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

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

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

Instructions:

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

Solid Waste Monitoring Data Submittal Information

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

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 Cramerton Landfill	Cramerton Road Cramerton, NC	36-01	.0500	May 13, 2014

Environmental Status: (Check all that apply)

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

Type of data submitted: (Check all that apply)

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

Notification attached?

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

Certification

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

Ross Klingman, P.G. President 704-344-1450

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

Signature 1-6-15 Date

Affix NC Licensed/ Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 1266 GEOLOGIST CHARLES ROSS KLINGMAN

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

Facility Representative Address

C-278

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

Revised 6/2009

FIRST SEMI-ANNUAL 2014
GROUNDWATER AND SURFACE WATER MONITORING EVENT
GASTON COUNTY - CLOSED CRAMERTON LANDFILL
GASTON COUNTY, NORTH CAROLINA

Prepared for:

Mr. Ray Maxwell, PE
Gaston County Public Works
P.O. Box 1578
Gastonia, North Carolina 28053

June 3, 2014

Prepared by:

Ross Klingman, P.G.
Senior Geologist

NORTH CAROLINA LICENSED SEAL 1266 GEOLOGIST CHARLES ROSS KLINGMAN

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FIRST SEMI-ANNUAL 2014
GROUNDWATER AND SURFACE WATER MONITORING EVENT
GASTON COUNTY - CLOSED CRAMERTON LANDFILL
GASTON COUNTY, NORTH CAROLINA

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FIRST SEMI-ANNUAL 2014
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 2014 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. In addition, the North Carolina Ground Water Protection Standards (NCGPS's) in this report have been updated to reflect current standards. A summary of background information, and the methods, results, conclusions and recommendations of this investigation are outlined below.

2.0 BACKGROUND INFORMATION

Based on review of aerial photographs and discussions with Gaston County personnel, the subject facility operated from approximately 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 have been 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 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. Monitor well MW-7 was located in a small storm water detention pond and was no longer sampled once replacement well MW-7A was installed. MW-2D and MW-6D were installed to assess a deeper portion of the aquifer. Groundwater sample MW-2D indicated the presence of 68 micrograms per liter (ug/l) lead, which was above the NCGPS. Groundwater sample MW-6D indicated the presence of 20 ug/l lead and 9 ug/l benzene, which were above the NCGPS's. Groundwater sample MW-7A indicated the presence of 22 ug/l lead and 6 ug/l 1,2-dichloroethane, which were 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 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.

3.0 GROUNDWATER AND SURFACE WATER MONITORING ACTIVITIES

On May 13, 2014, Buxton Environmental, Inc. conducted the first semi-annual 2014 groundwater and surface water monitoring event at the subject site. Groundwater monitoring activities were conducted at eight shallow monitor wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7A and MW-8, and two deep monitor wells MW-2D and MW-6D. During these activities, surface water samples Upstream and Downstream were also collected.

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

The groundwater and surface water samples were analyzed for Appendix I VOC's by EPA Method 8260B, and 8 RCRA metals by EPA Methods 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.

A new lock should be place at monitor wells MW-1 and MW-6. The remaining monitor wells were locked and appeared to be in good condition during the sampling event.

4.0 GROUNDWATER FLOW DIRECTION

Based on groundwater levels obtained on May 13, 2014, 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. An upward vertical hydraulic gradient of 0.05 feet/feet was observed at nested monitor wells MW-2 and MW-2D, and a downward vertical hydraulic gradient of 0.10 feet/feet was observed at nested monitor wells MW-6 and MW-6D. Upward vertical hydraulic gradients are generally associated with groundwater discharge zones and downward vertical hydraulic gradients were generally associated with groundwater recharge zones.

5.0 GROUNDWATER AND SURFACE WATER ANALYTICAL RESULTS

The groundwater and surface water analytical results for the first semi-annual 2014 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-6, MW-6D and MW-8 indicated the presence of target constituents above the NCGPS's, which are summarized below. Groundwater sample MW-6 indicated the presence of 5.5 ug/l benzene, 20 ug/l 1,4-dichlorobenzene, 16 ug/l vinyl chloride and 1,600 ug/l barium. Groundwater sample MW-6D indicated the presence of 4.8 ug/l benzene, 15 ug/l 1,4-dichlorobenzene, 6.3 ug/l 1,1-dichloroethane and 5 ug/l vinyl chloride. Groundwater sample MW-8 indicated the presence of 3.3 tetrachloroethene. The remaining groundwater samples did not indicate target constituents above the NCGPS's.

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

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

6.0 CONCLUSIONS

On May 13, 2014, Buxton Environmental, Inc. conducted the first semi-annual 2014 groundwater and surface water 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 monitor wells MW-6, MW-6D and MW-8 indicated target constituents above the NCGPS's.
- Surface water samples Upstream and Downstream did not indicate target constituents above established NCSWWS's.

7.0 RECOMMENDATIONS

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

- Semi-annual groundwater and surface water monitoring should continue to be conducted at the Closed Cramerton Landfill. The next sampling event is anticipated to be conducted in November 2014.

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

rk:reports:cramertonrpt..514

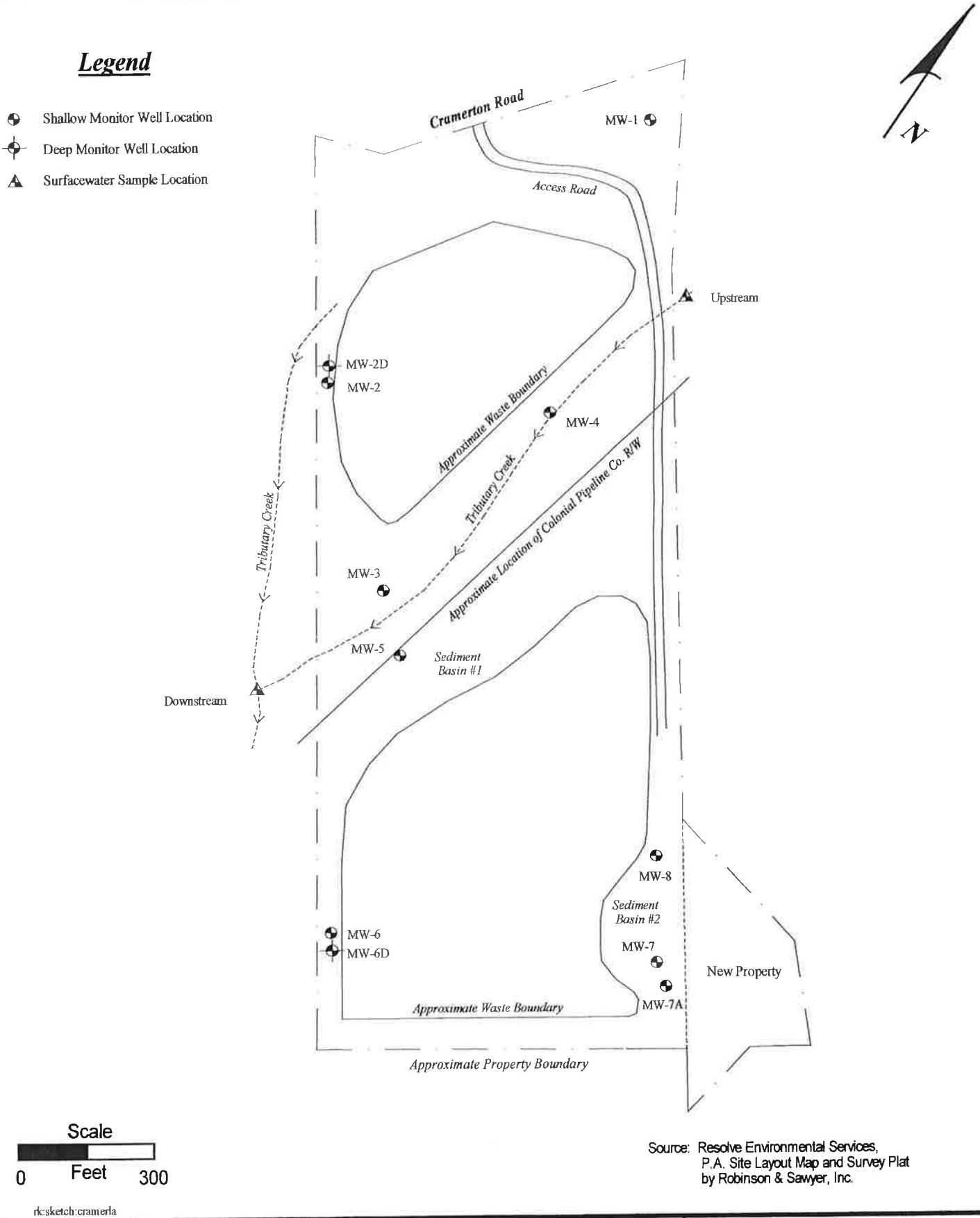
FIGURES

Scale

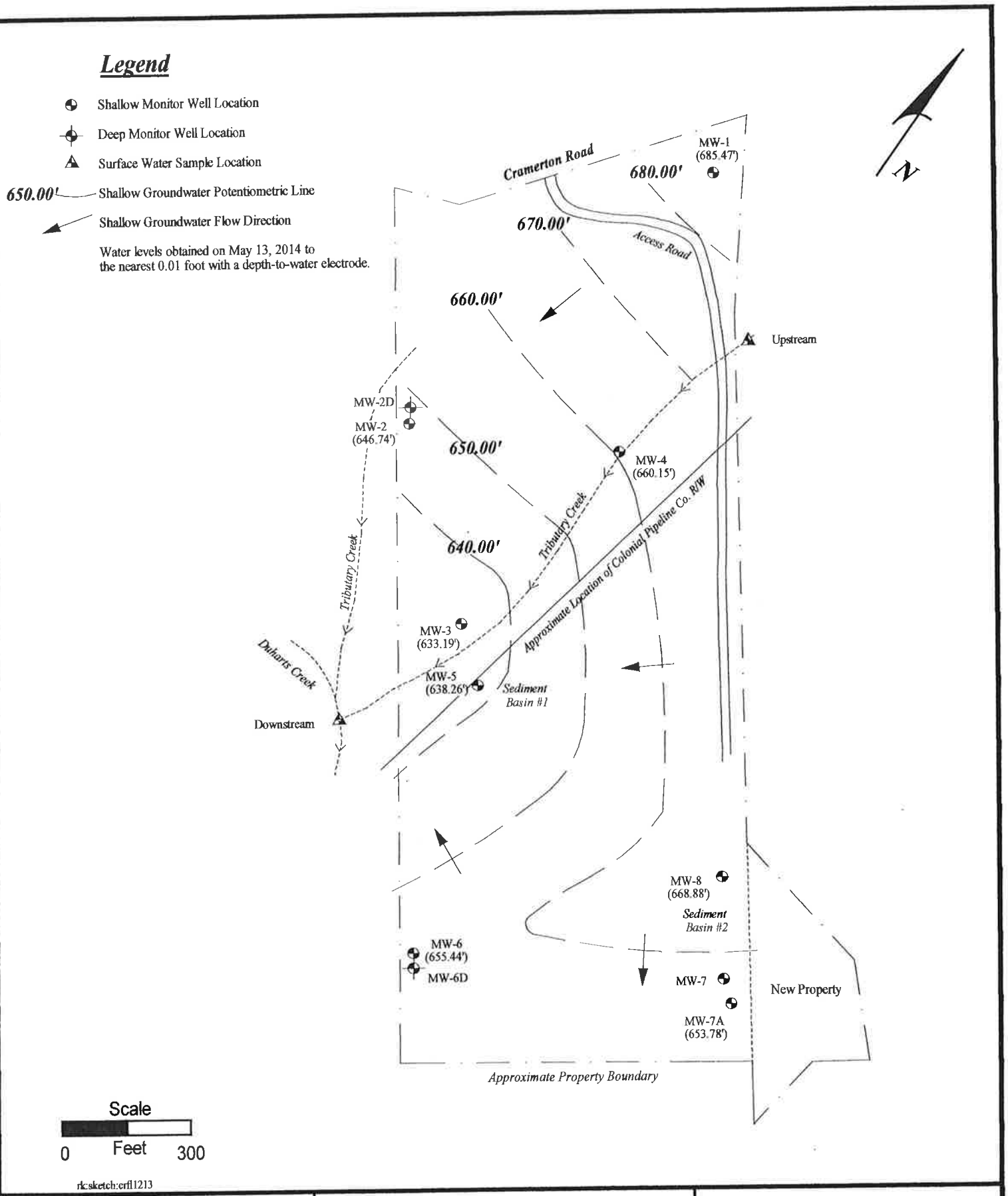
0 Feet 2,000

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 2014

Legend

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

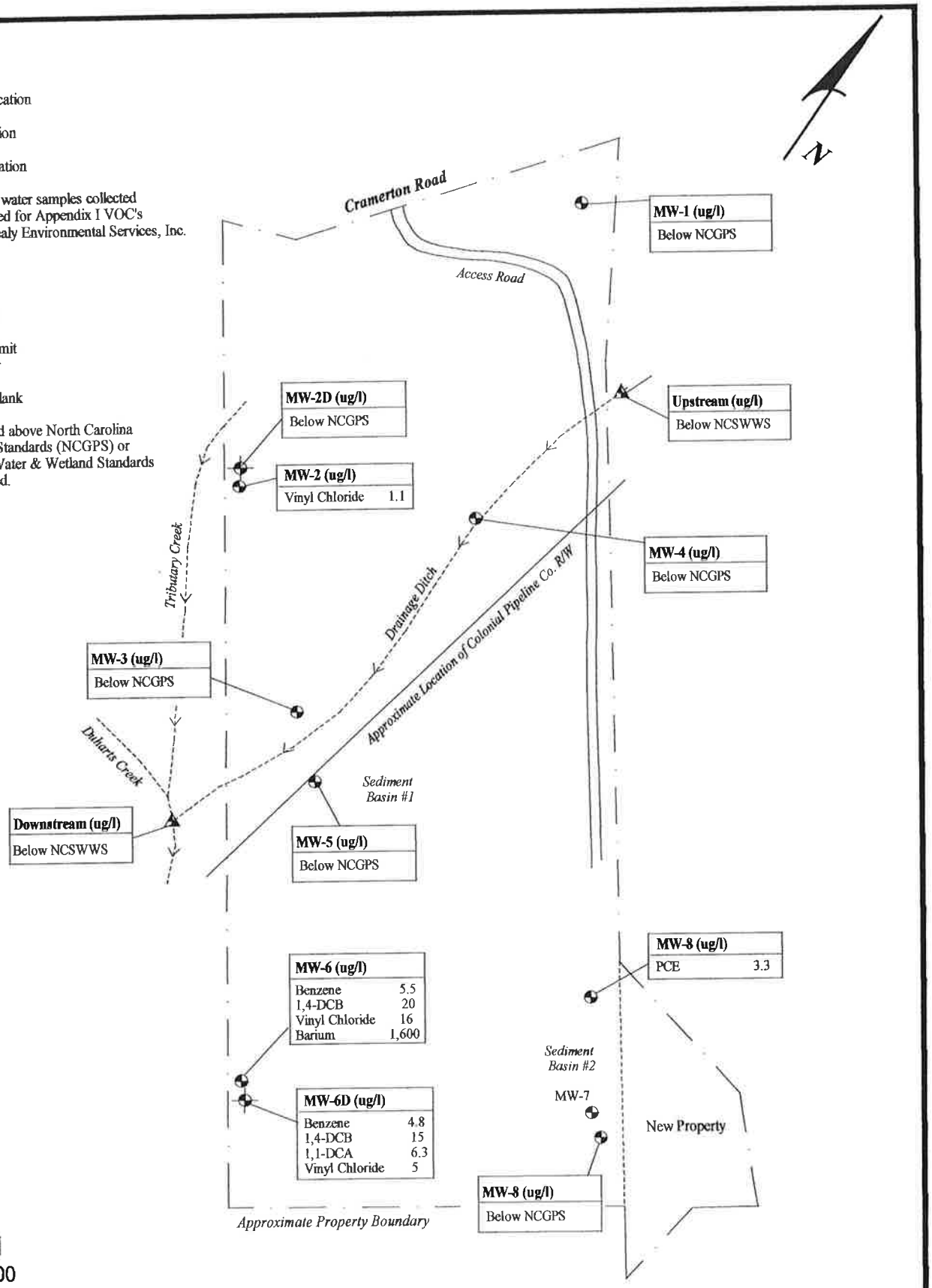
Groundwater and surface water samples collected May 13, 2014 and analyzed for Appendix I VOC's and RCRA Metals by Shealy Environmental Services, Inc.

DCB = Dichlorobenzene
DCA = Dichloroethane
DCE = Dichloroethene
PCE = Tetrachloroethene

BDL = below detection limit
ug/l = microgram per liter

B = detected in method blank

Only constituents detected above North Carolina Groundwater Protection Standards (NCGPS) or North Carolina Surface Water & Wetland Standards (NCSWWS) are 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 2014

TABLES

TABLE 1
GROUNDWATER GAUGING DATA
GASTON COUNTY - CLOSED CRAMERTON LANDFILL
GASTON COUNTY, NORTH CAROLINA
MAY 13, 2014

Well ID	*TD BTOC (ft)*	*TOC Elevation (ft)*	*DTW BTOC (ft)*	*DTW Elevation (ft)*
MW-1	23.90	702.23	16.76	685.47
MW-2	17.50	652.34	5.60	646.74
MW-2D	53.00	656.54	8.29	648.25
MW-3	15.50	643.73	10.54	633.19
MW-4	10.00	667.20	7.05	660.15
MW-5	11.70	646.88	8.62	638.26
MW-6	29.00	682.36	26.92	655.44
MW-6D	56.00	685.74	32.64	653.10
MW-7A	38.00	680.03	26.25	653.78
MW-8	26.00	671.01	2.13	668.88

Notes:
Depth to water measurements collected on May 13, 2014 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

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TABLE 2
FIELD PARAMETER DATA
GASTON COUNTY - CLOSED CRAMERTON LANDFILL
GASTON COUNTY, NORTH CAROLINA
MAY 13, 2014

Sample ID	***Field Parameters***		
	pH (standard units)	***K (uS)***	***T (fahrenheit)***
MW-1	6.66	83	68.5
MW-2	6.38	408	64.8
MW-2D	9.72	450	68.9
MW-3	6.06	186	63.7
MW-4	6.35	602	66.9
MW-5	6.26	154	66.2
MW-6	6.39	1,606	69.8
MW-6D	6.68	1,440	70.5
MW-7A	6.27	925	69.8
MW-8	6.48	179	73.0
Upstream	7.75	256	77.9
Downstream	6.81	287	67.6

Notes:
Field parameters collected on May 13, 2014 with calibrated EXTECH Instruments ExStik meter
SU = standard units
uS = microsiemens
K = conductivity; T = temperature

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TABLE 3
GROUNDWATER ANALYTICAL RESULTS
GASTON COUNTY - CLOSED CRAMERTON LANDFILL
GASTON COUNTY, NORTH CAROLINA
MAY 13, 2014

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	0.63J	BDL	BDL	0.18J	BDL	**5.5**	**4.8**	BDL	BDL	1
Chlorobenzene	BDL	4.9	BDL	BDL	2.2	BDL	1.2	1.9	BDL	BDL	50
Chloroethane	BDL	BDL	BDL	BDL	BDL	BDL	2	0.96J	BDL	BDL	3,000
Chloroform	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.94J	BDL	70
1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.2	BDL	BDL	20
1,4-Dichlorobenzene	BDL	3.4	0.42J	BDL	1.5	BDL	**20**	**15**	BDL	BDL	6
1,1-Dichloroethane	BDL	0.61J	2.2	BDL	BDL	BDL	1.2	**6.3**	BDL	BDL	6
1,1-Dichloroethene	BDL	1.3	0.91J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7
cis-1,2 Dichloroethene	BDL	1.4	1.7	BDL	BDL	BDL	13	7.8	BDL	BDL	70
trans-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.24J	BDL	BDL	100
1,2-Dichloropropane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.68J	BDL	BDL	0.6
Tetrachloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	**3.3**	0.7
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	0.4J	0.58J	BDL	BDL	600
Vinyl Chloride	BDL	**1.1**	BDL	BDL	BDL	BDL	**16**	**5**	BDL	BDL	0.03
Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.84J	BDL	BDL	500
RCRA Metals											
Arsenic	4.4BJ	4.6BJ	9.4BJ	BDL	BDL	6.1BJ	4.9BJ	BDL	9.2BJ	7.2BJ	10
Barium	27	170	13	56	68	17J	**1,600**	150	480	38	700
Cadmium	BDL	BDL	BDL	BDL	1.7J	BDL	BDL	BDL	BDL	BDL	2
Lead	BDL	2.3BJ	BDL	BDL	4.9BJ	3.8BJ	BDL	4.3BJ	BDL	2.2BJ	15
Mercury	0.04BJ	0.057BJ	0.037BJ	0.073BJ	0.073BJ	BDL	0.14B	0.037BJ	0.057BJ	0.022BJ	1

Notes:

Groundwater samples were collected on May 13, 2014 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 NCGPS

data presented in micrograms per liter (ug/l)

B = detected in method blank

J = estimated result <PQL and >=MDL (According to NCAC Title 15A Subchapter 2L North Carolina Groundwater Quality Standards (primary standard used to establish NCGPS's) dated January 1, 2010, J-flagged groundwater data exceeding the standard does not constitute an exceedance).

NT = not tetsted, due to dry well or limited water

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TABLE 4
SURFACE WATER ANALYTICAL RESULTS
GASTON COUNTY - CLOSED CRAMERTON LANDFILL
GASTON COUNTY, NORTH CAROLINA
MAY 13, 2014

Sample ID	***Upstream***	***Downstream***	***NCSWWS***
Appendix I VOC's	BDL	BDL	NA
RCRA Metals			
Arsenic	7.7BJ	BDL	50
Barium	59	58	1,000
Lead	2.9BJ	4.2BJ	25
Mercury	0.02BJ	BDL	0.021

Notes:
Surface water samples collected May 13, 2014 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
NCSWWS = North Carolina Surface Water and Wetland Standards (15A NCAC 02B) for Duharts Creek (Class WS-V Water) or are EPA National Criteria.
VOC's = volatile organic compounds
data presented in micrograms per liter (ug/l)
J = estimated result <PQL and >=MDL; B = detected in method blank
NA = not applicable
bold and shade denotes above established NCSWWS (J-flagged data not considered since estimated)

rk:tables:cramsw.514

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. - Cramerton Landfill**

Project Number: **NC**

Lot Number: **PE17006**

Date Completed: **06/02/2014**

Nisreen Saikaly
Project Manager

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

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

• • • • • • • • • •

Case Narrative
Buxton Environmental
Lot Number: PE17006

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

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

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

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

Sample Summary
Buxton Environmental
Lot Number: PE17006

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	MW-1	Aqueous	05/13/2014 1330	05/16/2014
002	MW-2	Aqueous	05/13/2014 1400	05/16/2014
003	MW-2D	Aqueous	05/13/2014 1430	05/16/2014
004	MW-3	Aqueous	05/13/2014 1500	05/16/2014
005	MW-4	Aqueous	05/13/2014 1630	05/16/2014
006	MW-5	Aqueous	05/13/2014 1600	05/16/2014
007	MW-6	Aqueous	05/13/2014 1800	05/16/2014
008	MW-6D	Aqueous	05/13/2014 1830	05/16/2014
009	MW-7A	Aqueous	05/13/2014 1730	05/16/2014
010	MW-8	Aqueous	05/13/2014 1700	05/16/2014
011	UPSTREAM	Aqueous	05/13/2014 1300	05/16/2014
012	DOWNSTREAM	Aqueous	05/13/2014 1530	05/16/2014
013	TRIP BLANK	Aqueous	05/13/2014	05/16/2014

(13 samples)

Executive Summary
Buxton Environmental
Lot Number: PE17006

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	MW-1	Aqueous	Arsenic	6010C	0.0044	BJ	mg/L	8
001	MW-1	Aqueous	Barium	6010C	0.027		mg/L	8
001	MW-1	Aqueous	Mercury	7470A	0.000040	BJ	mg/L	8
002	MW-2	Aqueous	Benzene	8260B	0.63	J	ug/L	9
002	MW-2	Aqueous	Chlorobenzene	8260B	4.9		ug/L	9
002	MW-2	Aqueous	1,4-Dichlorobenzene	8260B	3.4		ug/L	9
002	MW-2	Aqueous	1,1-Dichloroethane	8260B	0.61	J	ug/L	9
002	MW-2	Aqueous	1,1-Dichloroethene	8260B	1.3		ug/L	9
002	MW-2	Aqueous	cis-1,2-Dichloroethene	8260B	1.4		ug/L	9
002	MW-2	Aqueous	Vinyl chloride	8260B	1.1		ug/L	10
002	MW-2	Aqueous	Arsenic	6010C	0.0046	BJ	mg/L	11
002	MW-2	Aqueous	Barium	6010C	0.17		mg/L	11
002	MW-2	Aqueous	Lead	6010C	0.0023	BJ	mg/L	11
002	MW-2	Aqueous	Mercury	7470A	0.000057	BJ	mg/L	11
003	MW-2D	Aqueous	1,4-Dichlorobenzene	8260B	0.42	J	ug/L	12
003	MW-2D	Aqueous	1,1-Dichloroethane	8260B	2.2		ug/L	12
003	MW-2D	Aqueous	1,1-Dichloroethene	8260B	0.91	J	ug/L	12
003	MW-2D	Aqueous	cis-1,2-Dichloroethene	8260B	1.7		ug/L	12
003	MW-2D	Aqueous	Arsenic	6010C	0.0094	BJ	mg/L	14
003	MW-2D	Aqueous	Barium	6010C	0.013	J	mg/L	14
003	MW-2D	Aqueous	Mercury	7470A	0.000037	BJ	mg/L	14
004	MW-3	Aqueous	Barium	6010C	0.056		mg/L	17
004	MW-3	Aqueous	Mercury	7470A	0.000073	BJ	mg/L	17
005	MW-4	Aqueous	Benzene	8260B	0.18	J	ug/L	18
005	MW-4	Aqueous	Chlorobenzene	8260B	2.2		ug/L	18
005	MW-4	Aqueous	1,4-Dichlorobenzene	8260B	1.5		ug/L	18
005	MW-4	Aqueous	Barium	6010C	0.068		mg/L	20
005	MW-4	Aqueous	Cadmium	6010C	0.0017	J	mg/L	20
005	MW-4	Aqueous	Lead	6010C	0.0049	BJ	mg/L	20
005	MW-4	Aqueous	Mercury	7470A	0.000073	BJ	mg/L	20
006	MW-5	Aqueous	Arsenic	6010C	0.0061	BJ	mg/L	23
006	MW-5	Aqueous	Barium	6010C	0.017	J	mg/L	23
006	MW-5	Aqueous	Lead	6010C	0.0038	BJ	mg/L	23
007	MW-6	Aqueous	Benzene	8260B	5.5		ug/L	24
007	MW-6	Aqueous	Chlorobenzene	8260B	1.2		ug/L	24
007	MW-6	Aqueous	Chloroethane	8260B	2.0		ug/L	24
007	MW-6	Aqueous	1,4-Dichlorobenzene	8260B	20		ug/L	24
007	MW-6	Aqueous	1,1-Dichloroethane	8260B	1.2		ug/L	24
007	MW-6	Aqueous	cis-1,2-Dichloroethene	8260B	13		ug/L	24
007	MW-6	Aqueous	Toluene	8260B	0.40	J	ug/L	24
007	MW-6	Aqueous	Vinyl chloride	8260B	16		ug/L	25
007	MW-6	Aqueous	Arsenic	6010C	0.0049	BJ	mg/L	26
007	MW-6	Aqueous	Barium	6010C	1.6		mg/L	26
007	MW-6	Aqueous	Mercury	7470A	0.00014	B	mg/L	26
008	MW-6D	Aqueous	Benzene	8260B	4.8		ug/L	27

Executive Summary (Continued)

Lot Number: PE17006

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
008	MW-6D	Aqueous	Chlorobenzene	8260B	1.9		ug/L	27
008	MW-6D	Aqueous	Chloroethane	8260B	0.96	J	ug/L	27
008	MW-6D	Aqueous	1,2-Dichlorobenzene	8260B	1.2		ug/L	27
008	MW-6D	Aqueous	1,4-Dichlorobenzene	8260B	15		ug/L	27
008	MW-6D	Aqueous	1,1-Dichloroethane	8260B	6.3		ug/L	27
008	MW-6D	Aqueous	cis-1,2-Dichloroethene	8260B	7.8		ug/L	27
008	MW-6D	Aqueous	trans-1,2-Dichloroethene	8260B	0.24	J	ug/L	27
008	MW-6D	Aqueous	1,2-Dichloropropane	8260B	0.68	J	ug/L	27
008	MW-6D	Aqueous	Toluene	8260B	0.58	J	ug/L	27
008	MW-6D	Aqueous	Vinyl chloride	8260B	5.0		ug/L	28
008	MW-6D	Aqueous	Xylenes (total)	8260B	0.84	J	ug/L	28
008	MW-6D	Aqueous	Barium	6010C	0.15		mg/L	29
008	MW-6D	Aqueous	Lead	6010C	0.0043	BJ	mg/L	29
008	MW-6D	Aqueous	Mercury	7470A	0.000037	BJ	mg/L	29
009	MW-7A	Aqueous	Chloroform	8260B	0.94	J	ug/L	30
009	MW-7A	Aqueous	Arsenic	6010C	0.0092	BJ	mg/L	32
009	MW-7A	Aqueous	Barium	6010C	0.48		mg/L	32
009	MW-7A	Aqueous	Mercury	7470A	0.000057	BJ	mg/L	32
010	MW-8	Aqueous	Tetrachloroethene	8260B	3.3		ug/L	33
010	MW-8	Aqueous	Arsenic	6010C	0.0072	BJ	mg/L	35
010	MW-8	Aqueous	Barium	6010C	0.038		mg/L	35
010	MW-8	Aqueous	Lead	6010C	0.0022	BJ	mg/L	35
010	MW-8	Aqueous	Mercury	7470A	0.000022	BJ	mg/L	35
011	UPSTREAM	Aqueous	Arsenic	6010C	0.0077	BJ	mg/L	38
011	UPSTREAM	Aqueous	Barium	6010C	0.059		mg/L	38
011	UPSTREAM	Aqueous	Lead	6010C	0.0029	BJ	mg/L	38
011	UPSTREAM	Aqueous	Mercury	7470A	0.000020	BJ	mg/L	38
012	DOWNSTREAM	Aqueous	Barium	6010C	0.058		mg/L	41
012	DOWNSTREAM	Aqueous	Lead	6010C	0.0042	BJ	mg/L	41

(74 detections)

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **PE17006-001**
Description: **MW-1**
Matrix: **Aqueous**
Date Sampled: **05/13/2014 1330**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/23/2014 1515	DCS		47386

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

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

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **PE17006-001**
Description: **MW-1**
Matrix: **Aqueous**
Date Sampled: **05/13/2014 1330**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/23/2014 1515	DCS		47386

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		93	70-130
Bromofluorobenzene		104	70-130
Toluene-d8		95	70-130

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

RCRA Metals

Client: **Buxton Envlronmental**
Laboratory ID: **PE17006-001**
Description: **MW-1**
Matrix: **Aqueous**
Date Sampled: **05/13/2014 1330**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010C	1	05/23/2014 1110	BNW	05/22/2014 0944	47265
1		7470A	1	06/02/2014 1357	COH	06/02/2014 0911	47971
2	3005A	6010C	1	05/24/2014 0342	BNW	05/22/2014 0944	47265

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	**7440-38-2**	**6010C**	**0.0044**	**BJ**	**0.010**	**0.0040**	**mg/L**	**1**
Barium	**7440-39-3**	**6010C**	**0.027**		**0.025**	**0.0075**	**mg/L**	**2**
Cadmium	7440-43-9	6010C	ND		0.0020	0.00060	mg/L	1
Chromium	7440-47-3	6010C	ND		0.0050	0.0021	mg/L	2
Lead	7439-92-1	6010C	ND		0.010	0.0019	mg/L	1
Mercury	**7439-97-6**	**7470A**	**0.000040**	**BJ**	**0.00010**	**0.000015**	**mg/L**	**1**
Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	0.00040	mg/L	2

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P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **PE17006-002**
Description: **MW-2**
Matrix: **Aqueous**
Date Sampled: **05/13/2014 1400**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/23/2014 1539	DCS		47386

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	1.2	ug/L	1
Benzene	**71-43-2**	**8260B**	**0.63**	**J**	**1.0**	**0.13**	**ug/L**	**1**
Bromochloromethane	74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	**108-90-7**	**8260B**	**4.9**		**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**	**3.4**		**1.0**	**0.33**	**ug/L**	**1**
1,1-Dichloroethane	**75-34-3**	**8260B**	**0.61**	**J**	**1.0**	**0.13**	**ug/L**	**1**
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethene	**75-35-4**	**8260B**	**1.3**		**1.0**	**0.16**	**ug/L**	**1**
cis-1,2-Dichloroethene	**156-59-2**	**8260B**	**1.4**		**1.0**	**0.12**	**ug/L**	**1**
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1

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

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **PE17006-002**
Description: **MW-2**
Matrix: **Aqueous**
Date Sampled: **05/13/2014 1400**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/23/2014 1539	DCS		47386

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		5.0	1.3	ug/L	1
Vinyl chloride	**75-01-4**	**8260B**	**1.1**		**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		95	70-130
Bromofluorobenzene		106	70-130
Toluene-d8		95	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
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: **PE17006-002**
Description: **MW-2**
Matrix: **Aqueous**
Date Sampled: **05/13/2014 1400**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010C	1	05/23/2014 1135	BNW	05/22/2014 0944	47265
1		7470A	1	06/02/2014 1400	COH	06/02/2014 0911	47971
2	3005A	6010C	1	05/24/2014 0404	BNW	05/22/2014 0944	47265

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	**7440-38-2**	**6010C**	**0.0046**	**BJ**	**0.010**	**0.0040**	**mg/L**	**1**
Barium	**7440-39-3**	**6010C**	**0.17**		**0.025**	**0.0075**	**mg/L**	**2**
Cadmium	7440-43-9	6010C	ND		0.0020	0.00060	mg/L	1
Chromium	7440-47-3	6010C	ND		0.0050	0.0021	mg/L	2
Lead	**7439-92-1**	**6010C**	**0.0023**	**BJ**	**0.010**	**0.0019**	**mg/L**	**1**
Mercury	**7439-97-6**	**7470A**	**0.000057**	**BJ**	**0.00010**	**0.000015**	**mg/L**	**1**
Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	0.00040	mg/L	2

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

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **PE17006-003**
Description: **MW-2D**
Matrix: **Aqueous**
Date Sampled: **05/13/2014 1430**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/23/2014 1603	DCS		47386

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	1.2	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	0.35	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	0.83	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	**106-46-7**	**8260B**	**0.42**	**J**	**1.0**	**0.33**	**ug/L**	**1**
1,1-Dichloroethane	**75-34-3**	**8260B**	**2.2**		**1.0**	**0.13**	**ug/L**	**1**
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethene	**75-35-4**	**8260B**	**0.91**	**J**	**1.0**	**0.16**	**ug/L**	**1**
cis-1,2-Dichloroethene	**156-59-2**	**8260B**	**1.7**		**1.0**	**0.12**	**ug/L**	**1**
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1

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

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Description: **MW-2D**
Date Sampled: **05/13/2014 1430**
Date Received: **05/16/2014**

Laboratory ID: **PE17006-003**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/23/2014 1603	DCS		47386

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		89	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		92	70-130

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

RCRA Metals

Client: **Buxton Environmental**
Laboratory ID: **PE17006-003**
Description: **MW-2D**
Matrix: **Aqueous**
Date Sampled: **05/13/2014 1430**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010C	1	05/23/2014 1142	BNW	05/22/2014 0944	47265
1		7470A	1	06/02/2014 1403	COH	06/02/2014 0911	47971
2	3005A	6010C	1	05/24/2014 0412	BNW	05/22/2014 0944	47265

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	**7440-38-2**	**6010C**	**0.0094**	**BJ**	**0.010**	**0.0040**	**mg/L**	**1**
Barium	**7440-39-3**	**6010C**	**0.013**	**J**	**0.025**	**0.0075**	**mg/L**	**2**
Cadmium	7440-43-9	6010C	ND		0.0020	0.00060	mg/L	1
Chromium	7440-47-3	6010C	ND		0.0050	0.0021	mg/L	2
Lead	7439-92-1	6010C	ND		0.010	0.0019	mg/L	1
Mercury	**7439-97-6**	**7470A**	**0.000037**	**BJ**	**0.00010**	**0.000015**	**mg/L**	**1**
Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	0.00040	mg/L	2

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

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **PE17006-004**
Description: **MW-3**
Matrix: **Aqueous**
Date Sampled: **05/13/2014 1500**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/23/2014 1626	DCS		47386

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

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

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **PE17006-004**
Description: **MW-3**
Matrix: **Aqueous**
Date Sampled: **05/13/2014 1500**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/23/2014 1626	DCS		47386

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		102	70-130
Toluene-d8		90	70-130

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

RCRA Metals

Client: **Buxton Environmental**
Laboratory ID: **PE17006-004**
Description: **MW-3**
Matrix: **Aqueous**
Date Sampled: **05/13/2014 1500**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010C	1	05/23/2014 1146	BNW	05/22/2014 0944	47265
1		7470A	1	06/02/2014 1405	COH	06/02/2014 0911	47971
2	3005A	6010C	1	05/24/2014 0416	BNW	05/22/2014 0944	47265

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	ND		0.010	0.0040	mg/L	1
Barium	**7440-39-3**	**6010C**	**0.056**		**0.025**	**0.0075**	**mg/L**	**2**
Cadmium	7440-43-9	6010C	ND		0.0020	0.00060	mg/L	1
Chromium	7440-47-3	6010C	ND		0.0050	0.0021	mg/L	2
Lead	7439-92-1	6010C	ND		0.010	0.0019	mg/L	1
Mercury	**7439-97-6**	**7470A**	**0.000073**	**BJ**	**0.00010**	**0.000015**	**mg/L**	**1**
Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	0.00040	mg/L	2

PQL = Practical quantitation limit
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
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: **PE17006-005**
Description: **MW-4**
Matrix: **Aqueous**
Date Sampled: **05/13/2014 1630**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/23/2014 1651	DCS		47386

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	1.2	ug/L	1
Benzene	**71-43-2**	**8260B**	**0.18**	**J**	**1.0**	**0.13**	**ug/L**	**1**
Bromochloromethane	74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	**108-90-7**	**8260B**	**2.2**		**1.0**	**0.33**	**ug/L**	**1**
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	0.35	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	0.83	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	**106-46-7**	**8260B**	**1.5**		**1.0**	**0.33**	**ug/L**	**1**
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1

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

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **PE17006-005**
Description: **MW-4**
Matrix: **Aqueous**
Date Sampled: **05/13/2014 1630**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/23/2014 1651	DCS		47386

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

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		105	70-130
Bromofluorobenzene		106	70-130
Toluene-d8		102	70-130

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

RCRA Metals

Client: **Buxton Environmental**
Laboratory ID: **PE17006-005**
Description: **MW-4**
Matrix: **Aqueous**
Date Sampled: **05/13/2014 1630**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010C	1	05/23/2014 1150	BNW	05/22/2014 0944	47265
1		7470A	1	06/02/2014 1408	COH	06/02/2014 0911	47971
2	3005A	6010C	1	05/24/2014 0419	BNW	05/22/2014 0944	47265

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	ND		0.010	0.0040	mg/L	1
Barium	**7440-39-3**	**6010C**	**0.068**		**0.025**	**0.0075**	**mg/L**	**2**
Cadmium	**7440-43-9**	**6010C**	**0.0017**	**J**	**0.0020**	**0.00060**	**mg/L**	**1**
Chromium	7440-47-3	6010C	ND		0.0050	0.0021	mg/L	2
Lead	**7439-92-1**	**6010C**	**0.0049**	**BJ**	**0.010**	**0.0019**	**mg/L**	**1**
Mercury	**7439-97-6**	**7470A**	**0.000073**	**BJ**	**0.00010**	**0.000015**	**mg/L**	**1**
Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	0.00040	mg/L	2

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

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **PE17006-006**
Description: **MW-5**
Matrix: **Aqueous**
Date Sampled: **05/13/2014 1600**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/23/2014 1714	DCS		47386

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

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

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **PE17006-006**
Description: **MW-5**
Matrix: **Aqueous**
Date Sampled: **05/13/2014 1600**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/23/2014 1714	DCS		47386

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

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		105	70-130
Bromofluorobenzene		106	70-130
Toluene-d8		108	70-130

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

RCRA Metals

Client: **Buxton Environmental**
Laboratory ID: **PE17006-006**
Description: **MW-5**
Matrix: **Aqueous**
Date Sampled: **05/13/2014 1600**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010C	1	05/23/2014 1154	BNW	05/22/2014 0944	47265
1		7470A	1	06/02/2014 1411	COH	06/02/2014 0911	47971
2	3005A	6010C	1	05/24/2014 0423	BNW	05/22/2014 0944	47265

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	**7440-38-2**	**6010C**	**0.0061**	**BJ**	**0.010**	**0.0040**	**mg/L**	**1**
Barium	**7440-39-3**	**6010C**	**0.017**	**J**	**0.025**	**0.0075**	**mg/L**	**2**
Cadmium	7440-43-9	6010C	ND		0.0020	0.00060	mg/L	1
Chromium	7440-47-3	6010C	ND		0.0050	0.0021	mg/L	2
Lead	**7439-92-1**	**6010C**	**0.0038**	**BJ**	**0.010**	**0.0019**	**mg/L**	**1**
Mercury	7439-97-6	7470A	ND		0.00010	0.000015	mg/L	1
Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	0.00040	mg/L	2

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

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Description: **MW-6**
Date Sampled: **05/13/2014 1800**
Date Received: **05/16/2014**

Laboratory ID: **PE17006-007**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/23/2014 1738	DCS		47386

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**	**5.5**		**1.0**	**0.13**	**ug/L**	**1**
Bromochloromethane	74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	**108-90-7**	**8260B**	**1.2**		**1.0**	**0.33**	**ug/L**	**1**
Chloroethane	**75-00-3**	**8260B**	**2.0**		**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**	**20**		**1.0**	**0.33**	**ug/L**	**1**
1,1-Dichloroethane	**75-34-3**	**8260B**	**1.2**		**1.0**	**0.13**	**ug/L**	**1**
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
cis-1,2-Dichloroethene	**156-59-2**	**8260B**	**13**		**1.0**	**0.12**	**ug/L**	**1**
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	**108-88-3**	**8260B**	**0.40**	**J**	**1.0**	**0.33**	**ug/L**	**1**
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1

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

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **PE17006-007**
Description: **MW-6**
Matrix: **Aqueous**
Date Sampled: **05/13/2014 1800**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/23/2014 1738	DCS		47386

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**	**16**		**1.0**	**0.054**	**ug/L**	**1**
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		103	70-130
Bromofluorobenzene		104	70-130
Toluene-d8		103	70-130

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

RCRA Metals

Client: **Buxton Environmental**
Description: **MW-6**
Date Sampled: **05/13/2014 1800**
Date Received: **05/16/2014**

Laboratory ID: **PE17006-007**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010C	1	05/23/2014 1157	BNW	05/22/2014 0944	47265
1		7470A	1	06/02/2014 1414	COH	06/02/2014 0911	47971
2	3005A	6010C	1	05/24/2014 0427	BNW	05/22/2014 0944	47265

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	**7440-38-2**	**6010C**	**0.0049**	**BJ**	**0.010**	**0.0040**	**mg/L**	**1**
Barium	**7440-39-3**	**6010C**	**1.6**		**0.025**	**0.0075**	**mg/L**	**2**
Cadmium	7440-43-9	6010C	ND		0.0020	0.00060	mg/L	1
Chromium	7440-47-3	6010C	ND		0.0050	0.0021	mg/L	2
Lead	7439-92-1	6010C	ND		0.010	0.0019	mg/L	1
Mercury	**7439-97-6**	**7470A**	**0.00014**	**B**	**0.00010**	**0.000015**	**mg/L**	**1**
Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	0.00040	mg/L	2

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

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **PE17006-008**
Description: **MW-6D**
Matrix: **Aqueous**
Date Sampled: **05/13/2014 1830**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/23/2014 1803	DCS		47386

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	1.2	ug/L	1
Benzene	**71-43-2**	**8260B**	**4.8**		**1.0**	**0.13**	**ug/L**	**1**
Bromochloromethane	74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	**108-90-7**	**8260B**	**1.9**		**1.0**	**0.33**	**ug/L**	**1**
Chloroethane	**75-00-3**	**8260B**	**0.96**	**J**	**2.0**	**0.47**	**ug/L**	**1**
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	0.35	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	0.83	ug/L	1
1,2-Dichlorobenzene	**95-50-1**	**8260B**	**1.2**		**1.0**	**0.33**	**ug/L**	**1**
1,4-Dichlorobenzene	**106-46-7**	**8260B**	**15**		**1.0**	**0.33**	**ug/L**	**1**
1,1-Dichloroethane	**75-34-3**	**8260B**	**6.3**		**1.0**	**0.13**	**ug/L**	**1**
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
cis-1,2-Dichloroethene	**156-59-2**	**8260B**	**7.8**		**1.0**	**0.12**	**ug/L**	**1**
trans-1,2-Dichloroethene	**156-60-5**	**8260B**	**0.24**	**J**	**1.0**	**0.21**	**ug/L**	**1**
1,2-Dichloropropane	**78-87-5**	**8260B**	**0.68**	**J**	**1.0**	**0.19**	**ug/L**	**1**
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	**108-88-3**	**8260B**	**0.58**	**J**	**1.0**	**0.33**	**ug/L**	**1**
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1

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

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **PE17006-008**
Description: **MW-6D**
Matrix: **Aqueous**
Date Sampled: **05/13/2014 1830**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/23/2014 1803	DCS		47386

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**	**5.0**		**1.0**	**0.054**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**0.84**	**J**	**1.0**	**0.33**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		104	70-130
Bromofluorobenzene		105	70-130
Toluene-d8		102	70-130

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

RCRA Metals

Client: **Buxton Environmental**
Laboratory ID: **PE17006-008**
Description: **MW-6D**
Matrix: **Aqueous**
Date Sampled: **05/13/2014 1830**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010C	1	05/23/2014 1209	BNW	05/22/2014 0944	47265
1		7470A	1	06/02/2014 1421	COH	06/02/2014 0911	47971
2	3005A	6010C	1	05/24/2014 0438	BNW	05/22/2014 0944	47265

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	ND		0.010	0.0040	mg/L	1
Barium	**7440-39-3**	**6010C**	**0.15**		**0.025**	**0.0075**	**mg/L**	**2**
Cadmium	7440-43-9	6010C	ND		0.0020	0.00060	mg/L	1
Chromium	7440-47-3	6010C	ND		0.0050	0.0021	mg/L	2
Lead	**7439-92-1**	**6010C**	**0.0043**	**BJ**	**0.010**	**0.0019**	**mg/L**	**1**
Mercury	**7439-97-6**	**7470A**	**0.000037**	**BJ**	**0.00010**	**0.000015**	**mg/L**	**1**
Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	0.00040	mg/L	2

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

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **PE17006-009**
Description: **MW-7A**
Matrix: **Aqueous**
Date Sampled: **05/13/2014 1730**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/23/2014 1827	DCS		47386

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	1.2	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	**67-66-3**	**8260B**	**0.94**	**J**	**1.0**	**0.33**	**ug/L**	**1**
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	0.35	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	0.83	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1

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

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **PE17006-009**
Description: **MW-7A**
Matrix: **Aqueous**
Date Sampled: **05/13/2014 1730**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/23/2014 1827	DCS		47386

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		95	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		93	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
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: **PE17006-009**
Description: **MW-7A**
Matrix: **Aqueous**
Date Sampled: **05/13/2014 1730**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010C	1	05/23/2014 1213	BNW	05/22/2014 0944	47265
1		7470A	1	06/02/2014 1423	COH	06/02/2014 0911	47971
2	3005A	6010C	1	05/24/2014 0442	BNW	05/22/2014 0944	47265

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	**7440-38-2**	**6010C**	**0.0092**	**BJ**	**0.010**	**0.0040**	**mg/L**	**1**
Barium	**7440-39-3**	**6010C**	**0.48**		**0.025**	**0.0075**	**mg/L**	**2**
Cadmium	7440-43-9	6010C	ND		0.0020	0.00060	mg/L	1
Chromium	7440-47-3	6010C	ND		0.0050	0.0021	mg/L	2
Lead	7439-92-1	6010C	ND		0.010	0.0019	mg/L	1
Mercury	**7439-97-6**	**7470A**	**0.000057**	**BJ**	**0.00010**	**0.000015**	**mg/L**	**1**
Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	0.00040	mg/L	2

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

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **PE17006-010**
Description: **MW-8**
Matrix: **Aqueous**
Date Sampled: **05/13/2014 1700**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/23/2014 1851	DCS		47386

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	1.2	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	0.35	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	0.83	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	**127-18-4**	**8260B**	**3.3**		**1.0**	**0.13**	**ug/L**	**1**
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1

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

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **PE17006-010**
Description: **MW-8**
Matrix: **Aqueous**
Date Sampled: **05/13/2014 1700**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/23/2014 1851	DCS		47386

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		92	70-130
Bromofluorobenzene		103	70-130
Toluene-d8		87	70-130

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

RCRA Metals

Client: **Buxton Environmental**
Laboratory ID: **PE17006-010**
Description: **MW-8**
Matrix: **Aqueous**
Date Sampled: **05/13/2014 1700**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010C	1	05/23/2014 1217	BNW	05/22/2014 0944	47265
1		7470A	1	06/02/2014 1426	COH	06/02/2014 0911	47971
2	3005A	6010C	1	05/24/2014 0446	BNW	05/22/2014 0944	47265

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	**7440-38-2**	**6010C**	**0.0072**	**BJ**	**0.010**	**0.0040**	**mg/L**	**1**
Barium	**7440-39-3**	**6010C**	**0.038**		**0.025**	**0.0075**	**mg/L**	**2**
Cadmium	7440-43-9	6010C	ND		0.0020	0.00060	mg/L	1
Chromium	7440-47-3	6010C	ND		0.0050	0.0021	mg/L	2
Lead	**7439-92-1**	**6010C**	**0.0022**	**BJ**	**0.010**	**0.0019**	**mg/L**	**1**
Mercury	**7439-97-6**	**7470A**	**0.000022**	**BJ**	**0.00010**	**0.000015**	**mg/L**	**1**
Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	0.00040	mg/L	2

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

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **PE17006-011**
Description: **UPSTREAM**
Matrix: **Aqueous**
Date Sampled: **05/13/2014 1300**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/23/2014 1915	DCS		47386

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

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

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **PE17006-011**
Description: **UPSTREAM**
Matrix: **Aqueous**
Date Sampled: **05/13/2014 1300**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/23/2014 1915	DCS		47386

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		89	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		92	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
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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: **PE17006-011**
Description: **UPSTREAM**
Matrix: **Aqueous**
Date Sampled: **05/13/2014 1300**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010C	1	05/23/2014 1220	BNW	05/22/2014 0944	47265
1		7470A	1	06/02/2014 1428	COH	06/02/2014 0911	47971
2	3005A	6010C	1	05/24/2014 0449	BNW	05/22/2014 0944	47265

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	**7440-38-2**	**6010C**	**0.0077**	**BJ**	**0.010**	**0.0040**	**mg/L**	**1**
Barium	**7440-39-3**	**6010C**	**0.059**		**0.025**	**0.0075**	**mg/L**	**2**
Cadmium	7440-43-9	6010C	ND		0.0020	0.00060	mg/L	1
Chromium	7440-47-3	6010C	ND		0.0050	0.0021	mg/L	2
Lead	**7439-92-1**	**6010C**	**0.0029**	**BJ**	**0.010**	**0.0019**	**mg/L**	**1**
Mercury	**7439-97-6**	**7470A**	**0.000020**	**BJ**	**0.00010**	**0.000015**	**mg/L**	**1**
Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	0.00040	mg/L	2

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

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **PE17006-012**
Description: **DOWNSTREAM**
Matrix: **Aqueous**
Date Sampled: **05/13/2014 1530**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/23/2014 1939	DCS		47386

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

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

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **PE17006-012**
Description: **DOWNSTREAM**
Matrix: **Aqueous**
Date Sampled: **05/13/2014 1530**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/23/2014 1939	DCS		47386

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		93	70-130
Bromofluorobenzene		108	70-130
Toluene-d8		93	70-130

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

RCRA Metals

Client: **Buxton Environmental**
Laboratory ID: **PE17006-012**
Description: **DOWNSTREAM**
Matrix: **Aqueous**
Date Sampled: **05/13/2014 1530**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010C	1	05/23/2014 1224	BNW	05/22/2014 0944	47265
1		7470A	1	06/02/2014 1439	COH	06/02/2014 0911	47971
2	3005A	6010C	1	05/24/2014 0453	BNW	05/22/2014 0944	47265

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	ND		0.010	0.0040	mg/L	1
Barium	**7440-39-3**	**6010C**	**0.058**		**0.025**	**0.0075**	**mg/L**	**2**
Cadmium	7440-43-9	6010C	ND		0.0020	0.00060	mg/L	1
Chromium	7440-47-3	6010C	ND		0.0050	0.0021	mg/L	2
Lead	**7439-92-1**	**6010C**	**0.0042**	**BJ**	**0.010**	**0.0019**	**mg/L**	**1**
Mercury	7439-97-6	7470A	ND		0.00010	0.000015	mg/L	1
Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	0.00040	mg/L	2

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J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **PE17006-013**
Description: **TRIP BLANK**
Matrix: **Aqueous**
Date Sampled: **05/13/2014**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/23/2014 1230	DCS		47386

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

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

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **PE17006-013**
Description: **TRIP BLANK**
Matrix: **Aqueous**
Date Sampled: **05/13/2014**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/23/2014 1230	DCS		47386

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		88	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		90	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
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Shealy Environmental Services, Inc.
106 Vantage Point Drive
West Columbia, South Carolina 29172
Telephone No. (803) 791-9700 Fax No. (803) 791-9111
www.shealylab.com

SHEALY

Chain of Custody Record

Number 17816

Client: Burton Environmental	Report to Contact: Ross Klingman	Sampler (Printed Name): Ross Klingman	Quote No.
Address: 1101 South Blvd 5th Fl	Telephone No. / Fax No. / Email: 704-344-1452	Waybill No.	Page 1 of 1
City: Charlotte; State: NC; Zip Code: 28203	Preservative: 1. Unpres. 2. NaOH/ZnA 3. H2SO4 4. HNO3 5. HCL 6. Na Tho. 7. NaOH		Number of Containers
Project Name: Gastonia Cir - Charlotte Lawson			Bottle (See Instructions on back)
			Preservative
Project Number: NC	P.O Number		PE17006

Sample ID / Description (Containers for each sample may be combined on one line)	Date	Time	G=Grab C=Composite	GW	DW	WW	S	Other	Analysis: APPI VOC's	RCRA METALS
MW-1	5-13-14	13:30	G	✓					X	X
MW-2	"	14:00	G	✓					X	X
MW-2D	"	14:30	G	✓					X	X
MW-3	"	15:00	G	✓					X	X
MW-4	"	16:30	G	✓					X	X
MW-5	"	16:00	G	✓					X	X
MW 6	"	18:00	G	✓					X	X
MW-6D	"	13:30	G	✓					X	X
MW-7A	"	17:30	G	✓					X	X
MW-8	"	17:00	G	✓					X	X
DOWNSTREAM	"	13:00	G	✓					X	X
DOWNSTREAM	"	15:30	G	✓					X	X
TRIP BLANK	—	—	G	✓					X	X

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

Sample Disposal: ☐ Return to Client ☐ Disposal by Lab

QC Requirements (Supply): NC SOLID WASTE (NELAC) + Low DATE Flag + BOJ Flag

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

	Date	Time		Date	Time
1. Relinquished by / Sampler	5-16-14	13:30	1. Received by	5-16-14	1330
2. Relinquished by	5-16-14	1450	2. Received by	5-16-14	1450
3. Relinquished by	5-16-14	1638	3. Received by		
4. Relinquished by			4. Laboratory Received by	5-16-14	1638

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

LAB USE ONLY: Packaging (Check) ☑ Yes ☐ No ☐ Ice Pack; Receipt Temp 3.3 °C; Temp. Blank ☐ Y ☑ N

SHEALY ENVIRONMENTAL SERVICES, INC.

Sample Receipt Checklist (SRC)

Client: Buxton Env. Cooler Inspected by/date: KWP 5-17-14 Lot #: PE17006

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

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

Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt:
13.2 / 13.3 °C / / °C / / °C / / °C
Method: ☐ Temperature Blank ☑ Against Bottles IR Gun ID: #3 IR Gun Correction Factor: +0.1 °C
Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

Yes ☐	No ☐	NA ☑	3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note (circle one), other:_____. (For coolers received via commercial courier, PMs are to be notified immediately.)
Yes ☐	No ☐	NA ☑	4. Is the commercial courier's packing slip attached to this form?
Yes ☑	No ☐		5. Were proper custody procedures (relinquished/received) followed?
Yes ☐	No ☐	NA ☑	5a Were samples relinquished by client to commercial courier?
Yes ☑	No ☐		6. Were sample IDs listed on the COC?
Yes ☑	No ☐		7. Were sample IDs listed on all sample containers?
Yes ☑	No ☐		8. Was collection date & time listed on the COC?
Yes ☑	No ☐		9. Was collection date & time listed on all sample containers?
Yes ☑	No ☐		10. Did all container label information (ID, date, time) agree with the COC?
Yes ☑	No ☐		11. Were tests to be performed listed on the COC?
Yes ☑	No ☐		12. Did all samples arrive in the proper containers for each test?
Yes ☑	No ☐		13. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐		14. Was adequate sample volume available?
Yes ☑	No ☐		15. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑		16. Were any samples containers missing?
Yes ☐	No ☑		17. Were there any excess samples not listed on COC?
Yes ☐	No ☑	NA ☐	18. Were bubbles present >"pea-size" (¼" or 6mm in diameter) in any VOA vials?
Yes ☑	No ☐	NA ☐	19. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☑	20. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☑	21. Were all applicable NH3/TKN/cyanide/phenol (<0.2mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	22. Were collection temperatures documented on the COC for NC samples?
Yes ☐	No ☐	NA ☑	23. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?
Yes ☐	No ☑		24. Was the quote number used taken from the container label?

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

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

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

Sample(s)_____ were received with TRC >0.2 mg/L (If #21 is No)

SC Drinking Water Project Sample(s) pH verified to be >2 by _____ Date: _____
Sample(s) _____ were not received at a pH of >2 and were adjusted accordingly using SR#_____

Sample labels applied by: KWP Verified by: _____ Date: 5-17-14

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*	*####*	*4/10*	*11/10*	*5/11*	*11/11*	*5/12*	*12/12*	*5/13*	*12/13*	*5/14*	*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	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6,000
Carbon Disulfide	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.16J	BDL	BDL	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	BDL	7.3	BDL	BDL	BDL	6.1BJ	5.4J	BDL	**12**	4.4BJ	10
Barium	460	**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	41	22	35	57	73	160	**1,000**	260	**750**	27	700
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**	BDL	BDL	0.16J	BDL	BDL	0.76J	BDL	1.3J	BDL	BDL	2
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**	BDL	BDL	BDL	3.3J	3.2J	2.4J	**52B**	7.3	**27**	BDL	10
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**	2.2J	5.3J	BDL	3.7BJ	4.8J	10	14	**71B**	**17**	BDL	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	BDL	BDL	BDL	BDL	0.072J	BDL	BDL	BDL	BDL	0.04BJ	1
Selenium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.1BJ	BDL	BDL	BDL	BDL	BDL	BDL	20
Silver	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.77BJ	BDL	BDL	BDL	BDL	1.1BJ	BDL	BDL	BDL	BDL	BDL	BDL	20

Notes:

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

MW-2
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
GASTON COUNTY - CLOSED 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*	*11/09*	*4/10*	*11/10*	*5/11*	*11/11*	*5/12*	*12/12*	*5/13*	*12/13*	*5/14*	*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	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6,000
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1	**1.1**	BDL	BDL	BDL	BDL	0.87J	0.8J	0.65J	0.69J	NT	0.53J	0.65J	0.84J	0.31J	0.65J	0.64J	0.56J	0.4J	0.59J	0.63J	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	4.3	6.4	5.8	2.5	4.9	4.6	3.9	5.9	4.3	4.9	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	0.47J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	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	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	20
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	0.41J	3.6	4.2	1.9	3.6	2.9	3.1	3.5	3	3.4	6
1,1-Dichloroethane	**6.8**	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	0.85J	0.85J	1.3	0.36J	0.83J	0.73J	0.59J	0.73J	0.78J	0.61J	6
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	1.6	1.3	2.9	0.64J	1.7	1.7	1.2	1.3	1.5	1.3	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	1.4	1.5	2.8	0.73J	2	1.6	1.6	1.4	1.7	1.4	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	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	70
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	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3
1,2,3-Trichloropropane	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	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.99J	BDL	0.005
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	**1.3**	**1.2**	0.8J	BDL	**1.4**	**1**	0.82J	**1.2**	**1.4**	**1.1**	0.03
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	BDL	5.7J	4J	8.9J	9.8BJ	8.7BJ	BDL	BDL	7.1J	4.6BJ	10
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	260	210	320	260	150	230	160	270	260	170	700
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	**2.4**	BDL	1.1J	1J	BDL	1.8J	BDL	1.9J	1.2J	BDL	2
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	4.1	BDL	BDL	3J	BDL	BDL	BDL	3.8J	4.6J	BDL	10
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	9.8	9J	12	4.7BJ	BDL	13	BDL	**48B**	**16**	2.3BJ	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	0.2	BDL	0.11	0.21	0.22	0.16	NT	0.11	0.066J	0.27	0.075J	0.088J	0.058J	BDL	0.019J	BDL	0.057BJ	1
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	BDL	BDL	BDL	2.7BJ	2.6J	12	BDL	BDL	BDL	BDL	20
Silver	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.2BJ	BDL	BDL	1.3BJ	NT	2.6	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	20

Notes:

Groundwater samples collected on above listed dates and analyzed for Appendix I VOC's and RCRA metals.
BDL = below detection limit
NCGPS = North Carolina Groundwater Protection Standard
VOC's = volatile organic compounds
bold and shade denotes above 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*	*11/09*	*4/10*	*11/10*	*5/11*	*11/11*	*5/12*	*12/12*	*5/13*	*12/13*	*5/14*	*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	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6,000
Carbon Disulfide	BDL	BDL	BDL	BDL	2.8	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.73J	BDL	BDL	1	NT	2.1	0.1J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	700
Chloromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.36J	BDL	BDL	BDL	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3
1,4-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.26J	0.32J	BDL	BDL	NT	BDL	0.34J	0.44J	BDL	BDL	BDL	0.45J	0.36J	0.41J	0.42J	6
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	2.1	2.3	3.1	1.8	2.2	2	1.7	2.3	2.1	2.2	6
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	1.1	1.3	2.4	1.4	1.6	1.4	1.4	1.6	1.5	0.91J	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	1.4	1.7	2.2	1.6	1.6	1.5	1.6	1.6	1.6	1.7	70
Methylene Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.23J	0.58BJ	BDL	BDL	NT	BDL	0.45J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Tetrachloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.38J	0.45J	0.28J	0.46J	NT	0.34J	0.29J	BDL	0.37J	0.38J	0.26J	0.34J	0.37J	0.36J	BDL	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	0.21J	0.21J	BDL	0.22J	0.27J	0.22J	0.23J	0.18J	0.25J	BDL	3
RCRA Metals																													
Arsenic	BDL	BDL	**13**	**11**	BDL	BDL	BDL	7.7	BDL	7.1	BDL	BDL	BDL	4.7J	BDL	BDL	BDL	NT	BDL	BDL	BDL	7.7J	9.5BJ	6.6BJ	BDL	12J	5J	9.4BJ	10
Barium	BDL	BDL	86	96	38	49	43	55	29	26	BDL	BDL	27	14J	30	19J	15J	NT	16	14J	9.7J	20J	10J	11J	8.8J	1.6J	14J	13	700
Cadmium	2	**3**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.1	1	BDL	1.6	BDL	BDL	1.5J	BDL	NT	1.1	BDL	BDL	BDL	BDL	0.86J	BDL	BDL	0.93J	BDL	2
Chromium	BDL	BDL	**13**	**15**	BDL	5.1	5.2	6.2	BDL	BDL	BDL	BDL	BDL	BDL	3.7J	BDL	BDL	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.7J	BDL	10
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	2.9	7.1J	BDL	4.5BJ	BDL	4.8J	BDL	**21B**	7.3J	BDL	15
Mercury	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	BDL	BDL	0.064J	6.7J	BDL	BDL	0.022J	0.037BJ	1
Selenium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	BDL	5.5BJ	BDL	BDL	BDL	BDL	BDL	BDL	20
Silver	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.52BJ	NT	1.2	BDL	BDL	0.76BJ	BDL	0.48J	BDL	BDL	BDL	BDL	20

Notes:

Groundwater samples collected on above listed dates and analyzed for Appendix I VOC's and RCRA metals.
BDL = below detection limit
NCGPS = North Carolina Groundwater Protection Standard
VOC's = volatile organic compounds
bold and shade denotes above 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*	*11/09*	*4/10*	*11/10*	*5/11*	*11/11*	*5/12*	*12/12*	*5/13*	*12/13*	*5/14*	*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	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6,000
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.19J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	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	0.36J	0.16J	BDL	BDL	BDL	BDL	0.68J	BDL	BDL	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	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	50
1,4-DCB	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	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6
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	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	600
1,2,3-TCP	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	BDL	BDL	BDL	BDL	BDL	BDL	BDL	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	BDL	BDL	NT	5.5J	6.4BJ	6.4BJ	NT	4.8BJ	BDL	BDL	10
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	230	65	NT	120	140	47	NT	48	71	56	700
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	1.4J	BDL	NT	BDL	**4.7**	BDL	NT	0.83J	0.8J	BDL	2
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	4.8	BDL	NT	**12**	BDL	BDL	NT	4.2J	2.6J	BDL	10
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	4.6J	2.1J	NT	5.4BJ	BDL	3J	NT	BDL	2J	BDL	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	BDL	BDL	NT	BDL	0.082J	0.13	NT	0.068J	0.035J	0.073BJ	1
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	3.8J	BDL	NT	8.2BJ	BDL	2.7J	NT	BDL	BDL	BDL	20
Silver	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.5BJ	NT	2.1J	1.1BJ	BDL	2.6J	BDL	NT	1.9BJ	BDL	BDL	NT	BDL	BDL	BDL	20

Notes:

Groundwater samples collected on above listed dates and analyzed for Appendix I VOC's and RCRA metals.
BDL = below detection limit
NCGPS = North Carolina Groundwater Protection Standard
VOC's = volatile organic compounds
DCB = dichloroenzene; TCP = trichloropropane
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, due to limited water

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*	*11/09*	*4/10*	*11/10*	*5/11*	*11/11*	*5/12*	*12/12*	*5/13*	*12/13*	*5/14*	*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	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6,000
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1	BDL	**1.9**	**1.8**	**1.6**	**1.3**	**1.8**	**1.4**	**1.8**	1	**2**	**1.6**	**1.2**	0.7J	0.96J	0.74J	0.74J	0.41J	0.35J	0.46J	0.14J	0.45J	0.18J	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	0.28J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	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	8.6	6.2	12	9.6	8.5	6.8	7.1	5.8	10	2.2	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	1.3J	0.58J	0.5J	0.7J	BDL	0.72J	0.49J	0.62J	0.85J	BDL	3,000
1,2-DCB	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	BDL	0.69J	1.2	1.1	0.87J	0.76J	0.88J	0.64J	0.99J	BDL	20
1,4-DCB	**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**	5.9	**6.5**	**8.8**	**9.6**	**7**	**6.2**	5.3	5.1	**8.1**	1.5	6
1,1-DCA	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	0.13J	BDL	0.14J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6
cis-1,2-DCE	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	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	70
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.18J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	600
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	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	500
RCRA Metals																																				
Arsenic	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6.3J	BDL	10
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	410	190	620	460	200	240	440	89	400	68	700
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	BDL	0.69J	0.64J	BDL	**2.6**	1.6J	0.91J	1.2J	0.62J	1.7J	2
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	BDL	3.3J	BDL	6.9	BDL	BDL	BDL	BDL	6.7	BDL	10
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	BDL	BDL	BDL	4.7BJ	BDL	BDL	BDL	4BJ	8.7J	4.9BJ	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	BDL	BDL	BDL	BDL	0.067J	0.064J	BDL	0.015J	0.085J	0.073BJ	1
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	3.7J	BDL	BDL	6.9BJ	3.5J	4.9J	BDL	BDL	BDL	BDL	20
Silver	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.6BJ	BDL	7.1	2.9BJ	BDL	9.8	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	20

Notes:
Groundwater samples collected on above listed dates and analyzed for Appendix I VOC's and RCRA metals.
BDL = below detection limit
NCGPS = North Carolina Groundwater Protection Standard
VOC's = volatile organic compounds
DCB = dichlorobenzene; DCA = dichloroethane; DCE = dichloroethene
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.mw4

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*	*11/09*	*4/10*	*11/10*	*5/11*	*11/11*	*5/12*	*12/12*	*5/13*	*12/13*	*5/14*	*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	NT	BDL	NT	BDL	BDL	BDL	NT	BDL	BDL	BDL	6,000
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	NT	BDL	NT	BDL	BDL	BDL	NT	BDL	BDL	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	NT	6J	NT	BDL	BDL	4.3BJ	NT	BDL	BDL	6.1BJ	10
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**	NT	13J	NT	20J	37	63	NT	49	46	17J	700
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**	NT	BDL	NT	BDL	1.8J	0.88J	NT	1.6J	**2.5**	BDL	2
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**	NT	BDL	NT	2.2J	2.9J	3J	NT	BDL	BDL	BDL	10
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**	NT	2.3J	NT	BDL	BDL	12	NT	**29B**	7.8J	3.8BJ	15
Mercury	BDL	NT	BDL	NT	BDL	NT	BDL	NT	NT	NT	NT	BDL	0.1	BDL	BDL	BDL	BDL	NT	0.36	0.13	0.17	NT	NT	NT	0.062J	NT	BDL	NT	BDL	0.077J	BDL	NT	BDL	BDL	BDL	1
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	NT	BDL	NT	BDL	BDL	4.1J	NT	BDL	BDL	BDL	20
Silver	BDL	NT	BDL	NT	BDL	NT	BDL	NT	NT	NT	NT	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	BDL	NT	NT	NT	BDL	NT	BDL	NT	0.86BJ	BDL	BDL	NT	BDL	BDL	BDL	20

Notes:

Groundwater samples collected on above listed dates and analyzed for Appendix I VOC's and RCRA metals.
BDL = below detection limit
NCGPS = North Carolina Groundwater Protection Standard
VOC's = volatile organic compounds
NT = not tested, well dry
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
NT = not tested, well dry

rk:table:cramhistgw.mw5

MW-6
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*	*11/09*	*4/10*	*11/10*	*5/11*	*11/11*	*5/12*	*12/12*	*5/13*	*12/13*	*5/14*	*NCGPS*
Appendix I VOC's																																				
Acetone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	**700**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4.4J	2J	BDL	10J	BDL	BDL	10J	BDL	BDL	BDL	BDL	9.8	BDL	BDL	BDL	6,000
Benzene	**8.2**	**7.5**	**8.9**	**7.9**	**10**	**15**	**9**	**8**	**5.1**	**5.9**	**5.3**	**6.5**	**6.5**	**5.2**	**6.7**	**7.1**	**5.6**	**6.8**	**6.7**	**6.6**	**6.8**	**6.2**	**6.2**	**4.7**	**7**	**6.2**	**5.8**	**7**	**5.3**	**2.9**	**6**	**2.3**	**2**	**3.8**	**5.5**	1
BDCM	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.32J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.6
2-Butanone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	11	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4,000
Carbon Disulfide	5.8	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7.8	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.67J	BDL	BDL	0.14J	BDL	1.6	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	700
Chloroethane	BDL	BDL	BDL	BDL	12	15	BDL	BDL	12	5.6	8.3	6.5	8.6	7	4.6	4.3	4.6	4.4	4.8	4.4	3.6	3	3.1	3.2	2.4	2.8	3	1.7J	1.7J	0.69J	1.8J	1.3J	1.6J	1.7J	2	3,000
Chlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1	BDL	BDL	1.1	1.1	1.2	1.1	1	1	1.1	1.1	1.1	1.5	1	1.2	BDL	1.1	0.79J	1	1.2	50
1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.56J	0.49J	0.71J	0.73J	0.82J	BDL	0.69J	1.2	0.77J	0.85J	0.86J	0.94J	0.64J	0.82J	BDL	20
1,4-Dichlorobenzene	**12**	**13**	**16**	**14**	**19**	**21**	**17**	**15**	**15**	**13.7**	**13.5**	**15**	**17**	**14**	**14**	**15**	**13**	**18**	**20**	**17**	**19**	**18**	**20**	**21**	**20**	**19**	**20**	**27**	**19**	**21**	**19**	**20**	**16**	**18**	**20**	6
1,1-Dichloroethane	**13**	**11**	**11**	**7.8**	**12**	**20**	**10**	**11**	**11**	**9.8**	**9**	**9.4**	**7.7**	**11**	**13**	**13**	**9.5**	**7.3**	**7.8**	**6.9**	5.8	5.9	3.1	3.4	2.4	2.1	2.6	2.1	1.2	1.2	1	0.92J	1.1	0.99J	1.2	6
1,2-Dichloroethane	BDL	BDL	BDL	BDL	BDL	**5**	BDL	BDL	BDL	**2.2**	**3**	**1.6**	BDL	BDL	**2.2**	**2.4**	**1.7**	**2.1**	**2**	BDL	**1.6**	BDL	**1.6**	**1.6**	BDL	**1.5**	BDL	**2**	**1.1**	BDL	BDL	BDL	BDL	BDL	BDL	0.4
cis-1,2-DCE	**82**	**80**	**74**	**82**	66	**98**	**71**	66	66	61.4	66.8	62	54	57	54	64	40	55	60	47	47	50	52	52	54	50	39	67	39	47	57	48	26	33	13	70
trans-1,2-DCE	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.36J	0.35J	0.32J	BDL	0.27J	0.28J	BDL	0.29J	0.22J	BDL	0.26J	0.23J	0.23J	BDL	100
1,2-Dichloropropane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.45J	BDL	0.28J	0.29J	BDL	0.28J	0.25J	0.71J	0.24J	0.23J	0.21J	BDL	BDL	BDL	BDL	0.6
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.31J	0.18J	BDL	BDL	BDL	BDL	0.33J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	600
2-Hexanone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.5J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	40
Methlene Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.21J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.37J	BDL	BDL	BDL	BDL	BDL	5
Tetrachloroethene	BDL	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	BDL	BDL	BDL	0.38J	BDL	0.13J	BDL	BDL	BDL	0.7
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.5	1.1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.57J	0.38J	BDL	0.37J	0.6J	0.41J	0.61J	BDL	0.36J	1.1	BDL	BDL	0.45J	BDL	0.4J	600
Trichloroethene	**12**	**9.8**	**11**	**7.1**	**7**	**9**	**5**	BDL	BDL	BDL	BDL	1.4	2.6	BDL	BDL	BDL	BDL	1.2	BDL	1	1	0.92J	1.7	0.97J	2.3	1.2	0.66J	BDL	0.83J	0.9J	1.5	0.68J	BDL	0.48J	BDL	3
Vinyl Chloride	BDL	BDL	BDL	BDL	**12**	**15**	**14**	BDL	BDL	**5.1**	**6.3**	**5.9**	**6.6**	BDL	**7.6**	**5.8**	**6.2**	**8.2**	**6.2**	**8.1**	**7.3**	0.92J	**7**	**6.9**	**7.1**	**7.2**	**7.8**	**5.3**	**5.5**	**5.2**	**5.8**	**4**	**4.7**	**11**	**16**	0.03
Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4.1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.1	6.2	0.95J	1.2	BDL	0.35J	BDL	BDL	0.77J	2.7	0.8J	1	0.42J	0.35J	BDL	500
RCRA Metals																																				
Arsenic	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7	5.3	BDL	BDL	BDL	BDL	BDL	7.4	BDL	BDL	5J	BDL	8.2J	**11B**	10B	10.0	6.3BJ	7.5J	4.9BJ	10
Barium	**810**	**1,500**	**1,200**	**1,100**	**1,600**	**950**	**830**	**800**	660	**845**	**745**	**720**	**1,200**	**1,100**	**1,400**	**910**	**1,100**	**1,100**	**1,100**	**1,100**	**1,300**	**1,200**	**1,200**	**1,100**	**1,200**	**1,300**	**1,400**	**1,200**	**1,100**	**1,300**	**1,400**	**2,000**	**1,400**	**1,200**	**1,600**	700
Cadmium	BDL	**16**	**8**	**21**	**12**	**4**	**4**	**4**	BDL	BDL	BDL	BDL	**2.6**	BDL	**3**	BDL	BDL	BDL	BDL	BDL	BDL	1.2J	1J	1.2J	BDL	0.73J	BDL	1.2J	BDL	**3.9**	0.72J	**4.6**	2	BDL	BDL	2
Chromium	BDL	**15**	4	7.8	**28**	BDL	BDL	BDL	BDL	6	8	BDL	8.1	6.6	**21**	BDL	BDL	BDL	BDL	BDL	3J	2.5J	BDL	BDL	2.2J	2.9J	BDL	BDL	BDL	BDL	BDL	9.1B	BDL	BDL	BDL	10
Lead	7	**42**	**29**	**40**	**30**	BDL	BDL	BDL	BDL	BDL	BDL	7.6	6.8	6.2	**16**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6.4	6.4J	4.8J	5.8J	BDL	7.3BJ	4.2J	10	12	**35B**	5.5J	BDL	15
Mercury	**1.1**	**1.3**	0.8	**3.2**	**1.5**	0.4	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.13	0.12	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.06J	BDL	0.099J	BDL	0.08J	0.055J	BDL	0.14B	1
Selenium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	9	14	7.7	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.9J	BDL	BDL	BDL	BDL	14B	BDL	BDL	BDL	BDL	BDL	BDL	20
Silver	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.76B	BDL	4J	1.5BJ	BDL	11	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	20

Notes:

Groundwater samples collected on above listed dates and analyzed for Appendix I VOC's and RCRA metals.

BDL = below detection limit

NCGPS = North Carolina Groundwater Protection Standard

VOC's = volatile organic compounds

BDM = bromodichloromethane; DCE = dichloroethene

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.mw6

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*	*11/09*	*4/10*	*11/10*	*5/11*	*11/11*	*5/12*	*12/12*	*5/13*	*12/13*	*5/14*	*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	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6,000
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**	**4.5**	**5.3**	**6.5**	**4.9**	**4.1**	**4.9**	**4.1**	**4.4**	**4.1**	**4.8**	1
2-Butanone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4.1J	BDL	BDL	BDL	BDL	BDL	4,000
Carbon Disulfide	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.5J	BDL	BDL	0.31J	BDL	1.6	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	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	1	1.1	1.5	1.3	1.3	BDL	0.69J	1.6	1.7	1.9	50
Chlorethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.55J	BDL	BDL	1.2J	BDL	1.1J	1J	1.2J	BDL	BDL	1.1J	BDL	0.96J	1.1J	0.96J	3,000
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	BDL	0.78J	0.99J	0.87J	0.85J	0.78J	0.97J	1	0.96J	1.2	20
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**	**7.5**	**11**	**13**	**12**	**11**	**12**	**12**	**12**	**13**	**15**	6
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**	**11**	**10**	**16**	**9.7**	**8**	**9.6**	5.3	5.7	**6.9**	**6.3**	6
1,2-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.8J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	**1.1**	**1.1**	BDL	BDL	**1**	0.97J	BDL	0.4
1,1-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.42J	BDL	0.32J	BDL	BDL	0.23J	BDL	0.97J	BDL	BDL	BDL	BDL	BDL	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	55	62	**75**	51	39	42	28	18	11	7.8	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	0.32J	0.28J	BDL	0.31J	0.3J	0.26J	0.21J	0.29J	BDL	0.24J	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	0.67J	0.68J	**1.1**	0.64J	0.59J	0.51J	0.54J	0.67J	0.48J	0.68J	0.6
Tetrachloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	**2.3**	**2.4**	BDL	0.94J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.61J	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	BDL	BDL	BDL	0.38J	0.39J	0.38J	0.49J	BDL	0.4J	0.58J	600
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	1.3	0.79J	BDL	0.32J	0.25J	BDL	BDL	BDL	BDL	BDL	3
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**	**5.6**	**6**	**7.1**	**5.8**	**8.6**	**12**	**8.7**	**10**	**6.4**	**5**	0.03
Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.53J	0.59J	0.72J	0.81J	BDL	0.61J	BDL	BDL	1.2	0.91J	1	1.3	1.2	0.7J	0.84J	500
RCRA Metals																													
Arsenic	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	9.6J	5.4BJ	**13B**	BDL	6.3BJ	5.9J	BDL	10
Barium	BDL	BDL	58	33	30	40	45	49	42	48	100	110	140	140	140	150	160	190	170	12J	250	230	38	200	130	120	250	150	700
Cadmium	**3**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.5	1	BDL	BDL	BDL	1.3J	1.6J	0.98J	0.74J	0.65J	BDL	BDL	BDL	BDL	0.69J	0.77J	1.5J	**2.1**	4.3BJ	2
Chromium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.072J	3J	2.4J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	10
Lead	**20**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4.1	6.6J	3.2J	3.7J	BDL	BDL	BDL	11	BDL	**34B**	6.1J	BDL	15
Mercury	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.072J	BDL	BDL	BDL	BDL	BDL	0.058J	BDL	BDL	BDL	BDL	0.037BJ	1
Selenium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.1J	2.7BJ	BDL	BDL	BDL	BDL	BDL	BDL	6.9BJ	BDL	7.5J	3.1J	BDL	BDL	BDL	20
Silver	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.4BJ	0.87J	1.1J	BDL	BDL	7.2	8.2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	20

Notes:

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

rk:table: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*	*11/09*	*4/10*	*11/10*	*5/11*	*11/11*	*5/12*	*12/12*	*5/13*	*12/13*	*5/14*	*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	BDL	7.2J	13J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6,000
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**	**6.7**	**5.1**	**7.9**	**2.7**	**3.8**	**6.2**	**3.7**	**4.3**	**6.7**	BDL	1
2-Butanone	BDL	BDL	BDL	BDL	BDL	140	2,000	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4,000
Carbon Disulfide	BDL	BDL	BDL	BDL	BDL	17	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.36J	BDL	BDL	1	BDL	1.6	BDL	BDL	BDL	BDL	BDL	0.42J	BDL	BDL	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	0.96J	0.63J	0.64J	BDL	BDL	0.69J	BDL	BDL	BDL	BDL	3,000
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	4.4	3.5	5.1	2.3	3	5	3.7	4.3	8.6	BDL	50
Chloroform	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.94J	70
1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.36J	0.3J	BDL	BDL	BDL	BDL	0.33J	BDL	BDL	BDL	13	BDL	BDL	BDL	BDL	20
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**	**13**	**14**	**17**	**9.5**	**9.4**	**12**	**9.9**	**10**	**15**	BDL	6
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	0.15J	0.21J	0.36J	0.49J	0.31J	BDL	0.24J	0.15J	0.13J	BDL	6
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	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.4
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	0.53J	0.31J	0.9J	0.92J	0.93J	0.24J	0.7J	0.46J	BDL	BDL	70
Ethylbenzene	15	7.3	BDL	BDL	13	22	48	31	32	8	BDL	BDL	BDL	BDL	BDL	BDL	0.34J	BDL	BDL	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	600
2-Hexanone	BDL	BDL	BDL	BDL	BDL	BDL	**85**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	40
4-Methyl-2-pentanone	BDL	BDL	BDL	BDL	BDL	15	**690**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.5J	2.5J	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	0.43J	0.56J	BDL	0.84J	0.5J	BDL	0.43J	BDL	0.56J	BDL	600
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	**2.1**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.29J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.030
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	3.9	BDL	4.9	0.83J	0.51J	0.84J	BDL	BDL	0.47J	BDL	500
RCRA Metals																													
Arsenic	10	BDL	BDL	BDL	BDL	BDL	BDL	**14**	BDL	BDL	5	BDL	BDL	BDL	**16**	**32**	**31**	10	BDL	5.9J	BDL	**25**	**19B**	4.8BJ	**20**	**16B**	5.6J	9.2BJ	10
Barium	BDL	BDL	312	252	300	410	440	420	390	390	420	420	420	420	420	430	480	460	460	580	430	550	450	420	520	500	380	480	700
Cadmium	**3**	BDL	BDL	**7**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.2J	0.85J	BDL	**3.2**	0.97J	BDL	BDL	BDL	BDL	0.69J	2.1BJ	1.8J	BDL	BDL	2
Chromium	**19**	BDL	BDL	BDL	BDL	BDL	BDL	6.7	BDL	BDL	BDL	BDL	BDL	3.5J	2.8J	BDL	BDL	BDL	3.5J	BDL	BDL	BDL	BDL	BDL	BDL	2.7J	BDL	BDL	10
Lead	**22**	BDL	BDL	BDL	13	BDL	BDL	BDL	BDL	BDL	BDL	3.2	BDL	BDL	BDL	BDL	9.7	11	3.8J	8.1J	BDL	BDL	BDL	5.3J	BDL	**40B**	7.2J	BDL	15
Mercury	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.055J	BDL	BDL	BDL	BDL	BDL	0.7J	0.068J	BDL	BDL	BDL	0.057BJ	1
Selenium	BDL	BDL	BDL	6	9.6	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5.8	BDL	BDL	BDL	BDL	11B	BDL	BDL	BDL	BDL	BDL	BDL	20
Silver	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.4BJ	BDL	BDL	1.6BJ	BDL	7.9	BDL	BDL	BDL	BDL	0.46J	BDL	BDL	BDL	BDL	20

Notes:
Groundwater samples collected on above listed dates and analyzed for Appendix I VOC's and RCRA metals.
BDL = below detection limit
NCGPS = North Carolina Groundwater Protection Standard
VOC's = volatile organic compounds
bold and shade denotes above NCGPS
data presented in micrograms per liter (ug/l)
B = detected in method blank
J = estimated result <PQL and >=MDL
rk:table: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*	*11/09*	*4/10*	*11/10*	*5/11*	*11/11*	*5/12*	*12/12*	*5/13*	*12/13*	*5/14*	*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	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6,000
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	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6
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	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	**3.3**	0.7
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	BDL	BDL	BDL	BDL	3.8BJ	4.1BJ	9.2BJ	BDL	BDL	BDL	7.2BJ	10
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	43	37	39	40	35	38	34	48	150	38	700
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	BDL	BDL	BDL	BDL	BDL	0.88J	BDL	BDL	BDL	BDL	2
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	BDL	BDL	BDL	2.3J	BDL	BDL	BDL	BDL	9.4	BDL	10
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	2.3J	9.7J	BDL	3BJ	BDL	11	2J	**41B**	7.4J	2.2BJ	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	BDL	BDL	BDL	BDL	0.079J	BDL	BDL	0.027J	0.028J	0.022BJ	1
Selenium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.1J	BDL	BDL	BDL	BDL	3.8BJ	BDL	4.9J	3.5J	4.9J	BDL	BDL	20
Silver	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.3BJ	BDL	BDL	BDL	BDL	0.53J	BDL	20

Notes:

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