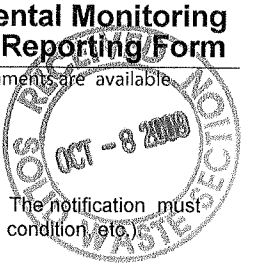
DENR USE ONLY: ☐ Paper Report ☐ Electronic Data - Email CD (data loaded: Yes / No) Doc/Event #:

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).
- In accordance with NC General Statutes Chapter 89C and 89E and NC Solid Waste Management Rules 15A NCAC 13B, be sure to affix a seal to the bottom of this page, when applicable.
- 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 Cramerrton Landfill	Gaston County		.0500	June 15, 2009

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 | (Area Code) Telephone Number

Facility Representative Name (Print) | Title

Signature | October 7, 2009 Date

Affix NC Licensed/ Professional Geologist/Engineer Seal here:

Revised 01/2007

FIRST SEMI-ANNUAL 2009
GROUNDWATER AND SURFACE WATER MONITORING EVENT
GASTON COUNTY - CLOSED CRAMERTON LANDFILL
GASTON COUNTY, NORTH CAROLINA

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FIRST SEMI-ANNUAL 2009
GROUNDWATER AND SURFACE WATER MONITORING EVENT
GASTON COUNTY - CLOSED CRAMERTON LANDFILL
GASTON COUNTY, NORTH CAROLINA

1.0 INTRODUCTION

Buxton Environmental, Inc. respectfully submits the methods and results of the first semi-annual 2008 groundwater and surface water monitoring activities conducted at the Gaston County Closed Cramerton 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. 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 1966 until it closed in 1984. The subject property consists of approximately 44 acres and contains a Colonial Pipeline (petroleum) easement across the central portion of the site. Two landfill areas, one located northwest of the pipeline and one located southeast of the pipeline, were filled during operation.

To comply with NCDWM guidelines, semi-annual groundwater monitoring was initiated in April 1997 at eight shallow monitor wells MW-1 through MW-8. The groundwater samples were analyzed for Appendix I volatile organic compounds (VOC's) and RCRA metals. Groundwater samples collected at the site during these activities indicated several VOC's and metals above the North Carolina Groundwater Protection Standards (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 Cramerton Closed Landfill* report prepared by Resolve Environmental Services, P.A., two deep monitor wells MW-2D and MW-6D and one shallow monitor well MW-7A were installed at the site. The three wells were installed immediately adjacent to monitor wells MW-2, MW-6 and MW-7, respectively. Groundwater sample MW-2D indicated the presence of 68 micrograms per liter (ug/l) lead, which is above the NCGPS. Groundwater sample MW-6D indicated the presence of 20 ug/l lead and 9 ug/l benzene, which are above the NCGPS's. Groundwater sample MW-7A indicated the presence of 22 ug/l lead and 6 ug/l 1,2-dichloroethane, which are above the NCGPS's. During the assessment, 34 water supply wells were identified within a 0.5 mile radius of the former landfill. According to the report, these water supply wells were either located upgradient of the landfill or were separated by a shallow groundwater divide.

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-6D and MW-7A to determine the extent of affected groundwater.

Gaston County recently purchased 2.44 acres of property on the eastern corner of the site located immediately adjacent to monitor well MW-7A, to serve as a buffer for affected groundwater detected at the site.

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3.0 GROUNDWATER AND SURFACE WATER MONITORING ACTIVITIES

On June 15, 2009, Buxton Environmental, Inc. conducted the first semi-annual 2009 groundwater and surface water monitoring event at the subject site. Groundwater monitoring activities were conducted at seven shallow monitor wells MW-1, MW-3, MW-4, MW-5, MW-6, MW-7A and MW-8, and one deep monitor well MW-6D. Monitor wells MW-2 and MW-2D were unable to be located in the field due to heavy vegetative cover. Two attempts to locate the wells were made. These wells will be located with a bush hog mower prior to conducting the next semi-annual monitoring event. 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 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. 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 6010B and 7470A. For quality control purposes, one trip blank was analyzed for Appendix I VOC's. The trip blank was prepared by the laboratory. The laboratory analyses were conducted by Shealy Environmental Services, Inc. in West Columbia, South Carolina. The water samples were collected in general accordance with accepted protocol, including chain-of-custody documentation.

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

4.0 GROUNDWATER FLOW DIRECTION

Based on groundwater levels obtained on June 15, 2009, shallow groundwater flow at the site is to the south, southwest, northwest and southeast. A shallow groundwater flow direction map is provided in Figure 3.

A horizontal hydraulic gradient of 0.04 feet per feet (ft/ft) was observed between shallow monitor wells MW-1 and MW-3. A downward gradient of 0.24 ft/ft was observed at nested monitor wells MW-6 and MW-6D. Downward gradients are generally associated with groundwater recharge zones.

5.0 GROUNDWATER AND SURFACE WATER ANALYTICAL RESULTS

The groundwater and surface water analytical results for the first semi-annual 2009 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-1, MW-4, MW-5, MW-6, MW-6D and MW-7A indicated the presence of target constituents above the NCGPS's, which are summarized below. Groundwater sample MW-1 indicated the presence of 22 ug/l lead. Groundwater sample MW-4 indicated the presence of 1.2 ug/l benzene and 10 ug/l 1,4-dichlorobenzene. Groundwater sample MW-5 indicated the presence of 14 ug/l cadmium and 45 ug/l lead. Groundwater sample MW-6 indicated the presence of 7 ug/l benzene, 20 ug/l 1,4-dichlorobenzene and 7.1 ug/l vinyl chloride. Groundwater sample MW-6D indicated the presence of 3.3 ug/l benzene, 6.4 ug/l 1,4-dichlorobenzene and 2.6 ug/l vinyl chloride. Groundwater sample MW-7A indicated the presence of 6 ug/l benzene, 12 ug/l 1,4-dichlorobenzene and 3.2 ug/l cadmium. The remaining groundwater samples did not indicate target constituents above the NCGPS's.

The Upstream and Downstream surface water samples did not indicate target constituents above the NCGPS.

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

6.0 CONCLUSIONS

On June 15, 2009, Buxton Environmental, Inc. conducted the first semi-annual 2009 groundwater monitoring activities at the Closed Cramerton Landfill located in Gaston County, North Carolina. A summary of the findings of this investigation is provided below.

- Shallow groundwater flow at the site is to the south, southwest, northwest and southeast.
- Groundwater samples collected at MW-3, MW-4, MW-5, MW-6, MW-6D and MW-7A indicated target constituents above the NCGPS's.
- The Upstream and Downstream surface water samples did not indicate target constituents above the NCGPS's.

7.0 RECOMMENDATIONS

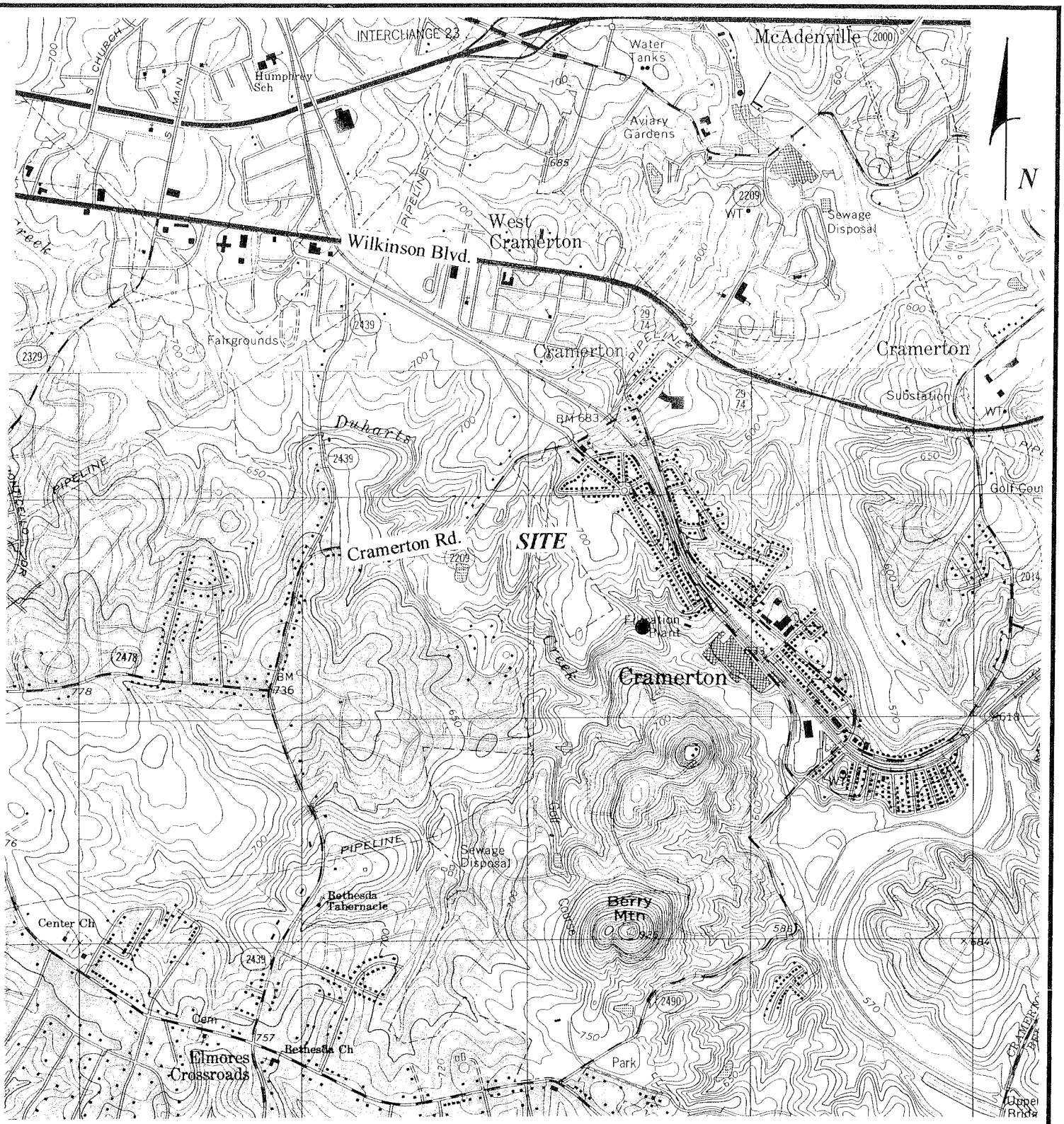
Based on the findings of this assessment, Buxton Environmental, Inc. makes the following recommendations.

- Semi-annual groundwater monitoring should continue to be conducted at the Closed Cramerton Landfill. The next sampling event is anticipated to be conducted in November 2009.

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

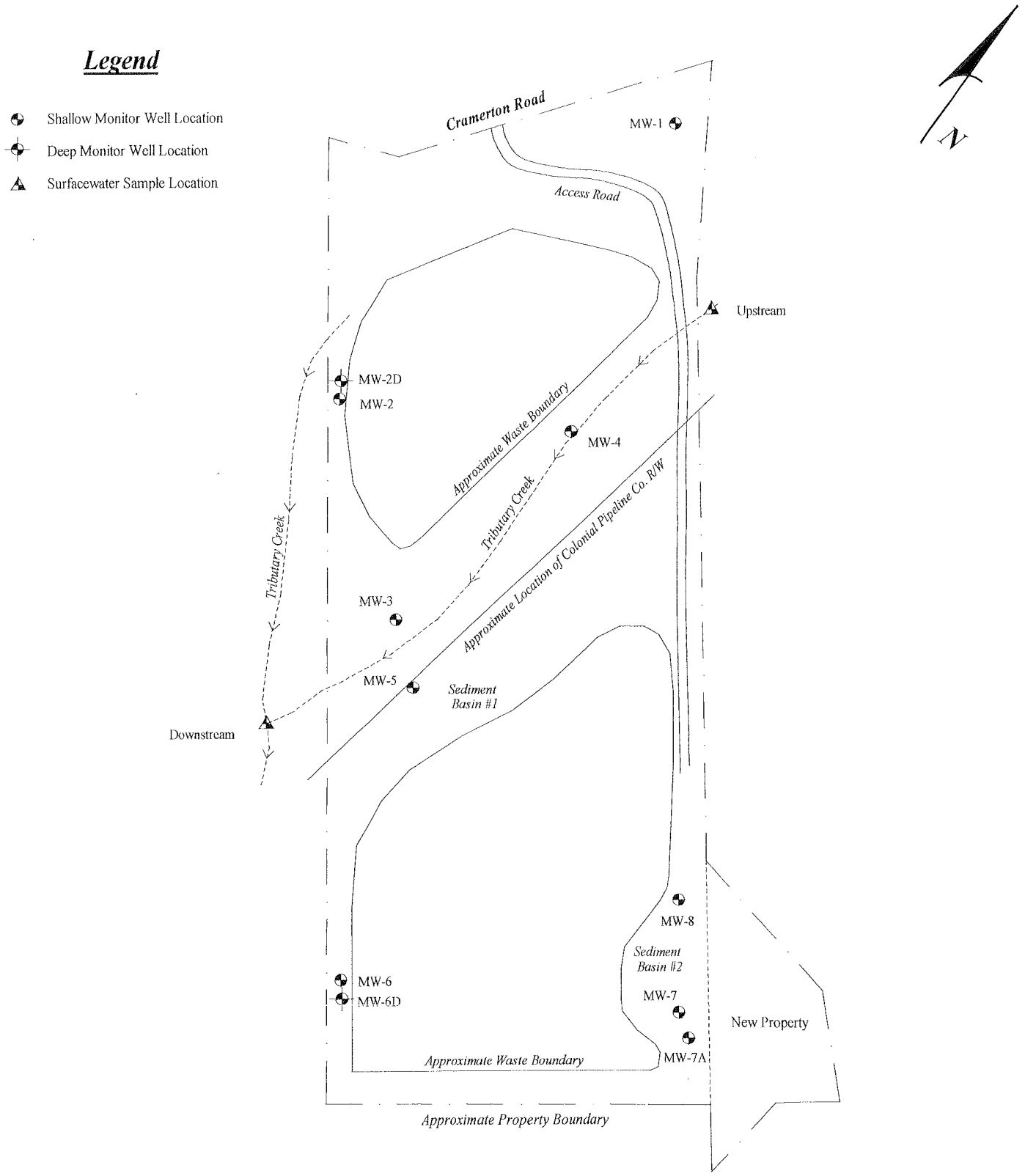
rk:reports:cramertonrpt..609

FIGURES

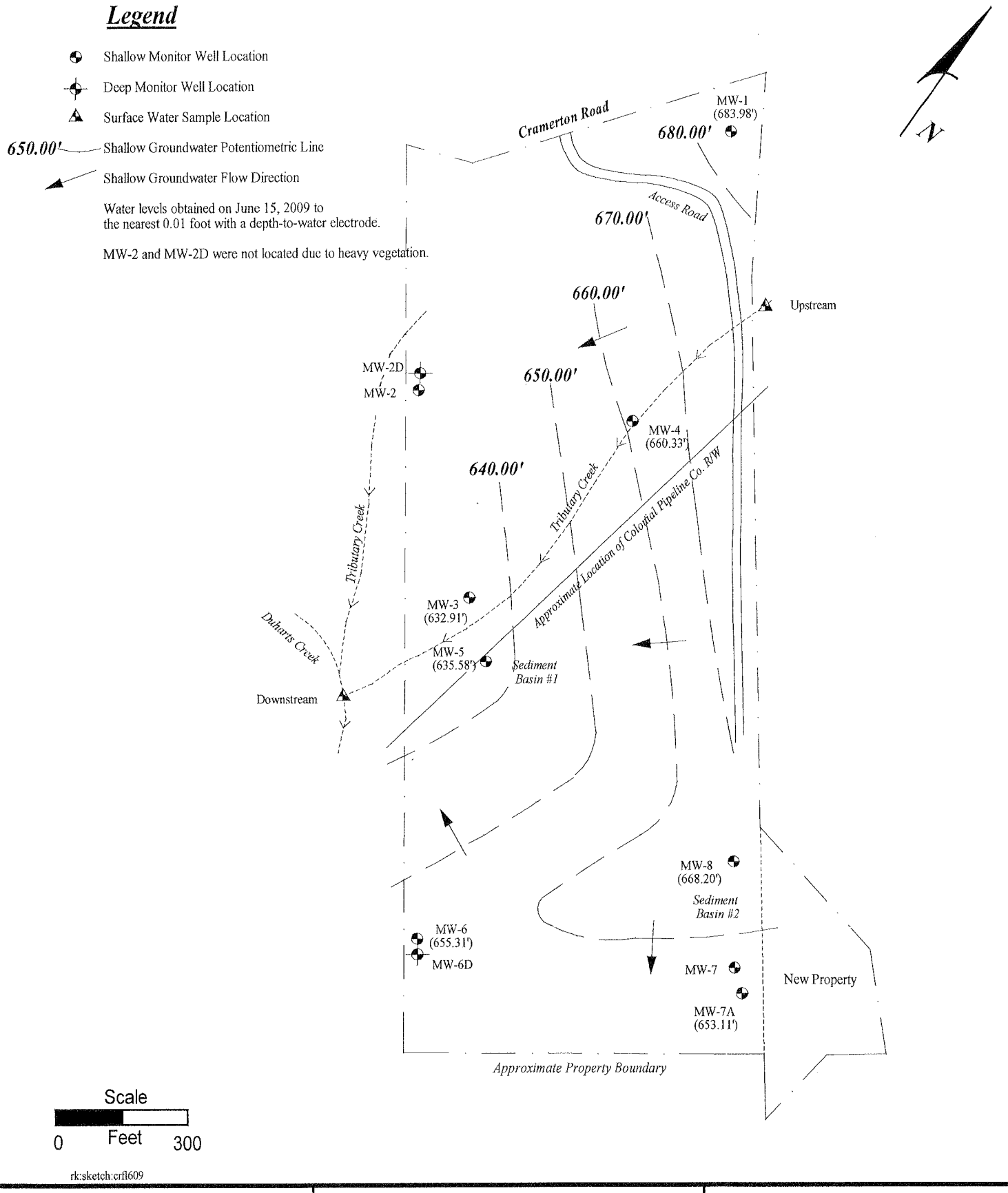


Source: United States Geological Survey, 1993 Mount Holly, 1997 Belmont, North and South Carolina Quadrangles

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



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



Gaston County Closed Cramerton Landfill Gaston County, North Carolina	Buxton Environmental, Inc.	Figure 3. Shallow Groundwater Flow First Semi-Annual 2008

Legend

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

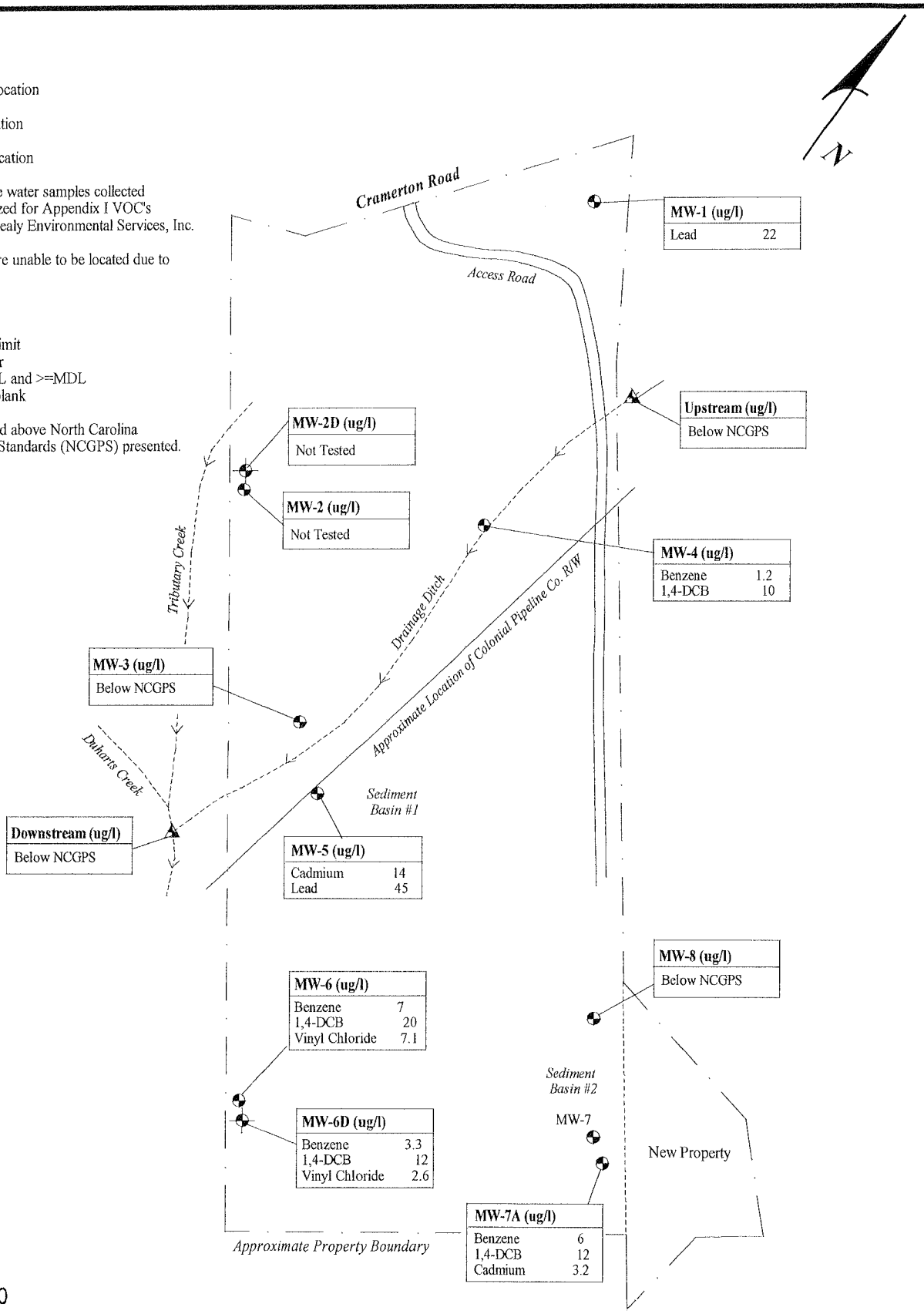
Groundwater and surface water samples collected June 15, 2009 and analyzed for Appendix I VOC's and RCRA Metals by Shealy Environmental Services, Inc.

MW-2 and MW-2D were unable to be located due to heavy vegetative cover.

DCB = Dichlorobenzene

BDL = below detection limit
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) presented.



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Gaston County Closed Cramerton Landfill Gaston County, North Carolina	Buxton Environmental, Inc.	Figure 4. Groundwater Analytical Results First Semi-Annual 2008

TABLES

TABLE 1
GROUNDWATER GAUGING DATA
GASTON COUNTY - CLOSED CRAMERTON LANDFILL
GASTON COUNTY, NORTH CAROLINA
JUNE 15, 2009

Well ID	*TD BTOC (ft)*	*TOC Elevation (ft)*	*DTW BTOC (ft)*	*DTW Elevation (ft)*
MW-1	23.90	702.23	18.25	683.98
MW-2	17.50	652.34	--	--
MW-2D	53.00	656.54	--	--
MW-3	15.50	643.73	10.82	632.91
MW-4	10.00	667.20	6.87	660.33
MW-5	11.70	646.88	11.30	635.58
MW-6	29.00	682.36	27.05	655.31
MW-6D	56.00	685.74	36.03	649.71
MW-7A	38.00	680.03	26.92	653.11
MW-8	26.00	671.01	2.81	668.20

Notes:
Depth to water measurements collected on June 15, 2009 to the nearest 0.01 foot with a depth to water meter.
TD=total depth;BTOC=below top of casing;TOC=top of casing;DTW=depth to water;ft=feet
"--" = no data, wells were unable to be located due to heavy vegetative growth

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TABLE 2
FIELD PARAMETER DATA
GASTON COUNTY - CLOSED CRAMERTON LANDFILL
GASTON COUNTY, NORTH CAROLINA
JUNE 15, 2009

Sample ID	*Field Parameters*		
	pH (standard units)	*K (uS)*	*T (fahrenheit)*
MW-1	5.0	270	71
MW-2	--	--	--
MW-2D	--	--	--
MW-3	5.1	440	69
MW-4	5.7	130	72
MW-5	5.3	190	72
MW-6	6.8	400	72
MW-6D	6.5	980	72
MW-7A	6.2	770	72
MW-8	5.9	180	72
Upstream	6.4	300	72
Downstream	6.5	360	80

Notes:
Field parameters collected on June 15, 2009
SU = standard units
uS = microsiemens
K = conductivity; T = temperature
"--" = no data, wells were unable to be located due to heavy vegetative growth

rk:table:crampara.609

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
GASTON COUNTY - CLOSED CRAMERTON LANDFILL
GASTON COUNTY, NORTH CAROLINA
JUNE 15, 2009

Sample ID	*MW-1*	*MW-2*	*MW-2D*	*MW-3*	*MW-4*	*MW-5*	*MW-6*	*MW-6D*	*MW-7A*	*MW-8*	*NCGPS*
Appendix I VOC's											
Benzene	BDL	NT	NT	BDL	**1.2**	BDL	**7**	**3.3**	**6**	BDL	1
Chlorobenzene	BDL	NT	NT	BDL	9.3	BDL	1.1	0.67J	3.9	BDL	50
Chloroethane	BDL	NT	NT	BDL	BDL	BDL	2.4	BDL	BDL	BDL	2,800
1,2-Dichlorobenzene	BDL	NT	NT	BDL	0.92J	BDL	0.82J	0.41J	BDL	BDL	24
1,4-Dichlorobenzene	BDL	NT	NT	BDL	**10**	BDL	**20**	**6.4**	**12**	BDL	1.4
1,1-Dichloroethane	BDL	NT	NT	BDL	BDL	BDL	2.4	16	BDL	BDL	70
cis-1,2 Dichloroethene	BDL	NT	NT	BDL	BDL	BDL	54	52	BDL	BDL	70
Toluene	BDL	NT	NT	BDL	BDL	BDL	0.6J	BDL	BDL	BDL	1,000
Trichloroethene	BDL	NT	NT	BDL	BDL	BDL	2.3	1	BDL	BDL	2.8
Xylenes	BDL	NT	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	530
Vinyl Chloride	BDL	NT	NT	BDL	BDL	BDL	**7.1**	**2.6**	BDL	BDL	0.015
RCRA Metals											
Arsenic	5.9J	NT	NT	BDL	BDL	9.7J	BDL	BDL	10	BDL	50
Barium	550	NT	NT	120	400	1,000	1,200	190	460	42	2,000
Cadmium	4.4	NT	NT	0.95J	BDL	**14**	BDL	0.74J	**3.2**	BDL	1.75
Chromium	15	NT	NT	BDL	4.9J	38	2.2J	3J	7.3	BDL	50
Lead	**22**	NT	NT	7.7J	7.1J	**45**	6.4J	6.6J	11	8J	15
Mercury	BDL	NT	NT	BDL	BDL	0.062J	BDL	BDL	BDL	BDL	1.05

Notes:
Groundwater samples were collected on June 15, 2009 and analyzed for Appendix I VOC's and RCRA Metals by Shealy Environmental Services, Inc. in W. Columbia, SC.
BDL = below detection limit; NS = no standard;
NCGPS = North Carolina Groundwater Protection Standard
VOC's = volatile organic compounds
Bold and shade denotes above NCGQS
data presented in micrograms per liter (ug/l)
B = detected in method blank
J = estimated result <PQL and >=MDL
NT = not tetsted, wells were unable to be located due to heavy vegetative growth

rk:table:cramgw.609

TABLE 4
SURFACE WATER ANALYTICAL RESULTS
GASTON COUNTY - CLOSED CRAMERTON LANDFILL
GASTON COUNTY, NORTH CAROLINA
JUNE 15, 2009

Sample ID	*Upstream*	*Downstream*	*NCGPS*
Appendix I VOC's	BDL	BDL	NA
RCRA Metals			
Barium	96	69	2,000
Lead	5.9J	4.7J	15

Notes:
Surface water samples collected June 15, 2009 and analyzed for Appendix I VOC's and RCRA Metals by Shealy Environmental Services, Inc. in W. Columbia, SC.
BDL = below detection limit
NCGPS = North Carolina Groundwater Protection Standard
VOC's = volatile organic compounds
data presented in micrograms per liter (ug/l)
J = estimated result <PQL and >=MDL
NA = not applicable

rk:tables:cramsw.609

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 Closed Cramerton LF**

Lot Number: **KF18046**
Date Completed: **06/26/2009**

Nisreen Saikaly
Project Manager

ACCREDITED IN ACCORDANCE WITH nelac

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

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

• • • • • • • • • •

Case Narrative
Buxton Environmental
Lot Number: KF18046

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.

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: KF18046

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	MW-1	Aqueous	06/15/2009 1030	06/18/2009
002	MW-3	Aqueous	06/15/2009 1400	06/18/2009
003	MW-4	Aqueous	06/15/2009 1230	06/18/2009
004	MW-5	Aqueous	06/15/2009 1300	06/18/2009
005	MW-6	Aqueous	06/15/2009 1445	06/18/2009
006	MW-6D	Aqueous	06/15/2009 1500	06/18/2009
007	MW-7A	Aqueous	06/15/2009 1430	06/18/2009
008	MW-8	Aqueous	06/15/2009 1200	06/18/2009
009	Upstream	Aqueous	06/15/2009 1000	06/18/2009
010	Downstream	Aqueous	06/15/2009 1330	06/18/2009
011	Trip Blank	Aqueous	06/17/2009 1510	06/18/2009

(11 samples)

Executive Summary
Buxton Environmental
Lot Number: KF18046

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	MW-1	Aqueous	Arsenic	6010B	0.0059	J	mg/L	8
001	MW-1	Aqueous	Barium	6010B	0.55		mg/L	8
001	MW-1	Aqueous	Cadmium	6010B	0.0044		mg/L	8
001	MW-1	Aqueous	Chromium	6010B	0.015		mg/L	8
001	MW-1	Aqueous	Lead	6010B	0.022		mg/L	8
002	MW-3	Aqueous	Barium	6010B	0.12		mg/L	11
002	MW-3	Aqueous	Cadmium	6010B	0.00095	J	mg/L	11
002	MW-3	Aqueous	Lead	6010B	0.0077	J	mg/L	11
003	MW-4	Aqueous	Benzene	8260B	1.2		ug/L	12
003	MW-4	Aqueous	Chlorobenzene	8260B	9.3		ug/L	12
003	MW-4	Aqueous	1,2-Dichlorobenzene	8260B	0.92	J	ug/L	12
003	MW-4	Aqueous	1,4-Dichlorobenzene	8260B	10		ug/L	12
003	MW-4	Aqueous	Barium	6010B	0.40		mg/L	14
003	MW-4	Aqueous	Chromium	6010B	0.0049	J	mg/L	14
003	MW-4	Aqueous	Lead	6010B	0.0071	J	mg/L	14
004	MW-5	Aqueous	Arsenic	6010B	0.0097	J	mg/L	17
004	MW-5	Aqueous	Barium	6010B	1.0		mg/L	17
004	MW-5	Aqueous	Cadmium	6010B	0.014		mg/L	17
004	MW-5	Aqueous	Chromium	6010B	0.038		mg/L	17
004	MW-5	Aqueous	Lead	6010B	0.045		mg/L	17
004	MW-5	Aqueous	Mercury	7470A	0.000062	J	mg/L	17
005	MW-6	Aqueous	Benzene	8260B	7.0		ug/L	18
005	MW-6	Aqueous	Chlorobenzene	8260B	1.1		ug/L	18
005	MW-6	Aqueous	Chloroethane	8260B	2.4		ug/L	18
005	MW-6	Aqueous	1,2-Dichlorobenzene	8260B	0.82	J	ug/L	18
005	MW-6	Aqueous	1,4-Dichlorobenzene	8260B	20		ug/L	18
005	MW-6	Aqueous	1,1-Dichloroethane	8260B	2.4		ug/L	18
005	MW-6	Aqueous	cis-1,2-Dichloroethene	8260B	54		ug/L	18
005	MW-6	Aqueous	Toluene	8260B	0.60	J	ug/L	18
005	MW-6	Aqueous	Trichloroethene	8260B	2.3		ug/L	18
005	MW-6	Aqueous	Vinyl chloride	8260B	7.1		ug/L	19
005	MW-6	Aqueous	Barium	6010B	1.2		mg/L	20
005	MW-6	Aqueous	Chromium	6010B	0.0022	J	mg/L	20
005	MW-6	Aqueous	Lead	6010B	0.0064	J	mg/L	20
006	MW-6D	Aqueous	Benzene	8260B	3.3		ug/L	21
006	MW-6D	Aqueous	Chlorobenzene	8260B	0.67	J	ug/L	21
006	MW-6D	Aqueous	1,2-Dichlorobenzene	8260B	0.41	J	ug/L	21
006	MW-6D	Aqueous	1,4-Dichlorobenzene	8260B	6.4		ug/L	21
006	MW-6D	Aqueous	1,1-Dichloroethane	8260B	16		ug/L	21
006	MW-6D	Aqueous	cis-1,2-Dichloroethene	8260B	52		ug/L	21
006	MW-6D	Aqueous	Trichloroethene	8260B	1.0		ug/L	21
006	MW-6D	Aqueous	Vinyl chloride	8260B	2.6		ug/L	22
006	MW-6D	Aqueous	Barium	6010B	0.19		mg/L	23
006	MW-6D	Aqueous	Cadmium	6010B	0.00074	J	mg/L	23
006	MW-6D	Aqueous	Chromium	6010B	0.0030	J	mg/L	23

Executive Summary (Continued)

Lot Number: KF18046

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
006	MW-6D	Aqueous	Lead	6010B	0.0066	J	mg/L	23
007	MW-7A	Aqueous	Benzene	8260B	6.0		ug/L	24
007	MW-7A	Aqueous	Chlorobenzene	8260B	3.9		ug/L	24
007	MW-7A	Aqueous	1,4-Dichlorobenzene	8260B	12		ug/L	24
007	MW-7A	Aqueous	Arsenic	6010B	0.010		mg/L	26
007	MW-7A	Aqueous	Barium	6010B	0.46		mg/L	26
007	MW-7A	Aqueous	Cadmium	6010B	0.0032		mg/L	26
007	MW-7A	Aqueous	Chromium	6010B	0.0073		mg/L	26
007	MW-7A	Aqueous	Lead	6010B	0.011		mg/L	26
008	MW-8	Aqueous	Barium	6010B	0.042		mg/L	29
008	MW-8	Aqueous	Lead	6010B	0.0080	J	mg/L	29
009	Upstream	Aqueous	Barium	6010B	0.096		mg/L	32
009	Upstream	Aqueous	Lead	6010B	0.0059	J	mg/L	32
010	Downstream	Aqueous	Barium	6010B	0.069		mg/L	35
010	Downstream	Aqueous	Lead	6010B	0.0047	J	mg/L	35

(60 detections)

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental** Laboratory ID: **KF18046-001**

Description: **MW-1** Matrix: **Aqueous**

Date Sampled: **06/15/2009 1030**

Date Received: **06/18/2009**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/20/2009 0253	DLB		12897

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	0.81	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	0.20	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	0.10	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
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
N = Recovery is out of criteria
H = Out of holding time

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental** | Laboratory ID: **KF18046-001**

Description: **MW-1** | Matrix: **Aqueous**

Date Sampled: **06/15/2009 1030**

Date Received: **06/18/2009**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/20/2009 0253	DLB		12897

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		85	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		92	70-130

PQL = Practical quantitation limit

ND = Not detected at or above the MDL

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

B = Detected in the method blank

J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

H = Out of holding time

RCRA Metals

Client: **Buxton Environmental**
Description: **MW-1**
Date Sampled: **06/15/2009 1030**
Date Received: **06/18/2009**

Laboratory ID: **KF18046-001**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	06/25/2009 1619	BNW	06/24/2009 2200	13127
1	3005A	6010B	1	06/19/2009 2021	CDF	06/18/2009 1830	12742

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	**7440-38-2**	**6010B**	**0.0059**	**J**	**0.010**	**0.0040**	**mg/L**	**1**
Barium	**7440-39-3**	**6010B**	**0.55**		**0.025**	**0.0075**	**mg/L**	**1**
Cadmium	**7440-43-9**	**6010B**	**0.0044**		**0.0020**	**0.00060**	**mg/L**	**1**
Chromium	**7440-47-3**	**6010B**	**0.015**		**0.0050**	**0.0021**	**mg/L**	**1**
Lead	**7439-92-1**	**6010B**	**0.022**		**0.010**	**0.0019**	**mg/L**	**1**
Mercury	7439-97-6	7470A	ND		0.00010	0.000053	mg/L	1
Selenium	7782-49-2	6010B	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010B	ND		0.0050	0.00040	mg/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
H = Out of holding time

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental** | Laboratory ID: **KF18046-002**

Description: **MW-3** | Matrix: **Aqueous**

Date Sampled: **06/15/2009 1400**

Date Received: **06/18/2009**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/20/2009 0314	DLB		12897

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	0.81	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	0.20	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	0.10	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
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P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
H = Out of holding time
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** Laboratory ID: **KF18046-002**

Description: **MW-3** Matrix: **Aqueous**

Date Sampled: **06/15/2009 1400**

Date Received: **06/18/2009**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/20/2009 0314	DLB		12897

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		85	70-130
Bromofluorobenzene		97	70-130
Toluene-d8		92	70-130

PQL = Practical quantitation limit

ND = Not detected at or above the MDL

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

B = Detected in the method blank

J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

H = Out of holding time

RCRA Metals

Client: **Buxton Environmental** | Laboratory ID: **KF18046-002**

Description: **MW-3** | Matrix: **Aqueous**

Date Sampled: **06/15/2009 1400**

Date Received: **06/18/2009**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	06/25/2009 1621	BNW	06/24/2009 2200	13127
1	3005A	6010B	1	06/19/2009 2027	CDF	06/18/2009 1830	12742

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010B	ND		0.010	0.0040	mg/L	1
Barium	**7440-39-3**	**6010B**	**0.12**		**0.025**	**0.0075**	**mg/L**	**1**
Cadmium	**7440-43-9**	**6010B**	**0.00095**	**J**	**0.0020**	**0.00060**	**mg/L**	**1**
Chromium	7440-47-3	6010B	ND		0.0050	0.0021	mg/L	1
Lead	**7439-92-1**	**6010B**	**0.0077**	**J**	**0.010**	**0.0019**	**mg/L**	**1**
Mercury	7439-97-6	7470A	ND		0.00010	0.000053	mg/L	1
Selenium	7782-49-2	6010B	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010B	ND		0.0050	0.00040	mg/L	1

PQL = Practical quantitation limit

ND = Not detected at or above the MDL

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

B = Detected in the method blank

J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

H = Out of holding time

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental** | Laboratory ID: **KF18046-003**

Description: **MW-4** | Matrix: **Aqueous**

Date Sampled: **06/15/2009 1230**

Date Received: **06/18/2009**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/20/2009 0336	DLB		12897

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**	**1.2**		**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	0.81	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**	**9.3**		**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**	**0.92**	**J**	**1.0**	**0.33**	**ug/L**	**1**
1,4-Dichlorobenzene	**106-46-7**	**8260B**	**10**		**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	0.20	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	0.10	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
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
N = Recovery is out of criteria
H = Out of holding time

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental** | Laboratory ID: **KF18046-003**

Description: **MW-4** | Matrix: **Aqueous**

Date Sampled: **06/15/2009 1230**

Date Received: **06/18/2009**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/20/2009 0336	DLB		12897

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		86	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		91	70-130

PQL = Practical quantitation limit | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL | J = Estimated result < PQL and ≥ MDL | P = The RPD between two GC columns exceeds 40%

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

RCRA Metals

Client: **Buxton Environmental**
Laboratory ID: **KF18046-003**
Description: **MW-4**
Matrix: **Aqueous**
Date Sampled: **06/15/2009 1230**
Date Received: **06/18/2009**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	06/25/2009 1624	BNW	06/24/2009 2200	13127
1	3005A	6010B	1	06/19/2009 2032	CDF	06/18/2009 1830	12742

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010B	ND		0.010	0.0040	mg/L	1
Barium	**7440-39-3**	**6010B**	**0.40**		**0.025**	**0.0075**	**mg/L**	**1**
Cadmium	7440-43-9	6010B	ND		0.0020	0.00060	mg/L	1
Chromium	**7440-47-3**	**6010B**	**0.0049**	**J**	**0.0050**	**0.0021**	**mg/L**	**1**
Lead	**7439-92-1**	**6010B**	**0.0071**	**J**	**0.010**	**0.0019**	**mg/L**	**1**
Mercury	7439-97-6	7470A	ND		0.00010	0.000053	mg/L	1
Selenium	7782-49-2	6010B	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010B	ND		0.0050	0.00040	mg/L	1

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

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental** | Laboratory ID: **KF18046-004**

Description: **MW-5** | Matrix: **Aqueous**

Date Sampled: **06/15/2009 1300**

Date Received: **06/18/2009**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/20/2009 0357	DLB		12897

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	0.81	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	0.20	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	0.10	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

ND = Not detected at or above the MDL | J = Estimated result < PQL and ≥ MDL | P = The RPD between two GC columns exceeds 40%

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

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Description: **MW-5**
Date Sampled: **06/15/2009 1300**
Date Received: **06/18/2009**

Laboratory ID: **KF18046-004**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/20/2009 0357	DLB		12897

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		84	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		92	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
H = Out of holding time

RCRA Metals

Client: **Buxton Environmental**
Laboratory ID: **KF18046-004**
Description: **MW-5**
Matrix: **Aqueous**
Date Sampled: **06/15/2009 1300**
Date Received: **06/18/2009**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	06/25/2009 1626	BNW	06/24/2009 2200	13127
1	3005A	6010B	1	06/19/2009 2037	CDF	06/18/2009 1830	12742

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	**7440-38-2**	**6010B**	**0.0097**	**J**	**0.010**	**0.0040**	**mg/L**	**1**
Barium	**7440-39-3**	**6010B**	**1.0**		**0.025**	**0.0075**	**mg/L**	**1**
Cadmium	**7440-43-9**	**6010B**	**0.014**		**0.0020**	**0.00060**	**mg/L**	**1**
Chromium	**7440-47-3**	**6010B**	**0.038**		**0.0050**	**0.0021**	**mg/L**	**1**
Lead	**7439-92-1**	**6010B**	**0.045**		**0.010**	**0.0019**	**mg/L**	**1**
Mercury	**7439-97-6**	**7470A**	**0.000062**	**J**	**0.00010**	**0.000053**	**mg/L**	**1**
Selenium	7782-49-2	6010B	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010B	ND		0.0050	0.00040	mg/L	1

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

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental** | Laboratory ID: **KF18046-005**

Description: **MW-6** | Matrix: **Aqueous**

Date Sampled: **06/15/2009 1445**

Date Received: **06/18/2009**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/20/2009 0419	DLB		12897

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**	**7.0**		**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	0.81	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**	**1.1**		**1.0**	**0.33**	**ug/L**	**1**
Chloroethane	**75-00-3**	**8260B**	**2.4**		**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**	**0.82**	**J**	**1.0**	**0.33**	**ug/L**	**1**
1,4-Dichlorobenzene	**106-46-7**	**8260B**	**20**		**1.0**	**0.33**	**ug/L**	**1**
1,1-Dichloroethane	**75-34-3**	**8260B**	**2.4**		**1.0**	**0.13**	**ug/L**	**1**
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
cis-1,2-Dichloroethene	**156-59-2**	**8260B**	**54**		**1.0**	**0.12**	**ug/L**	**1**
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.20	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	0.10	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**	**0.60**	**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**	**2.3**		**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

ND = Not detected at or above the MDL | J = Estimated result < PQL and ≥ MDL | P = The RPD between two GC columns exceeds 40%

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

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental** Laboratory ID: **KF18046-005**

Description: **MW-6** Matrix: **Aqueous**

Date Sampled: **06/15/2009 1445**

Date Received: **06/18/2009**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/20/2009 0419	DLB		12897

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**	**7.1**		**1.0**	**0.054**	**ug/L**	**1**
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		87	70-130
Bromofluorobenzene		97	70-130
Toluene-d8		93	70-130

PQL = Practical quantitation limit

ND = Not detected at or above the MDL

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

B = Detected in the method blank

J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

H = Out of holding time

RCRA Metals

Client: **Buxton Environmental**
Laboratory ID: **KF18046-005**
Description: **MW-6**
Matrix: **Aqueous**
Date Sampled: **06/15/2009 1445**
Date Received: **06/18/2009**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	06/25/2009 1629	BNW	06/24/2009 2200	13127
1	3005A	6010B	1	06/19/2009 2042	CDF	06/18/2009 1830	12742

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010B	ND		0.010	0.0040	mg/L	1
Barium	**7440-39-3**	**6010B**	**1.2**		**0.025**	**0.0075**	**mg/L**	**1**
Cadmium	7440-43-9	6010B	ND		0.0020	0.00060	mg/L	1
Chromium	**7440-47-3**	**6010B**	**0.0022**	**J**	**0.0050**	**0.0021**	**mg/L**	**1**
Lead	**7439-92-1**	**6010B**	**0.0064**	**J**	**0.010**	**0.0019**	**mg/L**	**1**
Mercury	7439-97-6	7470A	ND		0.00010	0.000053	mg/L	1
Selenium	7782-49-2	6010B	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010B	ND		0.0050	0.00040	mg/L	1

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

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental** | Laboratory ID: **KF18046-006**

Description: **MW-6D** | Matrix: **Aqueous**

Date Sampled: **06/15/2009 1500**

Date Received: **06/18/2009**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/20/2009 0440	DLB		12897

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**	**3.3**		**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	0.81	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**	**0.67**	**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**	**0.41**	**J**	**1.0**	**0.33**	**ug/L**	**1**
1,4-Dichlorobenzene	**106-46-7**	**8260B**	**6.4**		**1.0**	**0.33**	**ug/L**	**1**
1,1-Dichloroethane	**75-34-3**	**8260B**	**16**		**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**	**52**		**1.0**	**0.12**	**ug/L**	**1**
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.20	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	0.10	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	**79-01-6**	**8260B**	**1.0**		**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%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
N = Recovery is out of criteria
H = Out of holding time

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental** | Laboratory ID: **KF18046-006**

Description: **MW-6D** | Matrix: **Aqueous**

Date Sampled: **06/15/2009 1500**

Date Received: **06/18/2009**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/20/2009 0440	DLB		12897

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**	**2.6**		**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		84	70-130
Bromofluorobenzene		95	70-130
Toluene-d8		92	70-130

PQL = Practical quantitation limit

ND = Not detected at or above the MDL

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

B = Detected in the method blank

J = Estimated result < PQL and ≥ MDL

N = Recovery is out of criteria

E = Quantitation of compound exceeded the calibration range

P = The RPD between two GC columns exceeds 40%

H = Out of holding time

RCRA Metals

Client: **Buxton Environmental**
Laboratory ID: **KF18046-006**
Description: **MW-6D**
Matrix: **Aqueous**
Date Sampled: **06/15/2009 1500**
Date Received: **06/18/2009**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	06/25/2009 1720	BNW	06/24/2009 2200	13127
1	3005A	6010B	1	06/19/2009 2114	CDF	06/18/2009 1830	12742

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010B	ND		0.010	0.0040	mg/L	1
Barium	**7440-39-3**	**6010B**	**0.19**		**0.025**	**0.0075**	**mg/L**	**1**
Cadmium	**7440-43-9**	**6010B**	**0.00074**	**J**	**0.0020**	**0.00060**	**mg/L**	**1**
Chromium	**7440-47-3**	**6010B**	**0.0030**	**J**	**0.0050**	**0.0021**	**mg/L**	**1**
Lead	**7439-92-1**	**6010B**	**0.0066**	**J**	**0.010**	**0.0019**	**mg/L**	**1**
Mercury	7439-97-6	7470A	ND		0.00010	0.000053	mg/L	1
Selenium	7782-49-2	6010B	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010B	ND		0.0050	0.00040	mg/L	1

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

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental** | Laboratory ID: **KF18046-007**

Description: **MW-7A** | Matrix: **Aqueous**

Date Sampled: **06/15/2009 1430**

Date Received: **06/18/2009**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/20/2009 0501	DLB		12897

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**	**6.0**		**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	0.81	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**	**3.9**		**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**	**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	ND		1.0	0.12	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.20	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	0.10	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
F = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
H = Out of holding time
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** | Laboratory ID: **KF18046-007**

Description: **MW-7A** | Matrix: **Aqueous**

Date Sampled: **06/15/2009 1430**

Date Received: **06/18/2009**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/20/2009 0501	DLB		12897

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		84	70-130
Bromofluorobenzene		95	70-130
Toluene-d8		91	70-130

PQL = Practical quantitation limit

ND = Not detected at or above the MDL

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

B = Detected in the method blank

J = Estimated result < PQL and ≥ MDL

N = Recovery is out of criteria

E = Quantitation of compound exceeded the calibration range

P = The RPD between two GC columns exceeds 40%

H = Out of holding time

RCRA Metals

Client: **Buxton Environmental**
Laboratory ID: **KF18046-007**
Description: **MW-7A**
Matrix: **Aqueous**
Date Sampled: **06/15/2009 1430**
Date Received: **06/18/2009**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	06/25/2009 1723	BNW	06/24/2009 2200	13127
1	3005A	6010B	1	06/19/2009 2119	CDF	06/18/2009 1830	12742

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	**7440-38-2**	**6010B**	**0.010**		**0.010**	**0.0040**	**mg/L**	**1**
Barium	**7440-39-3**	**6010B**	**0.46**		**0.025**	**0.0075**	**mg/L**	**1**
Cadmium	**7440-43-9**	**6010B**	**0.0032**		**0.0020**	**0.00060**	**mg/L**	**1**
Chromium	**7440-47-3**	**6010B**	**0.0073**		**0.0050**	**0.0021**	**mg/L**	**1**
Lead	**7439-92-1**	**6010B**	**0.011**		**0.010**	**0.0019**	**mg/L**	**1**
Mercury	7439-97-6	7470A	ND		0.00010	0.000053	mg/L	1
Selenium	7782-49-2	6010B	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010B	ND		0.0050	0.00040	mg/L	1

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

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **KF18046-008**
Description: **MW-8**
Matrix: **Aqueous**
Date Sampled: **06/15/2009 1200**
Date Received: **06/18/2009**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/20/2009 0522	DLB		12897

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	0.81	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	0.20	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	0.10	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
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
N = Recovery is out of criteria
H = Out of holding time

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental** | Laboratory ID: **KF18046-008**

Description: **MW-8** | Matrix: **Aqueous**

Date Sampled: **06/15/2009 1200**

Date Received: **06/18/2009**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/20/2009 0522	DLB		12897

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		83	70-130
Bromofluorobenzene		94	70-130
Toluene-d8		90	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%

N = Recovery is out of criteria

H = Out of holding time

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

RCRA Metals

Client: **Buxton Environmental** | Laboratory ID: **KF18046-008**

Description: **MW-8** | Matrix: **Aqueous**

Date Sampled: **06/15/2009 1200**

Date Received: **06/18/2009**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	06/25/2009 1725	BNW	06/24/2009 2200	13127
1	3005A	6010B	1	06/19/2009 2124	CDF	06/18/2009 1830	12742

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010B	ND		0.010	0.0040	mg/L	1
Barium	**7440-39-3**	**6010B**	**0.042**		**0.025**	**0.0075**	**mg/L**	**1**
Cadmium	7440-43-9	6010B	ND		0.0020	0.00060	mg/L	1
Chromium	7440-47-3	6010B	ND		0.0050	0.0021	mg/L	1
Lead	**7439-92-1**	**6010B**	**0.0080**	**J**	**0.010**	**0.0019**	**mg/L**	**1**
Mercury	7439-97-6	7470A	ND		0.00010	0.000053	mg/L	1
Selenium	7782-49-2	6010B	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010B	ND		0.0050	0.00040	mg/L	1

PQL = Practical quantitation limit

ND = Not detected at or above the MDL

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

B = Detected in the method blank

J = Estimated result < PQL and ≥ MDL

N = Recovery is out of criteria

E = Quantitation of compound exceeded the calibration range

P = The RPD between two GC columns exceeds 40%

H = Out of holding time

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental** | Laboratory ID: **KF18046-009**

Description: **Upstream** | Matrix: **Aqueous**

Date Sampled: **06/15/2009 1000**

Date Received: **06/18/2009**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/20/2009 0543	DLB		12897

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	0.81	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	0.20	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	0.10	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
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental** Laboratory ID: **KF18046-009**

Description: **Upstream** Matrix: **Aqueous**

Date Sampled: **06/15/2009 1000**

Date Received: **06/18/2009**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/20/2009 0543	DLB		12897

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		84	70-130
Bromofluorobenzene		95	70-130
Toluene-d8		90	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%

N = Recovery is out of criteria

H = Out of holding time

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

RCRA Metals

Client: **Buxton Environmental** | Laboratory ID: **KF18046-009**

Description: **Upstream** | Matrix: **Aqueous**

Date Sampled: **06/15/2009 1000**

Date Received: **06/18/2009**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	06/25/2009 1727	BNW	06/24/2009 2200	13127
1	3005A	6010B	1	06/19/2009 2129	CDF	06/18/2009 1830	12742

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010B	ND		0.010	0.0040	mg/L	1
Barium	**7440-39-3**	**6010B**	**0.096**		**0.025**	**0.0075**	**mg/L**	**1**
Cadmium	7440-43-9	6010B	ND		0.0020	0.00060	mg/L	1
Chromium	7440-47-3	6010B	ND		0.0050	0.0021	mg/L	1
Lead	**7439-92-1**	**6010B**	**0.0059**	**J**	**0.010**	**0.0019**	**mg/L**	**1**
Mercury	7439-97-6	7470A	ND		0.00010	0.000053	mg/L	1
Selenium	7782-49-2	6010B	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010B	ND		0.0050	0.00040	mg/L	1

PQL = Practical quantitation limit | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL | J = Estimated result < PQL and ≥ MDL | P = The RPD between two GC columns exceeds 40%

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

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental** | Laboratory ID: **KF18046-010**

Description: **Downstream** | Matrix: **Aqueous**

Date Sampled: **06/15/2009 1330**

Date Received: **06/18/2009**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/20/2009 0604	DLB		12897

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	0.81	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	0.20	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	0.10	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%
N = Recovery is out of criteria
H = Out of holding time
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: **Downstream**
Date Sampled: **06/15/2009 1330**
Date Received: **06/18/2009**

Laboratory ID: **KF18046-010**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/20/2009 0604	DLB		12897

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		83	70-130
Bromofluorobenzene		95	70-130
Toluene-d8		89	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
H = Out of holding time

RCRA Metals

Client: **Buxton Environmental**
Description: **Downstream**
Date Sampled: **06/15/2009 1330**
Date Received: **06/18/2009**

Laboratory ID: **KF18046-010**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	06/25/2009 1738	BNW	06/24/2009 2200	13127
1	3005A	6010B	1	06/19/2009 2135	CDF	06/18/2009 1830	12742

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010B	ND		0.010	0.0040	mg/L	1
Barium	**7440-39-3**	**6010B**	**0.069**		**0.025**	**0.0075**	**mg/L**	**1**
Cadmium	7440-43-9	6010B	ND		0.0020	0.00060	mg/L	1
Chromium	7440-47-3	6010B	ND		0.0050	0.0021	mg/L	1
Lead	**7439-92-1**	**6010B**	**0.0047**	**J**	**0.010**	**0.0019**	**mg/L**	**1**
Mercury	7439-97-6	7470A	ND		0.00010	0.000053	mg/L	1
Selenium	7782-49-2	6010B	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010B	ND		0.0050	0.00040	mg/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
H = Out of holding time

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental** | Laboratory ID: **KF18046-011**

Description: **Trip Blank** | Matrix: **Aqueous**

Date Sampled: **06/17/2009 1510**

Date Received: **06/18/2009**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/20/2009 0625	DLB		12897

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	0.81	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	0.20	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	0.10	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

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

B = Detected in the method blank

J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

H = Out of holding time

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **KF18046-011**
Description: **Trip Blank**
Matrix: **Aqueous**
Date Sampled: **06/17/2009 1510**
Date Received: **06/18/2009**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/20/2009 0625	DLB		12897

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		84	70-130
Bromofluorobenzene		96	70-130
Toluene-d8		91	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

F = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
H = Out of holding time

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

Number 96663

Client: Burton Environmental, Inc	Report to Contact: Kiss Klingman	Telephone No. / Fax No. / E-mail:	Quote No.:
Address: 1101 South Blvd Ste 101	Sampler's Signature: [signature]	Waybill No.:	Page 1 of 1
City: Charlotte NC; State: NC; Zip Code: 28203	Printed Name:	Analysis (Attach list if more space is needed)	
Project Name: Gaston Co - Closed Cranmerton L.F.			
Project No.:	P.O. No.:		Lot No.: KF18046

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	E-Grab Composite	Matrix: Aqueous	Matrix: Soil	Matrix: Non-Aqueous	No. of Containers by Preservative Type: Unpreserved	HCl	HNO3	HCl	NaOH	NaOH			Appl VOCs	Retra Metals							Remarks / Cooler I.D.
MW-1	6-15-09	10:30	G	✓											X	✓							
MW-3	"	14:00	G	✓											X	✓							
MW-4	"	12:30	G	✓											X	✓							
MW-5	"	13:00	G	✓											X	✓							
MW-6	"	14:45	G	✓											X	✓							
MW-6D	"	15:00	G	✓											X	✓							
MW-7A	"	14:30	G	✓											X	✓							
MW-8	"	12:00	G	✓											X	✓							
Upstream	"	10:00	G	✓											X	✓							
Downstream	"	13:30	G	✓											X	✓							
Trip Blank	—	—	G	✓											X								

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

Sample Disposal: ☐ Return to Client ☐ Disposal by Lab

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

Turn Around Time Required (Prior lab approval required for expedited TAT.): ☑ Standard ☐ Rush (Specify) Day T.A.T.

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished by: [signature]	6-18-09	10:00	1. Received by: [signature]	6.18.09	1235
2. Relinquished by: [signature]	6.18.09	13:45	2. Received by: [signature]	6-18-09	13:45
3. Relinquished by: [signature]	6-18-09	15:10	3. Laboratory received by: [signature]	6-18-09	1510

Comments:

LAB USE ONLY
Received on Ice (Circle) Yes No Ice Pack

Receipt Temp. 3.0 °C

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-AC-012 Effective Date: 08-04-02

Shealy Environmental Services, Inc.
Document Number: A-3-016
Revision Number: 6

Page 1 of
Replaces Date: 09/23/06
Effective Date: 05/29/07

Sample Receipt Checklist (SRC)

Client: Buxton Cooler Inspected by/date: DMP / 6/18/07 Lot #: KF18046

Means of receipt: ☐ SESI ☐ Client ☐ UPS ☐ FedEx ☐ Airborne Exp ☐ Other

Yes ☐	No ☑	NA ☐	1. Were custody seals present on the cooler?
Yes ☐	No ☐	NA ☑	2. If custody seals were present, were they intact and unbroken?

Cooler ID/temperature upon receipt: 3-6: ___°C ___/___°C ___/___°C ___/___°C ___/___°C ___/___°C ___/___°C ___/___°C

Method: ☐ Temperature Blank ☑ Against Bottles
Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

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

Yes ☐	No ☐	NA ☑	3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note (circle one), other:_____. (For coolers received via commercial courier, PMs are to be notified immediately.
Yes ☐	No ☐	NA ☑	4. Is the commercial courier's packing slip attached to this form?
Yes ☑	No ☐	NA ☐	5. Were proper custody procedures (relinquished/received) followed?
Yes ☑	No ☐	NA ☐	6. Were sample IDs listed?
Yes ☑	No ☐	NA ☐	7. Was collection date & time listed?
Yes ☑	No ☐	NA ☐	8. Were tests to be performed listed on the COC or was quote # provided?
Yes ☑	No ☐	NA ☐	9. Did all samples arrive in the proper containers for each test?
Yes ☑	No ☐	NA ☐	10. Did all container label information (ID, date, time) agree with COC?
Yes ☑	No ☐	NA ☐	11. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐	NA ☐	12. Was adequate sample volume available?
Yes ☐	No ☑	NA ☐	13. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑	NA ☐	14. Were any samples containers missing?
Yes ☐	No ☑	NA ☐	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/TRPH/nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☑	18. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☑	19. Were all applicable NH3/TKN/cyanide/phenol/BNA/pest/PCB/herb (<0.2mg/L) and toxicity (<0.1mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	20. Were collection temperatures documented on the COC for NC samples?

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,HNO3,HCl,NaOH) with the SR # (number)

Sample(s) -001 thru -008 were received with bubbles >6 mm in diameter.

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

Toxicity sample(s) _____ were received with TRC >0.1 mg/L and were analyzed by method 330.5

Corrective Action taken, if necessary:

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

SESI employee: _____ Date of response: _____

Comments: _____

APPENDIX B
HISTORICAL GROUNDWATER ANALYTICAL RESULTS

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

Date	*4/97*	*9/97*	*4/98*	*9/98*	*4/99*	*9/99*	*5/00*	*9/00*	*5/01*	*12/01*	*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*	*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	1.9J	BDL	BDL	BDL	BDL	700
Carbon Disulfide	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	700
RCRA Metals																										
Arsenic	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5.9J	50
Barium	450	770	680	1,100	530	1,200	BDL	BDL	BDL	126	93	40	66	240	110	110	220	290	130	470	32	70	130	67	550	2,000
Cadmium	BDL	BDL	BDL	1.1	**2**	**5**	**3**	**2**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.71J	1.2J	BDL	BDL	4.4	1.75
Chromium	BDL	18	8	26	BDL	21	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6.1	BDL	BDL	BDL	7.8	BDL	16	16	3.6J	3.7J	2.8J	15	50
Lead	7	**24**	**28**	**21**	13	**23**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4.9	**22**	15
Mercury	0.31	0.3	BDL	**1.6**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.05
Silver	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.77BJ	BDL	17.5

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

rk:table:cramhistgw.mw1

MW-2

HISTORICAL GROUNDWATER ANALYTICAL RESULTS

GASTON COUNTY - CLOSED CRAMERTON LANDFILL

GASTON COUNTY, NORTH CAROLINA

Date	*4/97*	*9/97*	*4/98*	*9/98*	*4/99*	*9/99*	*5/00*	*9/00*	*5/01*	*12/01*	*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*	*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	2.5J	BDL	BDL	BDL	NT	700
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	**1**	**1.1**	BDL	BDL	BDL	BDL	0.87J	0.8J	0.65J	0.69J	NT	1
Chlorobenzene	BDL	5.1	5.2	BDL	7	8	7	6	7.8	6.8	6.2	8.4	7.5	2.2	4.2	5	3.4	4	4.1	BDL	4.9	5	5	5.4	NT	50
Carbon Disulfide	BDL	BDL	BDL	BDL	BDL	BDL	BDL	35	BDL	BDL	BDL	BDL	8.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.12J	BDL	BDL	0.23J	NT	700
1,2-Dichlorobenzene	BDL	5.2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	24
1,4-Dichlorobenzene	**5**	BDL	**5.4**	BDL	**6**	**7**	BDL	BDL	BDL	**4.1**	**3.6**	**4.9**	BDL	BDL	**3.6**	**3.6**	**2.8**	**3.5**	**3.7**	BDL	**3.4**	**3.4**	**3.3**	**3.6**	NT	1.4
1,1-Dichloroethane	6.3	5	BDL	BDL	6	8	BDL	5	5.2	3.5	2.8	2.7	1.8	BDL	2.4	2.3	1.9	2	1.7	1.7	1.8	2	1.2	1.1	NT	70
1,1-Dichloroethene	BDL	BDL	BDL	BDL	BDL	**7**	BDL	BDL	BDL	3.4	2.7	3.2	2.8	2.5	3.6	3	2.2	3.6	2.8	3	2.8	2	2.2	2	NT	7
cis-1,2-Dichloroethene	11	8.8	BDL	6.6	7	11	BDL	7	5.6	3.9	3.2	3.2	2.9	1	1	3.7	3	BDL	2.8	2.3	2.6	2.3	2.2	2	NT	70
Styrene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4.9	NT	100
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.18J	BDL	BDL	BDL	NT	2.8
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	11	**12**	BDL	BDL	**5**	**5**	**4.3**	**3.6**	BDL	**4.1**	**2.9**	**2.5**	**3.9**	**2**	**2.7**	**2.2**	**1.8**	**1.8**	**1.5**	NT	0.015
RCRA Metals																										
Arsenic	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5.1	BDL	6.1	BDL	6	BDL	BDL	BDL	6.1	BDL	NT	50
Barium	420	520	300	490	BDL	BDL	BDL	BDL	BDL	175	262	180	200	260	300	640	220	300	370	230	220	420	390	320	NT	2,000
Cadmium	BDL	BDL	BDL	BDL	BDL	**3**	**5**	**2**	**2**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.4	BDL	**6.1**	BDL	**2.1**	1.7J	**2.8**	1.1J	NT	1.75
Chromium	BDL	11	2	2.9	BDL	12	BDL	BDL	BDL	BDL	9	BDL	BDL	BDL	7.4	14	BDL	6.5	11	BDL	3.7J	14	10	6.2	NT	50
Lead	7	**32**	**18**	**19**	BDL	**23**	BDL	BDL	BDL	BDL	7	5.7	BDL	7.1	14	**34**	4.8	9.9	**16**	BDL	2.2J	12	**25B**	**19**	NT	15
Mercury	BDL	0.4	BDL	BDL	BDL	0.2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.13	0.11	0.12	BDL	0.22	BDL	0.11	0.21	0.22	0.16	NT	1.05
Selenium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5.4	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4.1J	NT	50
Silver	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.2BJ	BDL	BDL	1.3BJ	NT	17.5

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 NCGQS

data presented in micrograms per liter (ug/l)

B = detected in method blank

J = estimated result <PQL and >=MDL

NT = not tested, well was unable to be located due to heavy vegetative cover.

rk:table:cramhistgw.mw2

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

Date	*9/00*	*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*	*NCGPS*
Appendix I VOC's																			
Acetone	BDL	94	29.9	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6.1J	BDL	BDL	BDL	NT	700
Carbon Disulfide	BDL	BDL	BDL	BDL	2.8	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.73J	BDL	BDL	1	NT	700
Chloromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.36J	BDL	BDL	BDL	NT	2.6
1,4-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.26J	0.32J	BDL	BDL	NT	1.4
1,1-Dichloroethane	BDL	BDL	2.7	3.4	3.4	2.6	BDL	2.6	3.2	3	2.7	2.7	2.8	2.2	3.4	1.8	2.4	NT	70
1,1-Dichloroethene	BDL	BDL	BDL	BDL	1.1	1.5	BDL	1.1	1.3	1.1	1.5	1.3	1.7	1.2	1.4	1.1	1.8	NT	7
cis-1,2-Dichloroethene	BDL	BDL	BDL	BDL	1.7	1.7	BDL	1.8	2	1.9	BDL	1.8	1.9	1.6	2	1.3	2	NT	70
Methylene Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.23J	0.58BJ	BDL	BDL	NT	4.6
Tetrachloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.38J	0.45J	0.28J	0.46J	NT	0.7
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.24J	0.3J	0.22J	0.24J	NT	2.8
RCRA Metals																			
Arsenic	BDL	BDL	13	11	BDL	BDL	BDL	7.7	BDL	7.1	BDL	BDL	BDL	4.7J	BDL	BDL	BDL	NT	50
Barium	BDL	BDL	86	96	38	49	43	55	29	26	BDL	BDL	27	14J	30	19J	15J	NT	2,000
Cadmium	**2**	**3**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.1	1	BDL	1.6	BDL	BDL	1.5J	BDL	NT	1.75
Chromium	BDL	BDL	13	15	BDL	5.1	5.2	6.2	BDL	BDL	BDL	BDL	BDL	BDL	3.7J	BDL	BDL	NT	50
Lead	BDL	BDL	**19**	**24**	**16**	10	8.7	14	9.5	4.5	5.4	BDL	4.8	BDL	4.3	6.3B	4.2	NT	15
Silver	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.52BJ	NT	17.5

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 NCGQS
data presented in micrograms per liter (ug/l)
B = detected in method blank
J = estimated result <PQL and >=MDL
NT = not tested, well was unable to be located due to heavy vegetative cover.

rk:table:cramhistgw.mw2D

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

Date	*4/97*	*9/97*	*4/98*	*9/98*	*4/99*	*9/99*	*5/00*	*9/00*	*5/01*	*12/01*	*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*	*NCGPS*
Appendix I VOC's																										
Acetone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	110	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.6J	8.6	BDL	BDL	BDL	700
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.19J	BDL	BDL	BDL	BDL	1
Carbon Disulfide	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.82J	0.61J	BDL	0.79J	BDL	700
Chlorobenzene	BDL	8.4	BDL	9.7	BDL	11	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.6	1.4	3.5	BDL	3	BDL	3.4	BDL	BDL	0.58J	BDL	50
1,4-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.47J	BDL	BDL	BDL	BDL	1.4
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	17	BDL	BDL	BDL	BDL	BDL	2.6	BDL	1,000
1,2,3-Trichloropropane	BDL	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	0.005
RCRA Metals																										
Arsenic	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6.4	BDL	BDL	BDL	NT	BDL	BDL	BDL	50
Barium	230	1,200	280	2,200	BDL	1,200	BDL	BDL	BDL	263	177	140	120	190	130	240	170	570	260	100	140	NT	110	180	120	2,000
Cadmium	BDL	BDL	BDL	BDL	1	**5**	**2**	1	BDL	**3**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.3	BDL	1.2	1.4J	NT	1.1J	**2.1**	0.95J	1.75
Chromium	BDL	**61**	9	42	BDL	40	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5	BDL	9	BDL	29	8.3	6.6	2.4J	NT	BDL	BDL	BDL	50
Lead	BDL	**26**	13	**18**	BDL	**21**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6.4	BDL	6.1	BDL	BDL	BDL	NT	BDL	3.5	7.7J	15
Mercury	BDL	0.3	BDL	0.32	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	BDL	1.05
Selenium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	3.2J	BDL	50
Silver	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.5BJ	NT	2.1J	1.1BJ	BDL	17.5

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 NCGQS
data presented in micrograms per liter (ug/l)
B = detected in method blank
J = estimated result <PQL and >=MDL

rk:table:cramhistgw.mw-3

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

Date	*4/97*	*9/97*	*4/98*	*9/98*	*4/99*	*9/99*	*5/00*	*9/00*	*5/01*	*12/01*	*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*	*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	5J	BDL	BDL	7J	BDL	700
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	**1**	BDL	**1.9**	**1.8**	**1.6**	**1.3**	**1.8**	**1.4**	**1.8**	**1**	**2**	**1.6**	**1.2**	1
Carbon Disulfide	11	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7.7	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.2J	BDL	BDL	0.38J	BDL	700
Chlorobenzene	BDL	BDL	BDL	BDL	7	9	BDL	BDL	6.9	5.7	6.1	3.2	4.3	3.8	7	8.5	7	9	10	10	12	8.1	10	9.8	9.3	50
Chloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.3	4	BDL	BDL	3	2	BDL	BDL	2.1	BDL	BDL	0.96J	BDL	1.4J	1.2J	BDL	2,800
1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1	BDL	1.4	1.4	1.1	1.4	1.5	1.3	1.7	1.1	1.4	1.2	0.92J	24
1,4-Dichlorobenzene	11	**12**	**6.6**	**13**	**21**	**21**	**9**	**7**	**19**	**14.3**	**15.8**	**8.4**	**11**	**11**	**13**	**13**	**11**	**13**	**13**	**11**	**14**	**9.7**	**14**	**12**	**10**	1.4
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	11	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.25J	0.72J	0.14J	BDL	BDL	70
cis-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.29J	0.18J	0.15J	0.15J	BDL	70
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.18J	BDL	BDL	BDL	BDL	1,000
Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.9	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	530
RCRA Metals																										
Barium	690	830	590	850	BDL	530	BDL	BDL	BDL	665	652	340	400	660	420	840	780	890	640	700	94	690	620	480	400	2,000
Cadmium	11	1	BDL	BDL	1	**3**	**8**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	**2.9**	**3**	1.6	1.6	**2**	1.4J	0.82J	BDL	1.75
Chromium	11	35	31	26	16	13	BDL	BDL	BDL	6	9	5	BDL	8.7	BDL	BDL	BDL	29	12	BDL	37	2.6J	5.1	10	4.9J	50
Lead	14	**30**	**34**	**16**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	9.6	BDL	BDL	BDL	BDL	4	8	BDL	BDL	**15**	BDL	10B	9.1	7.1J	15
Mercury	BDL	0.4	BDL	**3.3**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.058J	BDL	1.05
Selenium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	9	18	7.4	BDL	6.1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4.8J	BDL	50
Silver	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.6BJ	BDL	7.1	2.9BJ	BDL	17.5

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 NCGQS
data presented in micrograms per liter (ug/l)
B = detected in method blank
J = estimated result <PQL and >=MDL

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

Date	*4/97*	*9/97*	*4/98*	*9/98*	*4/99*	*9/99*	*5/00*	*9/00*	*5/01*	*12/01*	*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*	*NCGPS*
Appendix I VOC's																										
Acetone	BDL	NT	BDL	NT	BDL	NT	BDL	NT	NT	NT	NT	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	2.9J	NT	NT	NT	BDL	700
Carbon Disulfide	BDL	NT	BDL	NT	BDL	NT	BDL	NT	NT	NT	NT	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	0.097J	NT	NT	NT	BDL	700
RCRA Metals																										
Arsenic	BDL	NT	BDL	NT	BDL	NT	BDL	NT	NT	NT	NT	BDL	BDL	BDL	BDL	BDL	BDL	NT	14	BDL	BDL	NT	NT	NT	9.7J	50
Barium	220	NT	320	NT	BDL	NT	BDL	NT	NT	NT	NT	42	220	610	32	25	220	NT	**3,500**	32	1,800	NT	NT	NT	1,000	2,000
Cadmium	BDL	NT	BDL	NT	1	NT	**2**	NT	NT	NT	NT	BDL	BDL	BDL	BDL	BDL	**1.8**	NT	**3.8**	BDL	**8.9**	NT	NT	NT	**14**	1.75
Chromium	BDL	NT	12	NT	BDL	NT	BDL	NT	NT	NT	NT	BDL	5.7	18	BDL	BDL	BDL	NT	**130**	BDL	**58**	NT	NT	NT	38	50
Lead	BDL	NT	**17**	NT	BDL	NT	BDL	NT	NT	NT	NT	BDL	BDL	7.3	BDL	BDL	BDL	NT	**55**	BDL	**24**	NT	NT	NT	**45**	15
Mercury	BDL	NT	BDL	NT	BDL	NT	BDL	NT	NT	NT	NT	BDL	0.13	BDL	BDL	BDL	BDL	NT	0.36	0.13	0.17	NT	NT	NT	0.062J	1.05
Selenium	BDL	NT	BDL	NT	BDL	NT	BDL	NT	NT	NT	NT	5.8	BDL	BDL	BDL	BDL	BDL	NT	5.9	BDL	BDL	NT	NT	NT	BDL	50

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

rk:table:cramhistgw.mw5

MW-6D

HISTORICAL GROUNDWATER ANALYTICAL RESULTS

GASTON COUNTY - CLOSED CRAMERTON LANDFILL

GASTON COUNTY, NORTH CAROLINA

Date	*9/00*	*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*	*NCGPS*
Appendix I VOC's																			
Acetone	620	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.8J	BDL	BDL	BDL	BDL	700
Benzene	**9**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	**3**	**3.7**	**3.6**	**4.7**	**5**	**4.1**	**5.2**	**3.3**	1
Carbon Disulfide	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.5J	BDL	BDL	0.31J	BDL	700
Chlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.62J	0.76J	0.77J	1	0.67J	50
Chlorethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.55J	BDL	BDL	1.2J	BDL	2,800
1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.41J	0.48J	0.48J	0.66J	0.41J	24
1,4-Dichlorobenzene	**17**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	**2.4**	**3.7**	**3.5**	**4.8**	**6.3**	**6.6**	**9.3**	**6.4**	1.4
1,1-Dichloroethane	10	BDL	2.3	2.6	2.9	2.5	BDL	3	3.3	3	9.2	11	14	16	18	16	13	16	70
1,2-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	**0.8J**	BDL	BDL	BDL	BDL	0.38
1,1-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.42J	BDL	0.32J	BDL	BDL	7
cis-1,2-Dichloroethene	BDL	BDL	BDL	BDL	1.7	2.7	BDL	2.1	1.7	2.6	23	31	32	44	55	55	64	52	70
trans-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.3J	0.33J	BDL	100
1,2-Dichloropropane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	**0.77J**	BDL	**0.69J**	**0.69J**	BDL	0.51
Tetrachloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	**2.3**	**2.4**	BDL	**0.94J**	BDL	BDL	BDL	BDL	0.7
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.4J	0.29J	BDL	BDL	BDL	1,000
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2	2.6	**3.1**	**4.4**	**3.6**	2.8	1.9	1	2.8
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	**2.1**	BDL	**2.2**	**2.6**	**2.7**	**3.4**	**4.4**	**2.6**	0.015
Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.53J	0.59J	0.72J	0.81J	BDL	530
RCRA Metals																			
Barium	BDL	BDL	58	33	30	40	45	49	42	48	100	110	140	140	140	150	160	190	2,000
Cadmium	**3**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.5	1	BDL	BDL	BDL	1.3J	1.6J	0.98J	0.74J	1.75
Chromium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.072J	3J	50
Lead	**20**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4.1	6.6J	15
Mercury	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.072J	BDL	1.05
Selenium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.1J	2.7BJ	BDL	BDL	BDL	50
Silver	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.4BJ	0.87J	1.1J	BDL	BDL	17.5

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:cramhistgw.mw6D

MW-7
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
GASTON COUNTY - CLOSED CRAMERTON LANDFILL
GASTON COUNTY, NORTH CAROLINA

Date	*4/97*	*9/97*	*4/98*	*9/98*	*4/99*	*9/99*	*NCGPS*
Appendix I VOC's							
Carbon Disulfide	21	8.3	BDL	BDL	BDL	BDL	700
Chloroethane	BDL	BDL	BDL	BDL	11	BDL	2,800
1,4-Dichlorobenzene	BDL	BDL	5.5	BDL	6	7	75
1,1-Dichloroethane	28	24	26	9.6	26	41	700
1,2-Dichloroethane	**5**	**7.5**	BDL	**5.3**	BDL	12	0.38
cis-1,2-Dichloroethene	22	21	18	12	20	34	70
Methylene Chloride	BDL	BDL	BDL	**6.1**	BDL	BDL	5
RCRA Metals							
Barium	460	530	480	580	500	640	2,000
Cadmium	BDL	BDL	BDL	BDL	2	3	5
Chromium	BDL	3	BDL	BDL	BDL	13	50
Lead	BDL	9	8	BDL	BDL	BDL	15
Mercury	BDL	BDL	BDL	**3.4**	BDL	BDL	1.1

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)

rk:table:cramhistgw.mw7

MW-7A
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
GASTON COUNTY - CLOSED CRAMERTON LANDFILL
GASTON COUNTY, NORTH CAROLINA

Date	*9/00*	*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*	*NCGPS*
Appendix I VOC's																			
Acetone	96	BDL	BDL	BDL	BDL	120	**1,600**	BDL	BDL	BDL	BDL	BDL	BDL	5.1J	BDL	BDL	BDL	BDL	700
Benzene	BDL	**5.4**	**2.8**	BDL	BDL	**7.5**	**7.7**	**7.6**	**9.1**	**6**	**7.6**	**6.9**	**6.5**	**6.7**	**4.7**	**1.3**	**2.1**	**6**	1
2-Butanone	BDL	BDL	BDL	BDL	BDL	140	2,000	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4,200
Carbon Disulfide	BDL	BDL	BDL	BDL	BDL	17	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.36J	BDL	BDL	1	BDL	700
Chloroethane	BDL	BDL	3.5	4	BDL	BDL	3.9	2.6	2	BDL	2.4	BDL	BDL	0.57J	BDL	1.2J	1.1J	BDL	2,800
Chlorobenzene	BDL	BDL	BDL	BDL	2.3	3.5	BDL	4	6.6	3.9	4.4	4.1	4.7	4.6	3.2	1.4	1.6	3.9	50
1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.36J	0.3J	BDL	BDL	BDL	24
1,4-Dichlorobenzene	**6**	**11**	**6.4**	**4.1**	**9.6**	**13**	**14**	**14**	**17**	**13**	**16**	**16**	**14**	**13**	**10**	**5.7**	**6.5**	**12**	1.4
1,1-Dichloroethane	13	5.2	10.6	7.8	3.6	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.24J	1.7	1.3	1.2	BDL	70
1,2-Dichloroethane	**6**	BDL	**2.9**	**2.5**	**1.3**	**2.7**	**4.5**	**1.6**	BDL	BDL	BDL	BDL	BDL	**0.68J**	BDL	BDL	BDL	BDL	0.38
cis-1,2-Dichloroethene	9	BDL	7.6	6.1	3.4	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.45J	1.6	1.6	BDL	BDL	70
Ethylbenzene	15	7.3	BDL	BDL	13	22	48	31	32	8	BDL	BDL	BDL	BDL	BDL	BDL	0.34J	BDL	550
2-Hexanone	BDL	BDL	BDL	BDL	BDL	BDL	85	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	280
4-Methyl-2-pentanone	BDL	BDL	BDL	BDL	BDL	15	**690**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	560
Toluene	BDL	BDL	BDL	BDL	1.4	2.3	41	3.2	1.8	1	BDL	BDL	BDL	0.65J	0.71J	0.33J	0.5J	BDL	1,000
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	**2.1**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	**0.29J**	BDL	BDL	0.015
Xylenes	23	BDL	BDL	BDL	23	11	110	44	46	8.6	8.4	6.1	6.9	2.1	0.42J	BDL	0.77J	BDL	530
RCRA Metals																			
Arsenic	10	BDL	BDL	BDL	BDL	BDL	BDL	14	BDL	BDL	5	BDL	BDL	BDL	16	32	31	10	50
Barium	BDL	BDL	312	252	300	410	440	420	390	390	420	420	420	420	420	430	480	460	2,000
Cadmium	**3**	BDL	BDL	**7**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.2J	0.85J	BDL	**3.2**	1.75
Chromium	19	BDL	BDL	BDL	BDL	BDL	BDL	6.7	BDL	BDL	BDL	BDL	BDL	3.5J	2.8J	BDL	BDL	BDL	50
Lead	**22**	BDL	BDL	BDL	13	BDL	BDL	BDL	BDL	BDL	BDL	3.2	BDL	BDL	BDL	BDL	9.7	11	15
Mercury	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.055J	BDL	1.05
Selenium	BDL	BDL	BDL	6	9.6	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5.8	BDL	50
Silver	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.4BJ	BDL	BDL	1.6BJ	BDL	17.5

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:cramhistgw.mw7A

MW-8

HISTORICAL GROUNDWATER ANALYTICAL RESULTS

GASTON COUNTY - CLOSED CRAMERTON LANDFILL

GASTON COUNTY, NORTH CAROLINA

Date	*4/97*	*9/97*	*4/98*	*9/98*	*4/99*	*9/99*	*5/00*	*9/00*	*5/01*	*12/01*	*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*	*NCGPS*
Appendix I VOC's																										
Acetone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	86	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	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	BDL	BDL	BDL	BDL	0.23J	0.63J	BDL	BDL	BDL	70
Tetrachloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.15J	BDL	BDL	BDL	BDL	0.7
RCRA Metals																										
Barium	180	410	520	720	BDL	BDL	BDL	BDL	BDL	128	282	58	150	130	660	490	220	360	250	110	220	46	47	34	42	2,000
Cadmium	BDL	BDL	**20**	BDL	1	**2**	**2**	**5**	BDL	BDL	BDL	BDL	BDL	BDL	**3.4**	BDL	BDL	**1.8**	BDL	BDL	0.81J	1.1J	**2**	BDL	BDL	1.75
Chromium	BDL	19	16	26	BDL	14	BDL	22	BDL	6	21	BDL	BDL	5.6	**51**	16	7.3	21	12	6.2	16	BDL	BDL	BDL	BDL	50
Lead	7	13	**16**	**19**	BDL	BDL	BDL	12	BDL	BDL	4	BDL	BDL	BDL	11	11	3.7	3.1	BDL	BDL	2.8J	BDL	BDL	3	8J	15
Mercury	BDL	BDL	BDL	**2**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.054J	BDL	1.05
Selenium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.1J	BDL	50

Notes:

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