002	MW-2	Aqueous	Vinyl chloride	8260B	1.3		ug/L	10
002	MW-2	Aqueous	Arsenic	6010C	0.018		mg/L	11
002	MW-2	Aqueous	Barium	6010C	0.38		mg/L	11
002	MW-2	Aqueous	Mercury	7470A	0.000043	J	mg/L	11
003	MW-3	Aqueous	Benzene	8260B	1.3		ug/L	12
003	MW-3	Aqueous	Chlorobenzene	8260B	0.87	J	ug/L	12
003	MW-3	Aqueous	1,4-Dichlorobenzene	8260B	0.37	J	ug/L	12
003	MW-3	Aqueous	cis-1,2-Dichloroethene	8260B	0.16	J	ug/L	12
003	MW-3	Aqueous	Arsenic	6010C	0.016		mg/L	14
003	MW-3	Aqueous	Barium	6010C	0.056		mg/L	14
003	MW-3	Aqueous	Mercury	7470A	0.000020	J	mg/L	14
004	MW-4	Aqueous	Benzene	8260B	0.23	J	ug/L	15
004	MW-4	Aqueous	Chlorobenzene	8260B	0.64	J	ug/L	15
004	MW-4	Aqueous	1,4-Dichlorobenzene	8260B	0.51	J	ug/L	15
004	MW-4	Aqueous	Barium	6010C	0.084		mg/L	17
004	MW-4	Aqueous	Cadmium	6010C	0.00081	J	mg/L	17
004	MW-4	Aqueous	Mercury	7470A	0.000018	J	mg/L	17
005	MW-5	Aqueous	Benzene	8260B	2.4		ug/L	18
005	MW-5	Aqueous	Chlorobenzene	8260B	12		ug/L	18
005	MW-5	Aqueous	Chloroethane	8260B	0.77	J	ug/L	18
005	MW-5	Aqueous	1,2-Dichlorobenzene	8260B	2.4		ug/L	18
005	MW-5	Aqueous	1,4-Dichlorobenzene	8260B	12		ug/L	18
005	MW-5	Aqueous	cis-1,2-Dichloroethene	8260B	0.76	J	ug/L	18
005	MW-5	Aqueous	Toluene	8260B	0.36	J	ug/L	18
005	MW-5	Aqueous	Vinyl chloride	8260B	0.69	J	ug/L	19
005	MW-5	Aqueous	Arsenic	6010C	0.0080	J	mg/L	20
005	MW-5	Aqueous	Barium	6010C	0.16		mg/L	20
005	MW-5	Aqueous	Silver	6010C	0.00081	J	mg/L	20
006	MW-5A	Aqueous	Arsenic	6010C	0.0056	J	mg/L	23
006	MW-5A	Aqueous	Barium	6010C	0.093		mg/L	23
006	MW-5A	Aqueous	Mercury	7470A	0.000058	J	mg/L	23
007	MW-6	Aqueous	cis-1,2-Dichloroethene	8260B	0.73	J	ug/L	24

Executive Summary (Continued)

Lot Number: OL06077

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
007	MW-6	Aqueous	Tetrachloroethene	8260B	2.7		ug/L	24
007	MW-6	Aqueous	Trichloroethene	8260B	0.32	J	ug/L	24
007	MW-6	Aqueous	Barium	6010C	0.053		mg/L	26
007	MW-6	Aqueous	Lead	6010C	0.0096	J	mg/L	26
007	MW-6	Aqueous	Silver	6010C	0.00047	J	mg/L	26
008	TW-2	Aqueous	Chloroform	8260B	0.58	J	ug/L	27
008	TW-2	Aqueous	Tetrachloroethene	8260B	0.53	J	ug/L	27
008	TW-2	Aqueous	Barium	6010C	0.11		mg/L	29
008	TW-2	Aqueous	Chromium	6010C	0.0048	J	mg/L	29
008	TW-2	Aqueous	Lead	6010C	0.0085	J	mg/L	29
008	TW-2	Aqueous	Silver	6010C	0.00048	J	mg/L	29
009	TW-3	Aqueous	Tetrachloroethene	8260B	2.5		ug/L	30
009	TW-3	Aqueous	Arsenic	6010C	0.0060	J	mg/L	32
009	TW-3	Aqueous	Barium	6010C	0.43		mg/L	32
009	TW-3	Aqueous	Cadmium	6010C	0.0045		mg/L	32
009	TW-3	Aqueous	Chromium	6010C	0.026		mg/L	32
009	TW-3	Aqueous	Lead	6010C	0.021		mg/L	32
010	UPSTREAM	Aqueous	Arsenic	6010C	0.0060	J	mg/L	35
010	UPSTREAM	Aqueous	Barium	6010C	0.023	J	mg/L	35
010	UPSTREAM	Aqueous	Chromium	6010C	0.0043	J	mg/L	35
010	UPSTREAM	Aqueous	Silver	6010C	0.00044	J	mg/L	35
011	DOWNSTREAM	Aqueous	1,2,3-Trichloropropane	8260B	1.5		ug/L	36
011	DOWNSTREAM	Aqueous	Arsenic	6010C	0.0043	J	mg/L	38
011	DOWNSTREAM	Aqueous	Barium	6010C	0.054		mg/L	38
011	DOWNSTREAM	Aqueous	Chromium	6010C	0.049		mg/L	38
011	DOWNSTREAM	Aqueous	Mercury	7470A	0.000025	J	mg/L	38

(71 detections)

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Description: **MW-1**
Date Sampled: **12/04/2013 1300**
Date Received: **12/06/2013**

Laboratory ID: **OL06077-001**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/11/2013 0510	PMM2		36104

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**	**11**		**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**	**1.9**		**1.0**	**0.33**	**ug/L**	**1**
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1

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

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Description: **MW-1**
Date Sampled: **12/04/2013 1300**
Date Received: **12/06/2013**

Laboratory ID: **OL06077-001**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/11/2013 0510	PMM2		36104

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

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		103	70-130
Bromofluorobenzene		91	70-130
Toluene-d8		102	70-130

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

RCRA Metals

Client: **Buxton Environmental**
Description: **MW-1**
Date Sampled: **12/04/2013 1300**
Date Received: **12/06/2013**

Laboratory ID: **OL06077-001**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/10/2013 1608	COH	12/10/2013 1151	36034
1	3005A	6010C	1	12/10/2013 0033	CDF	12/09/2013 0956	35952

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	**7440-38-2**	**6010C**	**0.0047**	**J**	**0.010**	**0.0040**	**mg/L**	**1**
Barium	**7440-39-3**	**6010C**	**0.21**		**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**	**0.000016**	**J**	**0.00010**	**0.000015**	**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

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Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Description: **MW-2**
Date Sampled: **12/04/2013 1400**
Date Received: **12/06/2013**

Laboratory ID: **OL06077-002**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/11/2013 0533	PMM2		36104

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**	**2.5**		**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**	**6.3**		**1.0**	**0.33**	**ug/L**	**1**
Chloroethane	**75-00-3**	**8260B**	**0.53**	**J**	**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**	**0.87**	**J**	**1.0**	**0.33**	**ug/L**	**1**
1,4-Dichlorobenzene	**106-46-7**	**8260B**	**15**		**1.0**	**0.33**	**ug/L**	**1**
1,1-Dichloroethane	**75-34-3**	**8260B**	**0.34**	**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**	**6.3**		**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**	**0.53**	**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	ND		1.0	0.18	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1

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

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Description: **MW-2**
Date Sampled: **12/04/2013 1400**
Date Received: **12/06/2013**

Laboratory ID: **OL06077-002**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/11/2013 0533	PMM2		36104

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**	**1.3**		**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		92	70-130
Bromofluorobenzene		96	70-130
Toluene-d8		104	70-130

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

RCRA Metals

Client: **Buxton Environmental**
Description: **MW-2**
Date Sampled: **12/04/2013 1400**
Date Received: **12/06/2013**

Laboratory ID: **OL06077-002**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/10/2013 1611	COH	12/10/2013 1151	36034
1	3005A	6010C	1	12/10/2013 0037	CDF	12/09/2013 0956	35952

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	**7440-38-2**	**6010C**	**0.018**		**0.010**	**0.0040**	**mg/L**	**1**
Barium	**7440-39-3**	**6010C**	**0.38**		**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**	**0.000043**	**J**	**0.00010**	**0.000015**	**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
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
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Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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-3**
Date Sampled: **12/04/2013 1430**
Date Received: **12/06/2013**

Laboratory ID: **OL06077-003**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/11/2013 0556	PMM2		36104

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	1.2	ug/L	1
Benzene	**71-43-2**	**8260B**	**1.3**		**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**	**0.87**	**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**	**0.37**	**J**	**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**	**0.16**	**J**	**1.0**	**0.12**	**ug/L**	**1**
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1

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

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-3**
Date Sampled: **12/04/2013 1430**
Date Received: **12/06/2013**

Laboratory ID: **OL06077-003**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/11/2013 0556	PMM2		36104

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		97	70-130
Bromofluorobenzene		93	70-130
Toluene-d8		104	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%
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N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

RCRA Metals

Client: **Buxton Environmental**
Description: **MW-3**
Date Sampled: **12/04/2013 1430**
Date Received: **12/06/2013**

Laboratory ID: **OL06077-003**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/10/2013 1613	COH	12/10/2013 1151	36034
1	3005A	6010C	1	12/10/2013 0041	CDF	12/09/2013 0956	35952

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	**7440-38-2**	**6010C**	**0.016**		**0.010**	**0.0040**	**mg/L**	**1**
Barium	**7440-39-3**	**6010C**	**0.056**		**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**	**0.000020**	**J**	**0.00010**	**0.000015**	**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
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Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Description: **MW-4**
Date Sampled: **12/04/2013 1500**
Date Received: **12/06/2013**

Laboratory ID: **OL06077-004**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/11/2013 0619	PMM2		36104

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**	**0.23**	**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**	**0.64**	**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**	**0.51**	**J**	**1.0**	**0.33**	**ug/L**	**1**
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1

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

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Description: **MW-4**
Date Sampled: **12/04/2013 1500**
Date Received: **12/06/2013**

Laboratory ID: **OL06077-004**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/11/2013 0619	PMM2		36104

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		99	70-130
Bromofluorobenzene		91	70-130
Toluene-d8		105	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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P = The RPD between two GC columns exceeds 40%
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N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

RCRA Metals

Client: **Buxton Environmental**
Description: **MW-4**
Date Sampled: **12/04/2013 1500**
Date Received: **12/06/2013**

Laboratory ID: **OL06077-004**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/10/2013 1615	COH	12/10/2013 1151	36034
1	3005A	6010C	1	12/10/2013 0045	CDF	12/09/2013 0956	35952

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**	**0.084**		**0.025**	**0.0075**	**mg/L**	**1**
Cadmium	**7440-43-9**	**6010C**	**0.00081**	**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**	**0.000018**	**J**	**0.00010**	**0.000015**	**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
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Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Description: **MW-5**
Date Sampled: **12/04/2013 1530**
Date Received: **12/06/2013**

Laboratory ID: **OL06077-005**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/11/2013 0642	PMM2		36104

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**	**2.4**		**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**	**12**		**1.0**	**0.33**	**ug/L**	**1**
Chloroethane	**75-00-3**	**8260B**	**0.77**	**J**	**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**	**2.4**		**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	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**	**0.76**	**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**	**0.36**	**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	ND		1.0	0.18	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1

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

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Description: **MW-5**
Date Sampled: **12/04/2013 1530**
Date Received: **12/06/2013**

Laboratory ID: **OL06077-005**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/11/2013 0642	PMM2		36104

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**	**0.69**	**J**	**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		95	70-130
Bromofluorobenzene		93	70-130
Toluene-d8		101	70-130

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

RCRA Metals

Client: **Buxton Environmental**
Description: **MW-5**
Date Sampled: **12/04/2013 1530**
Date Received: **12/06/2013**

Laboratory ID: **OL06077-005**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/10/2013 1618	COH	12/10/2013 1151	36034
1	3005A	6010C	1	12/10/2013 0048	CDF	12/09/2013 0956	35952

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	**7440-38-2**	**6010C**	**0.0080**	**J**	**0.010**	**0.0040**	**mg/L**	**1**
Barium	**7440-39-3**	**6010C**	**0.16**		**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	0.000015	mg/L	1
Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Silver	**7440-22-4**	**6010C**	**0.00081**	**J**	**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
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Description: **MW-5A**
Date Sampled: **12/04/2013 1600**
Date Received: **12/06/2013**

Laboratory ID: **OL06077-006**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/11/2013 0705	PMM2		36104

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

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

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Description: **MW-5A**
Date Sampled: **12/04/2013 1600**
Date Received: **12/06/2013**

Laboratory ID: **OL06077-006**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/11/2013 0705	PMM2		36104

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		96	70-130
Bromofluorobenzene		91	70-130
Toluene-d8		101	70-130

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

RCRA Metals

Client: **Buxton Environmental**
Description: **MW-5A**
Date Sampled: **12/04/2013 1600**
Date Received: **12/06/2013**

Laboratory ID: **OL06077-006**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/10/2013 1632	COH	12/10/2013 1151	36034
1	3005A	6010C	1	12/10/2013 0059	CDF	12/09/2013 0956	35952

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	**7440-38-2**	**6010C**	**0.0056**	**J**	**0.010**	**0.0040**	**mg/L**	**1**
Barium	**7440-39-3**	**6010C**	**0.093**		**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**	**0.000058**	**J**	**0.00010**	**0.000015**	**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
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
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Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Description: **MW-6**
Date Sampled: **12/04/2013 1230**
Date Received: **12/06/2013**

Laboratory ID: **OL06077-007**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/11/2013 0728	PMM2		36104

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**	**0.73**	**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**	**2.7**		**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**	**0.32**	**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
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H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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: **TW-2**
Date Sampled: **12/04/2013 1130**
Date Received: **12/06/2013**

Laboratory ID: **OL06077-008**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/11/2013 0751	PMM2		36104

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**	**0.58**	**J**	**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**	**0.53**	**J**	**1.0**	**0.13**	**ug/L**	**1**
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1

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

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Description: **TW-2**
Date Sampled: **12/04/2013 1130**
Date Received: **12/06/2013**

Laboratory ID: **OL06077-008**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/11/2013 0751	PMM2		36104

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		96	70-130
Bromofluorobenzene		92	70-130
Toluene-d8		99	70-130

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

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Description: **TW-3**
Date Sampled: **12/04/2013 1200**
Date Received: **12/06/2013**

Laboratory ID: **OL06077-009**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/11/2013 0814	PMM2		36104

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**	**2.5**		**1.0**	**0.13**	**ug/L**	**1**
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1

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

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Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Description: **TW-3**
Date Sampled: **12/04/2013 1200**
Date Received: **12/06/2013**

Laboratory ID: **OL06077-009**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/11/2013 0814	PMM2		36104

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		98	70-130
Bromofluorobenzene		92	70-130
Toluene-d8		100	70-130

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

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Description: ~~**UPSTREAM**~~ Downstream
Date Sampled: **12/04/2013 1330**
Date Received: **12/06/2013**

Laboratory ID: **OL06077-010**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/11/2013 0836	PMM2		36104

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

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

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Description: ~~**UPSTREAM**~~ DOWNSTREAM
Date Sampled: **12/04/2013 1330**
Date Received: **12/06/2013**

Laboratory ID: **OL06077-010**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/11/2013 0836	PMM2		36104

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

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	70-130
Bromofluorobenzene		88	70-130
Toluene-d8		102	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
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Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Description: ~~**DOWNSTREAM**~~ UPSTREAM
Date Sampled: **12/04/2013 1630**
Date Received: **12/06/2013**

Laboratory ID: **OL06077-011**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/11/2013 2150	TAF		36196

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**	**1.5**		**1.0**	**0.33**	**ug/L**	**1**

PQL = Practical quantitation limit
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E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Description: ~~**DOWNSTREAM**~~ UPSTREAM
Date Sampled: **12/04/2013 1630**
Date Received: **12/06/2013**

Laboratory ID: **OL06077-011**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/11/2013 2150	TAF		36196

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		98	70-130
Bromofluorobenzene		96	70-130
Toluene-d8		101	70-130

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

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Description: **TRIP BLANK**
Date Sampled: **12/04/2013**
Date Received: **12/06/2013**

Laboratory ID: **OL06077-012**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/11/2013 1902	TAF		36196

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

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

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Description: **TRIP BLANK**
Date Sampled: **12/04/2013**
Date Received: **12/06/2013**

Laboratory ID: **OL06077-012**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/11/2013 1902	TAF		36196

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		101	70-130
Bromofluorobenzene		94	70-130
Toluene-d8		99	70-130

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

SHEALY ENVIRONMENTAL SERVICES, INC.

SHEALY

Chain of Custody Record

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

Number 25082

Client: Buxton 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. NaTmo 7. NaOH		Number of Containers / Bottle (See instructions on back) / Preservative
Project Name: Gaston Co - Auton Landfill			Lot No. 0L06077
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 IV VOCs	TCTA metals	Remarks / Cooler ID
MW-1	12-4-13	13:00	G	✓						X	X	
MW-2	"	14:00	G	✓						X	X	
MW-3	"	14:30	G	✓						X	X	
MW-4	"	15:00	G	✓						X	X	
MW-5	"	15:30	G	✓						X	X	
MW-5A	"	16:00	G	✓						X	X	
MW-6	"	12:30	G	✓						X	X	
TW-2	"	11:30	G	✓						X	X	
TW-3	"	12:00	G	✓						X	X	
UPSTREAM	"	13:30	G	✓						X	X	
DOWNSTREAM	"	16:30	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 [illegible] low detection + [illegible]

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

	Date	Time		Date	Time
1. Relinquished by / Sampler: [signature]	12-6-13	10:00	1. Received by: [signature]	12-6-13	1000
2. Relinquished by: [signature]	12-6-13	1500	2. Received by: [signature]	12.6.13	1500
3. Relinquished by: [signature]	12.6.13	1705	3. Received by		
4. Relinquished by			4. Laboratory Received by: [signature]	12-6-13	1705

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

LAB USE ONLY: Received on ☐ (Check) ☒ Yes ☐ No ☐ Ice Pack — Receipt Temp. 23 °C — Temp. Blank ☐ Y / ☐ N

SHEALY ENVIRONMENTAL SERVICES, INC.

Sample Receipt Checklist (SRC)

Client: Buxton Cooler Inspected by/date: CWP 12-6-13 Lot #: 0L06077

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/Original temperature upon receipt/Derived (corrected) temperature upon receipt:
12 6 12.3 °C / / °C / / °C / / °C

Method: ☐ Temperature Blank ☑ Against Bottles IR Gun ID: #3 IR Gun Correction Factor: -0.3°C

Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

If response is No (or Yes for 14, 15, 16), an explanation/resolution must be provided.

Yes ☐	No ☐	NA ☑	3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note (circle one), other:_____. (For coolers received via commercial courier, PMs are to be notified immediately.
Yes ☐	No ☐	NA ☑	4. Is the commercial courier's packing slip attached to this form?
Yes ☑	No ☐		5. Were proper custody procedures (relinquished/received) followed?
Yes ☐	No ☐	NA ☑	5a Were samples relinquished by client to commercial courier?
Yes ☑	No ☐		6. Were sample IDs listed?
Yes ☑	No ☐		7. Was collection date & time listed?
Yes ☑	No ☐		8. Were tests to be performed listed on the COC?
Yes ☑	No ☐		9. Did all samples arrive in the proper containers for each test?
Yes ☑	No ☐		10. Did all container label information (ID, date, time) agree with COC?
Yes ☑	No ☐		11. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐		12. Was adequate sample volume available?
Yes ☑	No ☐		13. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑		14. Were any samples containers missing?
Yes ☐	No ☑		15. Were there any excess samples not listed on COC?
Yes ☐	No ☑	NA ☐	16. Were bubbles present >"pea-size" (¼"or 6mm in diameter) in any VOA vials?
Yes ☑	No ☐	NA ☐	17. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☑	18. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☑	19. Were all applicable NH3/TKN/cyanide/phenol (<0.2mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	20. Were collection temperatures documented on the COC for NC samples?
Yes ☐	No ☐	NA ☑	21. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?

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

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

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

Sample(s)_____ were received with TRC >0.2 mg/L for NH3/TKN/cyanide/phenol

Sample labels verified by: _____ Date:

Corrective Action taken, if necessary:

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

SESI employee: _____ Date of response: _____

Comments:

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

Date	*4/97*	*9/97*	*4/98*	*9/98*	*4/99*	*9/99*	*5/00*	*10/00*	*5/01*	*12/01*	*7/02*	*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*	*11/11*	*5/12*	*12/12*	*5/13*	*12/13*	*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	3.3BJ	BDL	BDL	BDL	BDL	12J	10J	BDL	BDL	BDL	BDL	BDL	BDL	6,000
Carbon Disulfide	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.5	BDL	BDL	0.34J	BDL	BDL	BDL	BDL	1.3	0.22J	BDL	BDL	BDL	0.1J	BDL	0.19J	BDL	700
Chlorobenzene	BDL	BDL	13	7.2	16	20	26	18	17	11.5	14.6	5	8	5	5.5	12	2	6.2	13	BDL	14	3.8	3.5	1	15	0.82J	BDL	6	0.93J	BDL	0.33J	2.6	BDL	11	50
1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.54J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	20
1,4-Dichlorobenzene	BDL	BDL	BDL	BDL	6	[illegible]	BDL	BDL	BDL	4.2	4.9	2.4	2.7	BDL	1.6	2.8	BDL	1.2	3.4	BDL	2.6	0.82J	1.1	0.57J	1.2	BDL	BDL	1.4	0.39J	BDL	BDL	1.9	BDL	1.9	6
cis-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.1	BDL	1.4	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.12J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	70
Ethylbenzene	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	BDL	0.42J	BDL	600
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1	BDL	BDL	0.52J	BDL	BDL	BDL	0.49J	BDL	7.7	BDL	600
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	[illegible]	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	6	BDL	BDL	BDL	BDL	[illegible]	[illegible]	BDL	BDL	BDL	BDL	[illegible]	6.1	8.4	BDL	6.3	6	BDL	BDL	4.1J	BDL	BDL	BDL	7J	BDL	BDL	5.9J	9.3BJ	6.7J	6.8J	4J	BDL	4.7J	10
Barium	510	[illegible]	490	[illegible]	BDL	540	[illegible]	[illegible]	BDL	335	384	190	200	230	380	320	140	400	390	120	240	170	170	74	170	92	140	330	240	95	90	230	110	210	700
Cadmium	2	[illegible]	[illegible]	[illegible]	1	[illegible]	[illegible]	[illegible]	2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1J	BDL	0.68J	0.99J	BDL	BDL	BDL	2
Chromium	[illegible]	[illegible]	[illegible]	[illegible]	BDL	[illegible]	[illegible]	[illegible]	[illegible]	BDL	9	BDL	BDL	[illegible]	[illegible]	[illegible]	BDL	[illegible]	[illegible]	BDL	[illegible]	2.3J	BDL	BDL	BDL	BDL	BDL	[illegible]	[illegible]	BDL	BDL	2.1BJ	BDL	BDL	10
Lead	[illegible]	[illegible]	[illegible]	[illegible]	BDL	[illegible]	[illegible]	[illegible]	BDL	BDL	5	BDL	[illegible]	[illegible]	[illegible]	[illegible]	11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	9.6J	2.4J	9.1J	BDL	15
Selenium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7.3BJ	BDL	4.9J	BDL	3.8J	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	0.74BJ	BDL	1.2J	BDL	BDL	1.1	BDL	BDL	2.6J	BDL	BDL	BDL	BDL	BDL	20
Mercury	BDL	BDL	BDL	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.053J	0.19	0.082J	0.2	BDL	BDL	0.055BJ	0.016J	1

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

Date	*4/97*	*9/97*	*4/98*	*9/98*	*4/99*	*9/99*	*5/00*	*10/00*	*5/01*	*12/01*	*7/02*	*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*	*11/11*	*5/12*	*12/12*	*5/13*	*12/13*	*NCGPS*
Appendix I VOC's																																			
Acetone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	30	BDL	8.5J	4.9BJ	BDL	10J	BDL	9.6J	17J	13J	BDL	12J	6.7J	BDL	BDL	BDL	6,000
Benzene	[illegible]	BDL	BDL	BDL	BDL	[illegible]	BDL	BDL	BDL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1
Carbon Disulfide	29	14	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4	1.5	BDL	BDL	BDL	BDL	BDL	BDL	0.42J	BDL	BDL	BDL	BDL	0.97J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	700
Chlorobenzene	BDL	BDL	BDL	BDL	5	BDL	5	6	5.4	5	4.8	4.2	3.4	2.3	5.2	5.3	4.4	4.5	5.5	5.2	5.5	4.8	6.1	6.6	4.2	4.4	5.2	6.8	5.8	7.8	7.7	7.5	7.5	6.3	50
Chloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.68J	BDL	BDL	2.1	1J	0.97J	BDL	BDL	0.63J	0.72J	0.48J	0.54J	0.53J	3,000
1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.5	BDL	BDL	1.2	1	BDL	BDL	1.3	1.1	0.84J	0.89J	1.4	1.7	BDL	BDL	0.88J	1.1	1	1.6	1.3	1.3	1.1	0.87J	20
1,4-Dichlorobenzene	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	6
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.3	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.64J	0.43J	0.39J	0.64J	BDL	0.73J	0.7J	0.84J	0.48J	0.52J	0.5J	0.38J	0.45J	0.34J	6
1,2-Dichloropropane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.78J	0.52J	0.4J	0.52J	BDL	0.56J	0.77J	[illegible]	0.44J	0.43J	0.54J	0.39J	0.58J	0.53J	0.6
cis-1,2-Dichloroethene	9.2	12	BDL	8.5	BDL	11	BDL	6	BDL	BDL	BDL	2	26	5	3.3	8.4	13	6.7	2.1	BDL	3.9	2	1	1.2	7.5	5.7	13	4.3	7.8	3	3.7	0.82J	14	6.3	70
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4	BDL	BDL	BDL	2.4	BDL	2.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	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	0.79BJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
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	BDL	0.4J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	560
Styrene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.23J	BDL	0.12J	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	0.38J	0.36J	0.44J	0.4J	0.59J	0.37J	0.56J	BDL	0.34J	0.35J	0.33J	0.4J	0.35J	BDL	600
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	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.22J	BDL	3
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	[illegible]	[illegible]	[illegible]	[illegible]	BDL	[illegible]	BDL	BDL	[illegible]	0.88J	0.77J	0.42J	BDL	[illegible]	[illegible]	0.22J	0.98J	0.46J	0.55J	0.22J	[illegible]	[illegible]	0.03
Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.5	BDL	BDL	BDL	BDL	BDL	BDL	1.1	BDL	0.71J	0.6J	2.2	BDL	0.62J	BDL	1.2	BDL	1.1	0.57J	0.69J	0.94J	0.36J	BDL	500
RCRA Metals																																			
Arsenic	7	BDL	BDL	6.5	BDL	BDL	BDL	BDL	BDL	BDL	[illegible]	BDL	[illegible]	BDL	7.6	5.2	9.8	[illegible]	7.8	[illegible]	7.9	[illegible]	[illegible]	[illegible]	[illegible]	4.5J	8.5J	8.6BJ	[illegible]	[illegible]	8J	7J	[illegible]	[illegible]	10
Barium	[illegible]	[illegible]	[illegible]	[illegible]	590	[illegible]	BDL	BDL	BDL	609	686	[illegible]	120	[illegible]	[illegible]	610	600	590	670	[illegible]	480	51	650	580	460	450	560	510	600	470	600	490	560	380	700
Cadmium	[illegible]	[illegible]	2	[illegible]	BDL	[illegible]	[illegible]	[illegible]	1	BDL	[illegible]	BDL	BDL	BDL	[illegible]	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.94J	BDL	0.73J	BDL	BDL	BDL	BDL	[illegible]	BDL	[illegible]	BDL	2
Chromium	[illegible]	[illegible]	[illegible]	[illegible]	BDL	10	BDL	BDL	BDL	BDL	6	BDL	BDL	BDL	[illegible]	BDL	BDL	BDL	BDL	7.1	BDL	BDL	BDL	BDL	BDL	2.1J	BDL	BDL	2.1J	BDL	BDL	BDL	BDL	BDL	10
Lead	[illegible]	[illegible]	[illegible]	[illegible]	BDL	BDL	BDL	BDL	BDL	BDL	6	BDL	BDL	BDL	BDL	10	BDL	5.8	BDL	7	BDL	BDL	8.9	14	10	4.4J	BDL	BDL	BDL	BDL	2.6J	BDL	[illegible]	BDL	15
Mercury	BDL	BDL	BDL	[illegible]	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	0.061J	0.089J	BDL	BDL	0.043J	1
Selenium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6	BDL	17	BDL	17	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	8.8	BDL	BDL	2.8BJ	BDL	15	BDL	3.5J	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	BDL	4.7J	BDL	0.62J	BDL	4.6J	BDL	BDL	4.1J	BDL	BDL	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-3
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
GASTON COUNTY - CLOSED AUTEN LANDFILL
GASTON COUNTY, NORTH CAROLINA

Date	*4/97*	*9/97*	*4/98*	*9/98*	*4/99*	*9/99*	*5/00*	*10/00*	*5/01*	*12/01*	*7/02*	*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*	*11/11*	*5/12*	*12/12*	*5/13*	*12/13*	*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	2.2J	3.7BJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6,000
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.8	1.2	0.62	BDL	BDL	1.2	1.4	BDL	1.4	1.5	1.3	1.4	2.1	1.1	1.5	BDL	1.5	1.6	2.6	1.3	3.6	4.2	2.1	1.7	1.3	1
Carbon Disulfide	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1	1.6	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.62J	BDL	BDL	BDL	BDL	0.87J	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	0.96J	1.1	0.5J	BDL	BDL	0.92J	1.1	2.2	0.69J	3.5	1.4	2.9	1.2	0.87J	50
1,2-Dichlorobenzene	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	1.7	BDL	1	BDL	BDL	20
1,4-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4.2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.2	BDL	1.2	BDL	BDL	BDL	2	BDL	5.6	0.46J	0.61	0.67J	0.37J	6
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.17J	0.2J	BDL	0.17J	BDL	BDL	BDL	0.24J	BDL	0.59J	BDL	0.37J	0.18J	BDL	6
cis-1,2-Dichloroethene	13	10	BDL	8.1	9	17	9	16	12	24.6	10.2	6.4	2.8	1.8	8.1	5.6	2.9	5.7	6.1	1.7	4.2	4.8	1.3	0.91J	0.95J	0.66J	2.4	0.65J	0.44J	0.9J	1.1	BDL	0.65J	0.16J	70
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.2J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.56J	BDL	0.86J	BDL	BDL	600
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	10.9	9.4	BDL	BDL	BDL	0.2	BDL	BDL	2.4	BDL	BDL	1.8	2.3	BDL	0.88J	BDL	0.75J	1.1	BDL	0.35J	0.61J	0.85J	BDL	0.6J	BDL	0.03
Xylenes	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	3.3	BDL	1.7	BDL	BDL	500
RCRA Metals																																			
Arsenic	BDL	5	BDL	BDL	BDL	BDL	16	BDL	BDL	BDL	BDL	BDL	2J	43	29	77	19	34	51	15	76	200	5.8	BDL	28	6.5J	BDL	BDL	22B	BDL	14	BDL	22J	10	10
Barium	420	350	380	BDL	BDL	BDL	680	BDL	BDL	213	73	110	81	700	390	740	120	380	390	200	260	820	63	65	73	82	57	80	65	210	71	180	83	56	700
Cadmium	BDL	2	BDL	BDL	2	3.4	17	BDL	BDL	BDL	1	BDL	BDL	BDL	0.6	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.2J	0.88J	0.96J	BDL	BDL	BDL	BDL	BDL	BDL	1.3J	BDL	2
Chromium	31	25	27	30	BDL	41	50	BDL	BDL	BDL	BDL	BDL	BDL	150	31	53	BDL	29	30	12	22J	43	BDL	BDL	3.9J	3.7J	BDL	BDL	BDL	BDL	BDL	2.4BJ	BDL	BDL	10
Lead	20	20	24	23	BDL	BDL	44	BDL	BDL	BDL	BDL	BDL	BDL	28	15	43	BDL	23	13	6.5	14	14	BDL	10	12	3.6J	5.8J	BDL	BDL	BDL	BDL	BDL	7.4	BDL	15
Mercury	BDL	BDL	BDL	0.3	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	0.088J	BDL	BDL	0.069BJ	0.02J	1
Selenium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6	BDL	19	BDL	9.4	BDL	BDL	BDL	BDL	6.3	BDL	BDL	6.1B	BDL	17	BDL	12	3.5BJ	BDL	20	BDL	BDL	4.7J	BJ	BDL	20
Silver	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.2J	BDL	0.84J	1.6J	BDL	BDL	BDL	0.2J	BDL	1.3J	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 AUTEN LANDFILL
GASTON COUNTY, NORTH CAROLINA

Date	*4/97*	*9/97*	*4/98*	*9/98*	*4/99*	*9/99*	*5/00*	*10/00*	*5/01*	*12/01*	*7/02*	*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*	*11/11*	*5/12*	*12/12*	*5/13*	*12/13*	*NCGPS*
Appendix I VOC's																																			
Acetone	BDL	BDL	450	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.2J	3BJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6,000
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.64J	0.43J	0.41J	0.56J	BDL	0.39J	0.22J	0.59J	0.28J	0.25J	0.23J	0.23J	BDL	0.23J	1
Carbon Disulfide	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.2J	BDL	BDL	BDL	BDL	0.25J	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	0.55J	0.5J	0.38J	BDL	BDL	0.55J	0.42J	0.98J	0.46J	0.79J	0.43J	1	BDL	0.64J	50
1,4-Dichlorobenzene	BDL	BDL	BDL	[illegible]	BDL	6	BDL	BDL	BDL	BDL	BDL	BDL	1.7	BDL	BDL	1.2	BDL	1.3	BDL	BDL	0.53J	1.3	0.86J	0.91J	BDL	BDL	BDL	1.3	0.84J	1.2	0.36J	BDL	0.47J	0.51J	6
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.18J	0.24J	0.16J	0.21J	BDL	0.24J	BDL	0.19J	BDL	BDL	BDL	BDL	BDL	BDL	6
1,2-Dichloroethane	[illegible]	BDL	BDL	[illegible]	BDL	[illegible]	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	0.6
cis-1,2-Dichloroethene	8.4	6	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.2	BDL	BDL	BDL	BDL	0.21J	1.1	0.45J	0.41J	BDL	0.58J	BDL	0.37J	0.2J	BDL	BDL	BDL	BDL	BDL	70
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	11.8	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	600
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.17J	0.41J	0.28J	BDL	BDL	BDL	BDL	BDL	0.32J	0.41J	0.14J	BDL	0.18J	BDL	0.03
RCRA Metals																																			
Arsenic	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	9	6.5	BDL	BDL	6.7	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7.6BJ	BDL	BDL	BDL	8.9J	BDL	10
Barium	[illegible]	490	160	[illegible]	BDL	BDL	BDL	BDL	BDL	79	65	80	91	200	270	310	120	150	120	220	54	77	62	77	170	160	74	70	70	72	95	72	200	84	700
Cadmium	[illegible]	[illegible]	BDL	1.7	2	2	2	2	BDL	BDL	1	BDL	BDL	BDL	BDL	1.1	[illegible]	BDL	BDL	1.2	1.3J	[illegible]	BDL	[illegible]	[illegible]	[illegible]	BDL	1.2J	BDL	1.3J	1.3J	1.2J	[illegible]	0.81J	2
Chromium	[illegible]	[illegible]	6	[illegible]	BDL	10	BDL	BDL	BDL	BDL	BDL	BDL	BDL	[illegible]	[illegible]	[illegible]	BDL	9.6	5.8	[illegible]	3J	BDL	3.3	BDL	[illegible]	[illegible]	2.6J	BDL	BDL	BDL	BDL	2.1BJ	[illegible]	BDL	10
Lead	[illegible]	[illegible]	13	[illegible]	BDL	10	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5.2	14	[illegible]	3.8	BDL	3.8	8.5	BDL	BDL	BDL	5.8	[illegible]	7.5J	BDL	BDL	BDL	2.6J	BDL	2.9J	[illegible]	BDL	15
Mercury	BDL	BDL	BDL	[illegible]	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.056J	BDL	BDL	BDL	BDL	BDL	0.067J	BDL	BDL	0.048BJ	0.018J	1
Selenium	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	4.8J	BDL	BDL	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	1.5BJ	BDL	1.4J	0.53J	BDL	5.7	BDL	BDL	BDL	BDL	BDL	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

rk:table:authistgw.mw4

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

Date	*4/97*	*9/97*	*4/98*	*9/98*	*4/99*	*9/99*	*5/00*	*10/00*	*5/01*	*12/01*	*7/02*	*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*	*11/11*	*5/12*	*12/12*	*5/13*	*12/13*	*NCGPS*
Appendix I VOC's																																			
Acetone	BDL	BDL	BDL	BDL	29	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.8J	4BJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6,000
Benzene	6.2	BDL	BDL	BDL	[illegible]	BDL	9	BDL	6	BDL	BDL	[illegible]	[illegible]	BDL	4.7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.69J	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1
Carbon Disulfide	5.9	9.4	BDL	BDL	13	BDL	BDL	39	BDL	BDL	4.1	BDL	3.9	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.67J	BDL	BDL	BDL	BDL	1.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	700
Chlorobenzene	8.3	6.1	13	BDL	17	BDL	20	6	22	BDL	3.7	6.7	15	2.1	18	13	9	11	12	15	18	2.3	10	10	12	10	15	18	14	13	14	7	16	12	50
Chloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.71J	BDL	BDL	BDL	2.7	1.3J	1.9J	0.47J	1.3J	1.1J	0.8J	BDL	0.66J	0.77J	3,000
Chloromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.48J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3
1,2-Dichlorobenzene	5.8	BDL	7.6	BDL	7	BDL	BDL	BDL	6.9	BDL	BDL	1.4	4.6	BDL	5.1	4.2	4.7	5.5	3	4.9	5	0.56J	2.9	3.1	3	1.1	3.7	4.4	3.1	3.7	3.4	1.5	3.8	2.4	20
1,4-Dichlorobenzene	31	16	45	BDL	99	6	40	9	36	2.8	6.2	8.8	34	6.6	25	BDL	26	32	18	22	24	5.2	16	18	30	29	125	23	18	20	17	9.2	[illegible]	12	6
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.2	BDL	1.4	BDL	1.1	BDL	BDL	BDL	0.97J	BDL	0.43J	0.35J	BDL	0.48J	0.69J	0.46J	0.41J	0.27J	0.34J	0.14J	0.27J	BDL	6
1,2-Dichloroethane	[illegible]	[illegible]	[illegible]	BDL	[illegible]	[illegible]	[illegible]	[illegible]	5.2	BDL	BDL	BDL	BDL	322	1.5	[illegible]	BDL	BDL	1.7	BDL	1.2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.4
cis-1,2-Dichloroethene	11	6.7	5.4	BDL	6	BDL	BDL	5	BDL	BDL	BDL	BDL	3.2	1.8	1.9	2.1	1.4	1.9	2.1	1.2	2.4	1.2	0.65J	0.85J	BDL	0.97J	0.56J	1.5	0.38J	0.42J	0.32J	0.34J	0.37J	0.76J	70
Styrene	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	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	0.32J	BDL	BDL	BDL	0.47J	0.47J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.36J	600
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.2J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.2	0.41J	1.1	0.71J	BDL	0.53J	0.73J	BDL	0.55J	0.32J	0.44J	0.22J	0.61J	0.69J	0.03
Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.3	BDL	2.3	BDL	BDL	BDL	BDL	BDL	BDL	0.32J	BDL	BDL	BDL	0.41J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	500
RCRA Metals																																			
Arsenic	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7.7	9.8	6.5	BDL	BDL	6.6	BDL	7.3	5.8	12	4.6J	4.5J	16	5.6J	4.9J	BDL	16B	[illegible]	23	BDL	16	8J	10
Barium	240	510	450	620	BDL	620	BDL	BDL	BDL	75	97	120	91	180	520	310	300	280	250	320	240	300	180	150	200	320	300	180	220	190	220	160	230	160	700
Cadmium	BDL	4	2	1	[illegible]	[illegible]	2	2	BDL	BDL	BDL	BDL	BDL	BDL	2.2	2.6	BDL	BDL	BDL	BDL	BDL	1.2J	BDL	0.64J	BDL	2	BDL	BDL	BDL	BDL	BDL	BDL	1.2J	BDL	2
Chromium	BDL	10	3	34	BDL	[illegible]	BDL	BDL	BDL	BDL	BDL	12	BDL	BDL	11	BDL	BDL	5.9	BDL	BDL	4.3J	6.3	BDL	BDL	BDL	5.2	BDL	BDL	BDL	BDL	BDL	2.1BJ	BDL	BDL	10
Lead	7	23	22	[illegible]	25	24	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	12	7.4	BDL	10	BDL	BDL	2.6J	BDL	8.6	8.1	8.1BJ	10	4.5J	BDL	BDL	BDL	BDL	BDL	45	BDL	15
Mercury	BDL	BDL	BDL	[illegible]	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	0.076J	BDL	BDL	0.035BJ	BDL	1
Selenium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	56	12	9	15	BDL	14	9.5	BDL	BDL	BDL	5.2	BDL	BDL	BDL	BDL	14	BDL	5	BDL	BDL	18	BDL	BDL	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	BDL	4.6J	BDL	0.65J	BDL	BDL	BDL	BDL	18	BDL	BDL	BDL	BDL	0.81J	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

rk:table:authistgw.mw5

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

Date	*10/00*	*5/01*	*12/01*	*7/02*	*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*	*11/11*	*5/12*	*12/12*	*5/13*	*12/13*	*NCGPS*
Appendix I VOC's																												
Acetone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.9J	2.8BJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6,000
Carbon Disulfide	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.16J	BDL	BDL	BDL	BDL	1.6	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	700
Chloroform	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.18J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	70
Bromoform	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.8	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4
1,4-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	1.2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6
RCRA Metals																												
Arsenic	BDL	BDL	BDL	BDL	BDL	5.4	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	8.7BJ	5.7J	BDL	BDL	BDL	5.6J	10
Barium	BDL	BDL	59	60	100	140	130	140	120	170	110	150	140	160	82	87	76	120	92	140	95	140	85	120	71	150	93	700
Cadmium	2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.1	BDL	BDL	BDL	BDL	BDL	[illegible]	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2
Lead	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.6J	5.3	4.2	6BJ	3.1J	BDL	BDL	4.8J	6.8J	BDL	BDL	13	BDL	15
Mercury	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.15	BDL	BDL	BDL	BDL	0.066BJ	0.058J	1
Selenium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7.2BJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	20
Silver	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.81BJ	BDL	0.96J	BDL	BDL	1.2	BDL	BDL	BDL	BDL	BDL	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

rk:table:authistgw.mw5A

MW-6
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
GASTON COUNTY - CLOSED AUTEN LANDFILL
GASTON COUNTY, NORTH CAROLINA

Date	*10/00*	*5/01*	*12/01*	*7/02*	*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*	*11/11*	*5/12*	*12/12*	*5/13*	*12/13*	*NCGPS*
Appendix I VOC's																												
Carbon Disulfide	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	700
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.18J	BDL	0.37J	0.32J	0.35J	0.28J	0.16J	0.19J	0.13J	0.17J	BDL	6
cis-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2	1.3	BDL	BDL	BDL	BDL	BDL	0.59J	0.56J	1.3	2.2	2.7	2.7	2.7	1.7	0.79J	0.78J	0.49J	0.48J	0.73J	70
2-Hexanone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.4J	BDL	BDL	BDL	280
Tetrachloroethene	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	BDL	BDL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	BDL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.7
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.3	BDL	BDL	BDL	BDL	BDL	BDL	0.37J	0.46J	0.72J	1.2	1.3	1.3	BDL	0.65J	0.51J	0.43J	0.32J	0.3J	0.32J	3
RCRA Metals																												
Arsenic	[illegible]	BDL	[illegible]	[illegible]	BDL	BDL	[illegible]	[illegible]	[illegible]	BDL	[illegible]	[illegible]	[illegible]	BDL	BDL	BDL	4.7J	BDL	BDL	BDL	BDL	5.4BJ	[illegible]	BDL	BDL	4.5J	BDL	10
Barium	[illegible]	BDL	504	[illegible]	48	120	[illegible]	[illegible]	[illegible]	540	[illegible]	[illegible]	[illegible]	65	51	65	210	66	61	84	49	40	73	44	50	47	53	700
Cadmium	[illegible]	BDL	BDL	[illegible]	BDL	BDL	BDL	[illegible]	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	[illegible]	1.4J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2
Chromium	[illegible]	BDL	44	[illegible]	BDL	BDL	[illegible]	[illegible]	[illegible]	10	[illegible]	[illegible]	[illegible]	4.1J	BDL	2.8J	[illegible]	3.4J	BDL	4.5J	BDL	BDL	3.3J	BDL	BDL	BDL	BDL	10
Lead	[illegible]	BDL	10	[illegible]	BDL	BDL	[illegible]	[illegible]	[illegible]	11	[illegible]	[illegible]	[illegible]	8.5	BDL	6.2	[illegible]	9.8B	2J	6.7J	2.1BJ	BDL	BDL	BDL	BDL	[illegible]	9.6J	15
Mercury	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.062J	BDL	BDL	BDL	BDL	BDL	BDL	0.02BJ	BDL	1
Selenium	BDL	BDL	BDL	BDL	BDL	BDL	10	BDL	BDL	BDL	BDL	7.1	BDL	BDL	3.2BJ	0.54J	3.7J	2.6	BDL	7.5BJ	BDL	BDL	BDL	3.7J	BDL	BDL	BDL	20
Silver	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.1J	BDL	BDL	BDL	BDL	0.9J	BDL	BDL	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

TW-1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
GASTON COUNTY - CLOSED AUTEN LANDFILL
GASTON COUNTY, NORTH CAROLINA

Date	*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*	*11/11*	*5/12*	*12/12*	*5/13*	*12/13*	*NCGPS*
Appendix I VOC's																							
Tetrachloroethene	BDL	BDL	BDL	BDL	BDL	NT	NT	NT	0.19J	NT	NT	NT	NT	NT	0.58J	NT	NT	NT	NT	NT	NT	NT	0.7
Toluene	BDL	170	BDL	BDL	BDL	NT	NT	NT	BDL	NT	NT	NT	NT	NT	BDL	NT	NT	NT	NT	NT	NT	NT	600
RCRA Metals																							
Arsenic	BDL	**[illegible]**	BDL	**[illegible]**	BDL	NT	NT	NT	24J	NT	NT	NT	NT	NT	5.1J	NT	NT	NT	NT	NT	NT	NT	10
Barium	180	**[illegible]**	120	**[illegible]**	400	NT	NT	NT	**<200**	NT	NT	NT	NT	NT	**[illegible]**	NT	NT	NT	NT	NT	NT	NT	700
Cadmium	BDL	BDL	BDL	BDL	BDL	NT	NT	NT	9.8J	NT	NT	NT	NT	NT	BDL	NT	NT	NT	NT	NT	NT	NT	2
Chromium	BDL	**[illegible]**	BDL	**[illegible]**	2.2	NT	NT	NT	**<40**	NT	NT	NT	NT	NT	**[illegible]**	NT	NT	NT	NT	NT	NT	NT	10
Lead	3.1	**[illegible]**	BDL	**[illegible]**	**[illegible]**	NT	NT	NT	**<200**	NT	NT	NT	NT	NT	**[illegible]**	NT	NT	NT	NT	NT	NT	NT	15
Mercury	BDL	BDL	BDL	BDL	BDL	NT	NT	NT	0.071J	NT	NT	NT	NT	NT	BDL	NT	NT	NT	NT	NT	NT	NT	1
Silver	BDL	BDL	BDL	BDL	BDL	NT	NT	NT	8.6BJ	NT	NT	NT	NT	NT	BDL	NT	NT	NT	NT	NT	NT	NT	20
Selenium	BDL	6.9	BDL	BDL	BDL	NT	NT	NT	25	NT	NT	NT	NT	NT	4.8BJ	NT	NT	NT	NT	NT	NT	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

bold and shade denotes above NCGPS

NT = not tested (TW-1 was dry and unable to be sampled)

data presented in micrograms per liter (ug/l)

B = detected in method blank

J = estimated result <PQL and >=MDL

rk:table:authistgw.tw1

TW-2
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
GASTON COUNTY - CLOSED AUTEN LANDFILL
GASTON COUNTY, NORTH CAROLINA

Date	*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*	*11/11*	*5/12*	*12/12*	*5/13*	*12/13*	*NCGPS*
Appendix I VOC's																							
Acetone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.9BJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6,000
Carbon Disulfide	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.64J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	700
Chloroform	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.34J	0.47J	0.65J	0.58J	70
cis-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.59J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	70
4-Methyl-2-Pentanone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.57J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	560
Tetrachloroethene	[illegible]	BDL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.63J	[illegible]	[illegible]	[illegible]	0.54J	0.25J	0.53J	0.7
RCRA Metals																							
Arsenic	BDL	BDL	BDL	7.4	BDL	[illegible]	BDL	[illegible]	BDL	BDL	BDL	[illegible]	BDL	BDL	BDL	BDL	9.2BJ	BDL	BDL	8.1J	BDL	BDL	10
Barium	210	76	240	[illegible]	[illegible]	[illegible]	100	[illegible]	120	220	190	[illegible]	81	180	110	170	130	120	180	690	110	110	700
Cadmium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	[illegible]	BDL	BDL	BDL	BDL	BDL	BDL	1.3J	BDL	BDL	BDL	2
Chromium	7.2	BDL	[illegible]	[illegible]	BDL	[illegible]	BDL	[illegible]	7.1	[illegible]	6.2	[illegible]	BDL	5.6	3.7J	3J	4.6J	3.7J	9.5	[illegible]	3.4J	4.8J	10
Lead	7.2	BDL	5.7	[illegible]	9.1	[illegible]	BDL	[illegible]	3.8	BDL	8.9	[illegible]	5.8BJ	6.2J	2.2J	BDL	6.5J	5.4J	6.2J	[illegible]	[illegible]	8.5J	15
Mercury	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.073J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1
Selenium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4.4BJ	BDL	[illegible]	3.1J	3.5J	5.4BJ	BDL	7.9J	3.5BJ	BDL	BDL	BDL	BDL	20
Silver	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	[illegible]	BDL	BDL	BDL	BDL	1.1J	BDL	BDL	BDL	BDL	0.48J	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

rk:table:authistgw.tw2

TW-3
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
GASTON COUNTY - CLOSED AUTEN LANDFILL
GASTON COUNTY, NORTH CAROLINA

Date	*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*	*11/11*	*5/12*	*12/12*	*5/13*	*12/13*	*NCGPS*
Appendix I VOC's																							
Acetone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6.3BJ	BDL	BDL	NT	NT	27	6.8J	BDL	BDL	BDL	BDL	BDL	BDL	6,000
2-Butanone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	NT	6.8J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4,000
Carbon Disulfide	BDL	BDL	BDL	BDL	BDL	1.5	BDL	BDL	BDL	BDL	BDL	BDL	NT	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	700
Chloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.1J	BDL	BDL	NT	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3,000
Chloroform	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	NT	BDL	BDL	BDL	0.34J	BDL	0.4J	0.47J	BDL	70
1,1-Dichloroethane	BDL	1	1.6	1.4	1.1	BDL	BDL	BDL	BDL	0.15J	0.13J	0.15J	NT	NT	0.22J	0.13J	BDL	BDL	BDL	BDL	BDL	BDL	6
cis-1,2-Dichloroethene	6.8	33	11	6.7	4	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	70
2-Hexanone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.4J	BDL	0.27J	NT	NT	0.92J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	280
4-Methyl-2-Pentanone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	NT	0.4J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	560
Tetrachloroethene	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	BDL	[illegible]	[illegible]	[illegible]	NT	NT	[illegible]	0.21J	0.71J	0.96J	[illegible]	0.66J	[illegible]	[illegible]	0.7
Trichloroethene	[illegible]	[illegible]	[illegible]	2.7	1.7	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.0
RCRA Metals																							
Arsenic	BDL	BDL	BDL	BDL	5.3	9	[illegible]	[illegible]	4.1J	BDL	8.3	4.4	NT	NT	4.9J	9.1BJ	7.4BJ	BDL	[illegible]	[illegible]	7.2J	6J	10
Barium	220	490	210	180	510	500	[illegible]	[illegible]	240	280	560	410	NT	NT	620	380	280	310	250	[illegible]	[illegible]	430	700
Cadmium	BDL	BDL	BDL	1.4	[illegible]	1.4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	NT	NT	1.7J	1.3J	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2
Chromium	BDL	[illegible]	6.2	5.6	5.3	23	[illegible]	46	9.8	1.5	[illegible]	[illegible]	NT	NT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10
Lead	BDL	BDL	BDL	8.2	4.3	[illegible]	[illegible]	[illegible]	5	7	[illegible]	[illegible]	NT	NT	9.2J	8.3BJ	3.8J	6.7J	5.9J	BDL	BDL	[illegible]	15
Mercury	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.063J	NT	NT	BDL	BDL	BDL	BDL	BDL	BDL	0.038BJ	BDL	1
Selenium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.4J	NT	NT	BDL	BDL	4.8J	BDL	BDL	BDL	3.3J	BDL	20
Silver	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.43J	NT	NT	BDL	BDL	2J	BDL	BDL	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