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NC DENR
Division of Waste Management - Solid Waste

# Environmental Monitoring Reporting Form

RECEIVED OCT 14 2010 SOLID WASTE SECTION

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

## Instructions:

- **Prepare one form for each individually monitored unit.**
- **Please type or print legibly.**
- Attach a notification table with values that attain or exceed NC 2L groundwater standards or NC 2B surface water standards. The notification must include a preliminary analysis of the cause and significance of each value. (e.g. naturally occurring, off-site source, pre-existing condition, etc.).
- Attach a notification table of any groundwater or surface water values that equal or exceed the reporting limits.
- Attach a notification table of any methane gas values that attain or exceed explosive gas levels. This includes any structures on or nearby the facility (NCAC 13B .1629 (4)(a)(i).
- In accordance with NC General Statutes Chapter 89C and 89E and NC Solid Waste Management Rules 15A NCAC 13B, be sure to affix a seal to the bottom of this page, when applicable.
- Send the original signed and sealed form, any tables, and Electronic Data Deliverable to: Compliance Unit, NCDENR-DWM, Solid Waste Section, 1646 Mail Service Center, Raleigh, NC 27699-1646.

## Solid Waste Monitoring Data Submittal Information

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

Buxton Environmental, Inc.

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

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

E-mail: buxtonenv@bellsouth.net

| Facility name: | Facility Address: | Facility Permit # | NC Landfill Rule: (.0500 or .1600) | Actual sampling dates (e.g., October 20-24, 2006) |
|---|---|---|---|---|
| Alamance Co. - Closed Swepsonville Landfill | Alfred Road | | .0500 | September 16, 2010 |

**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

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

Signature 10/11/10 Date

Affix NC Licensed/ Professional Geologist/Engineer Seal here:

NORTH CAROLINA LICENSED SEAL 1266 GEOLOGIST CHARLES ROSS KLINGMAN

Revised 01/2007

***SECOND SEMI-ANNUAL 2010***
***GROUNDWATER AND SURFACE WATER MONITORING EVENT***
***CLOSED SWEPSONVILLE LANDFILL***
***ALAMANCE COUNTY, NORTH CAROLINA***

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# *SECOND SEMI-ANNUAL 2010*
# *GROUNDWATER AND SURFACE WATER MONITORING EVENT*
# *CLOSED SWEPSONVILLE LANDFILL*
# *ALAMANCE COUNTY, NORTH CAROLINA*

## *1.0 INTRODUCTION*

Buxton Environmental, Inc. respectfully submits the methods and results of the second semi-annual 2010 groundwater and surface water monitoring activities conducted at the closed Swepsonville Landfill located in Alamance County, North Carolina. The purpose for conducting the assessment was to monitor water quality at the subject site. A site layout map is provided in Figure 1.

The monitoring activities were conducted in general accordance with the North Carolina Department of Environment and Natural Resources, Division of Waste Management-Solid Waste Section (NCDWM) rules, and NCDWM memorandums dated October 27, 2006, February 23, 2007 and October 16, 2007 concerning changes to laboratory detection limits and reporting requirements, and the NCDWM groundwater and surface water sampling guidelines dated April 2008. A summary of background information, and the methods, results, conclusions and recommendations of this investigation are outlined below.

## *2.0 BACKGROUND INFORMATION*

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

## *3.0 GROUNDWATER AND SURFACE WATER MONITORING ACTIVITIES*

On September 16, 2010, Buxton Environmental, Inc. conducted the second semi-annual 2010 groundwater and surface water monitoring event at the subject site. Groundwater monitoring activities were conducted at eleven monitor wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7A, MW-7B, MW-8A, MW-8B and MW-9. Two surface water samples SW-1 and SW-2 were collected from Haw Creek located to the east the landfill.

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

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

## *4.0 GROUNDWATER AND SURFACE WATER ANALYTICAL RESULTS*

The groundwater and surface water analytical results for the second semi-annual 2010 event are presented in Tables 2 and 3, respectively. Laboratory data sheets are presented in Appendix A.

### *Groundwater Analytical Results*

Groundwater samples MW-1, MW-2, MW-3, MW-4, MW-7A, MW-7B and MW-8B indicated target constituents above NCGPS's, which are summarized below.

Groundwater sample MW-1 indicated the presence of 1.5 micrograms per liter (ug/l) tetrachloroethene.

Groundwater sample MW-2 indicated the presence of 170 ug/l 1,1-dichloroethane, 2.1 ug/l 1,2-dichloroethane, 12 ug/l 1,1-dichloroethene, 98 ug/l cis-1,2-dichloroethene, 5.3 ug/l 1,2-dichloropropane, 25 ug/l tetrachloroethene, 48 ug/l trichloroethene, 13 ug/l vinyl chloride, 36B ug/l lead and 28 ug/l vanadium. A B-flag indicates that the constituent was detected in the method blank.

Groundwater sample MW-3 indicated the presence of 26 ug/l vanadium.

Groundwater sample MW-4 indicated the presence of 1.5J ug/l benzene, 12 ug/l 1,4-dichlorobenzene, 93 ug/l 1,1-dichloroethane, 420 ug/l cis-1,2-dichlroethene, 2.3 ug/l 1,2-dichloropropane, 33 ug/l vinyl chloride and 90B ug/l cobalt. A J-flag indicates an estimated result (<Solid Waste Section Limit (SWSL) (a.k.a Practical Quantitation Limit (PQL)) and >=Method Detection Limit (MDL)).

Groundwater sample MW-7A indicated the presence of 7.2 ug/l benzene, 30 ug/l 1,1-dichloroethane, 15 ug/l tetrachloroethene, 12 ug/l trichloroethene and 6.2 ug/l vinyl chloride.

Groundwater sample MW-7B indicated the presence of 9.9 ug/l benzene, 42 ug/l 1,1-dichloroethane, 78 ug/l cis-1,2-dichloroethene, 13 ug/l tetrachloroethene, 18 ug/l trichloroethene and 8.6 ug/l vinyl chloroide.

Groundwater sample MW-8B indicated the presence of 15 ug/l vanadium.

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

*Surface Water Analytical Results*

Surface water samples SW-1 and SW-2 did not indicate target constituents above NCGPS's.

*Quality Control Analytical Results*

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

## *5.0 CONCLUSIONS*

On September 16, 2010, Buxton Environmental, Inc. conducted the second semi-annual 2010 groundwater and surface water monitoring activities at the closed Swepsonville Landfill located in Alamance County, North Carolina. A summary of the findings of this investigation is provided below.

- Groundwater samples collected at MW-1, MW-2, MW-3, MW-4, MW-7A, MW-7B and MW-8B indicated target constituents above NCGPS's.

- The surface water samples did not indicate target constituents above the NCGPS's.

## *6.0 RECOMMENDATIONS*

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

- Semi-annual groundwater and surface water monitoring should continue to be conducted at the closed Swepsonville Landfill. The next sampling event is anticipated to be conducted in March 2011.

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

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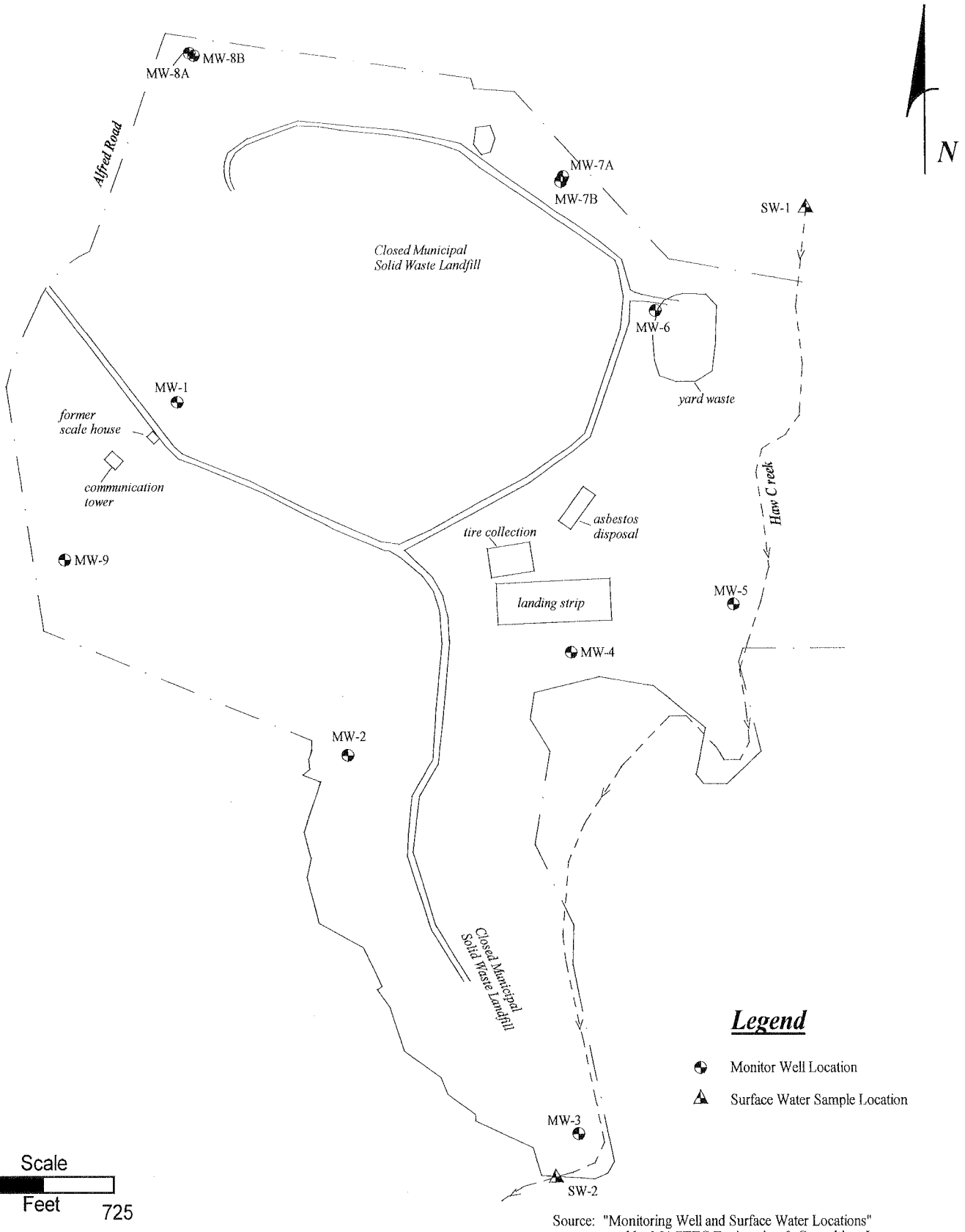
*FIGURES*




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

| | | |
|---|---|---|
| Closed Swepsonville Landfill<br>Alamance County, NC | Buxton Environmental, Inc. | Figure 1.<br>Site Layout Map |

*TABLES*

*TABLE 1*
*GROUNDWATER GAUGING DATA*
*CLOSED SWEPSONVILLE LANDFILL*
*ALAMANCE COUNTY, NORTH CAROLINA*
*SEPTEMBER 16, 2010*

| *Well ID* | *TD BTOC (ft)* | *TOC Elevation (ft)* | *DTW BTOC (ft)* | *DTW Elevation (ft)* |
|---|---|---|---|---|
| | | | | |
| MW-1 | 33.00 | 574.67 | 24.33 | 550.34 |
| MW-2 | 29.90 | 510.67 | 27.43 | 483.24 |
| MW-3 | 24.10 | 466.63 | 12.04 | 454.59 |
| MW-4 | 50.00 | 497.57 | 31.36 | 466.21 |
| MW-5 | 19.00 | 476.56 | 17.50 | 459.06 |
| MW-6 | 50.00 | 529.50 | 21.32 | 508.18 |
| MW-7A | 31.05 | 554.12 | 23.64 | 530.48 |
| MW-7B | 64.02 | 553.09 | 23.75 | 529.34 |
| MW-8A | 65.00 | 591.08 | 25.05 | 566.03 |
| MW-8B | 26.00 | 591.25 | 24.80 | 566.45 |
| MW-9 | 27.50 | 568.78 | 20.07 | 548.71 |

Notes:
Depth to water measurements obtained on September 16, 2010 to the nearest 0.01 foot with a depth to water meter.
TD=total depth;BTOC=below top of casing;TOC=top of casing;DTW=depth to water;ft=feet
TD and TOC elevation data obtained from the "Report of Semi-Annual Water Quality Monitoring, Swepsonville Landfill, Graham, Alamance Co., North Carolina" report prepared by MACTEC in April 2005

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*TABLE 2*
*GROUNDWATER AND SURFACE WATER FIELD PARAMETER DATA*
*CLOSED SWEPSONVILLE LANDFILL*
*ALAMANCE COUNTY, NORTH CAROLINA*
*SEPTEMBER 16, 2010*

| *Sample ID* | *Field Parameters* | | |
|---|---|---|---|
| | *pH (standard units)* | *K (uS)* | *T (fahrenheit)* |
| | | | |
| MW-1 | 5.18 | 110 | 71.7 |
| MW-2 | 5.80 | 306 | 68.8 |
| MW-3 | 5.94 | 93 | 66.1 |
| MW-4 | 6.19 | 898 | 64.8 |
| MW-5 | 6.29 | 239 | 65.1 |
| MW-6 | 6.18 | 131 | 63.7 |
| MW-7A | 5.86 | 181 | 65.0 |
| MW-7B | 5.72 | 192 | 65.9 |
| MW-8A | 5.85 | 41 | 65.6 |
| MW-8B | 5.78 | 38 | 66.0 |
| MW-9 | 5.78 | 57 | 68.1 |
| SW-1 | 7.30 | 140 | 73.1 |
| SW-2 | 7.15 | 73 | 71.0 |

Notes:
Field parameters collected on September 16, 2010. Field parameters at monitor wells collected after purging 3 well volumes of water or to dryness, and surface water field parameters collected immediately prior to sampling.
K = conductivity
T = temperature
uS = microsiemens

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*TABLE 3*
*GROUNDWATER ANALYTICAL DATA*
*CLOSED SWEPSONVILLE LANDFILL*
*ALAMANCE COUNTY, NORTH CAROLINA*
*SEPTEMBER 16, 2010*

| *Sample ID* | *MW-1* | *MW-2* | *MW-3* | *MW-4* | *MW-5* | *MW-6* | *MW-7A* | *MW-7B* | *MW-8A* | *MW-8B* | *MW-9* | *NCGPS* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | |
| ***VOC's*** | | | | | | | | | | | | |
| Benzene | BDL | 0.72J | BDL | **1.5J** | BDL | BDL | **7.2** | **9.9** | BDL | BDL | BDL | 1 |
| Chlorobenzene | BDL | 1.7 | BDL | 1.3J | BDL | BDL | 6.3 | BDL | BDL | BDL | BDL | 50 |
| Chloroethane | BDL | 3.3 | BDL | 9.7 | BDL | BDL | BDL | 8.3 | BDL | BDL | BDL | 3,000 |
| 1,2-Dichlorobenzene | BDL | 0.63J | | 2 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | 20 |
| 1,4-Dichlorobenzene | BDL | 4.6 | BDL | **12** | BDL | BDL | 1.7 | 4.8 | BDL | BDL | BDL | 6 |
| 1,1-Dichloroethane | BDL | **170** | 0.22J | **93** | BDL | BDL | **30** | **42** | BDL | BDL | BDL | 6 |
| 1,2-Dichloroethane | BDL | **2.1** | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | 0.4 |
| 1,1-Dichloroethene | BDL | **12** | BDL | 0.51J | BDL | BDL | 0.32J | 0.4J | BDL | BDL | BDL | 7 |
| cis-1,2-Dichloroethene | BDL | **98** | 0.77J | **420** | BDL | BDL | 46 | **78** | BDL | BDL | BDL | 70 |
| trans-1,2-Dichloroethene | BDL | 2.7 | BDL | 2.4 | BDL | BDL | 0.34J | 0.46J | BDL | BDL | BDL | 100 |
| 1,2-Dichloropropane | BDL | **5.3** | BDL | **2.3** | BDL | BDL | BDL | BDL | BDL | BDL | BDL | 0.6 |
| Methylene Chloride | BDL | BDL | BDL | BDL | BDL | BDL | 1.7 | 1.5 | BDL | BDL | BDL | 5 |
| Tetrachloroethene | **1.5** | **25** | 0.15J | BDL | BDL | BDL | **15** | **13** | BDL | BDL | BDL | 0.7 |
| 1,1,2-Trichloroethane | BDL | 0.58J | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | 0.6 |
| Trichloroethene | BDL | **48** | BDL | 2.2 | BDL | BDL | **12** | **18** | BDL | BDL | BDL | 3 |
| Vinyl Chloride | BDL | **13** | BDL | **33** | BDL | BDL | **6.2** | **8.6** | BDL | BDL | BDL | 0.03 |
| Xylenes | BDL | BDL | BDL | BDL | BDL | BDL | 0.61J | BDL | BDL | BDL | BDL | 500 |
| | | | | | | | | | | | | |
| ***Metals*** | | | | | | | | | | | | |
| Antimony | BDL | BDL | BDL | BDL | 0.39J | 0.76J | 0.12J | BDL | BDL | BDL | BDL | 1.4 |
| Arsenic | BDL | 0.34J | BDL | 0.71J | BDL | BDL | 0.32J | BDL | BDL | BDL | BDL | 10 |
| Barium | 120B | 260B | 110B | 120B | 61 | 82B | 110B | 140B | 15B | 290B | 47B | 700 |
| Beryllium | 0.41B | 0.25BJ | 0.27BJ | BDL | BDL | 0.23BJ | 0.048BJ | BDL | BDL | 0.87B | 0.088BJ | 4 |
| Cadmium | 0.18 | 0.68 | 0.85 | 0.25 | 0.24 | 0.36 | 0.24 | 0.26 | 0.26 | 1.7 | 0.14 | 2 |
| Chromium | BDL | 5.8 | 7 | BDL | 0.88J | 0.81J | 0.6J | 0.67J | 0.81J | 1.9J | 0.88J | 10 |
| Cobalt | 0.4BJ | 3.7BJ | 7.3B | **90B** | 0.42BJ | 2.7BJ | 0.73BJ | 0.56BJ | 0.084BJ | 9.6B | 2BJ | 70 |
| Copper | 0.75BJ | 8.9B | 11B | 0.61BJ | 1.6B | 1.4 | 0.23J | 2.2 | 0.31J | 2.2 | 1.1 | 1,000 |
| Lead | 0.078BJ | **36B** | 2.5B | 0.062BJ | 0.2BJ | 0.42BJ | 0.059BJ | 0.16BJ | 0.06BJ | 3.1B | 0.31BJ | 15 |
| Mercury | 0.11 | 0.058J | 0.19 | 0.16 | BDL | 0.11 | 0.077J | 0.056J | 0.069J | BDL | BDL | 1 |
| Nickel | 0.51J | 13 | 5.5 | BDL | 0.58J | 0.58J | 0.87J | 1.3J | BDL | BDL | 1.3J | 100 |
| Selenium | 0.3BJ | 0.92BJ | 1.2BJ | 2.3B | 0.6BJ | 0.72J | 0.38J | BDL | BDL | BDL | BDL | 20 |
| Silver | 0.064BJ | 0.23BJ | 0.35BJ | 0.087BJ | 0.088BJ | 0.2BJ | 0.11BJ | 0.11BJ | 0.1BJ | 0.46BJ | 0.063BJ | 20 |
| Thallium | BDL | BDL | BDL | BDL | BDL | 0.14J | BDL | BDL | BDL | 0.13J | BDL | 200 |
| Vanadium | BDL | **28** | **26** | 1.6J | 2J | 2.4J | BDL | 1.9J | 1.7J | **15** | 1.9J | 3.5 |
| Zinc | 11 | 28 | 21 | 4.9J | 3.1J | 5.7BJ | 2.8BJ | 5BJ | 7.5BJ | 44B | 4.5BJ | 1,000 |

Notes:
Groundwater samples collected on September 16, 2010 and analyzed for Appendix I volatile organic compounds (VOC's) by EPA Method 8260B, Appendix I metals by EPA 6020A and mercury by EPA Method 7470A.
Analyses by Shealy Environmental Services, Inc. in West Columbia, SC.
NCGPS=North Carolina Groundwater Protection Standard
BDL=below detection limit; NS = no standard
Bold and shade denotes above NCGPS
data presented in micrograms per liter (ug/l)
NT = not tested (limited water or dry well)
B = detected in method blank
J = estimated result <PQL and >=MDL

*TABLE 4*
*CLOSED SURFACE WATER ANALYTICAL DATA*
*SWEPSONVILLE LANDFILL*
*ALAMANCE COUNTY, NORTH CAROLINA*
*SEPTEMBER 16, 2010*

| ***Sample ID*** | ***SW-1*** | ***SW-2*** | ***NCGPS*** |
|---|---|---|---|
| | | | |
| ***Volatile Organic Compounds*** | | | |
| 1,1-Dichloroethane | BDL | 0.45J | 6 |
| cis-1,2-Dichloroethene | BDL | 0.89J | 70 |
| | | | |
| ***Metals*** | | | |
| Arsenic | 0.27J | 0.37J | 10 |
| Barium | 37B | 69B | 700 |
| Chromium | 0.63J | 0.65J | 10 |
| Cobalt | 0.41BJ | 1.6BJ | 70 |
| Copper | 0.62J | 0.37J | 1,000 |
| Lead | 0.11BJ | BDL | 15 |
| Mercury | BDL | BDL | 1 |
| Nickel | BDL | 0.4J | 100 |
| Selenium | BDL | 0.66J | 20 |
| Vanadium | 1.9J | BDL | 3.5 |
| Zinc | 3.4BJ | 2.2BJ | 1,000 |

Notes:
Surface water samples collected on September 16, 2010 and analyzed for Appendix I volatile organic compounds (VOC's) by EPA Method 8260B, Appendix I metals by EPA 6020A, & mercury by EPA Method 7470A. Analyses by Shealy Environmental Services, Inc. in West Columbia, SC.
BDL=below detection limit; NA = not applicable
NCGPS=North Carolina Groundwater Protection Standard
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

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# *APPENDIX A*
# *LABORATORY DATA SHEETS*

# SHEALY ENVIRONMENTAL SERVICES, INC.

## Report of Analysis

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

Project Name: **Swepsonville Landfills - App I**

Lot Number: **LI17066**
Date Completed: **10/01/2010**

N. Saikaly

**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: LI17066

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

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

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

Volatile Organic Compounds

The LCS recovery for Acrylonitrile, Benzene1,2-Dichloropropane and Styrene were outside method control limits in batch 42861. The LCSD results were within limits. Therefore the associated sample results were reported and no corrective action was required.

Metals

The MS/MSD recoveries in batch 42710 were outside acceptance criteria. All other QA/QC criteria for the batch were within acceptance criteria and method control limits. The MS/MSD recovery results are attributed to matrix interference. The associated sample results were reported and no corrective action was required.

## Sample Summary
## Buxton Environmental
### Lot Number: LI17066

| Sample Number | Sample ID | Matrix | Date Sampled | Date Received |
|---|---|---|---|---|
| 001 | MW-1 | Aqueous | 09/16/2010 1400 | 09/17/2010 |
| 002 | MW-2 | Aqueous | 09/16/2010 1700 | 09/17/2010 |
| 003 | MW-3 | Aqueous | 09/16/2010 1720 | 09/17/2010 |
| 004 | MW-4 | Aqueous | 09/16/2010 1800 | 09/17/2010 |
| 005 | MW-5 | Aqueous | 09/16/2010 1830 | 09/17/2010 |
| 006 | MW-6 | Aqueous | 09/16/2010 1445 | 09/17/2010 |
| 007 | MW-7A | Aqueous | 09/16/2010 1545 | 09/17/2010 |
| 008 | MW-7B | Aqueous | 09/16/2010 1515 | 09/17/2010 |
| 009 | MW-8A | Aqueous | 09/16/2010 1615 | 09/17/2010 |
| 010 | MW-8B | Aqueous | 09/16/2010 1600 | 09/17/2010 |
| 011 | MW-9 | Aqueous | 09/16/2010 1415 | 09/17/2010 |
| 012 | SW-1 | Aqueous | 09/16/2010 1500 | 09/17/2010 |
| 013 | SW-2 | Aqueous | 09/16/2010 1730 | 09/17/2010 |
| 014 | Trip Blank | Aqueous | 09/17/2010 1605 | 09/17/2010 |

(14 samples)

## Executive Summary
## Buxton Environmental
### Lot Number: LI17066

| Sample | Sample ID | Matrix | Parameter | Method | Result | Q | Units | Page |
|---|---|---|---|---|---|---|---|---|
| 001 | MW-1 | Aqueous | Tetrachloroethene | 8260B | 1.5 | | ug/L | 9 |
| 001 | MW-1 | Aqueous | Barium | 6020A | 120 | B | ug/L | 11 |
| 001 | MW-1 | Aqueous | Beryllium | 6020A | 0.41 | B | ug/L | 11 |
| 001 | MW-1 | Aqueous | Cadmium | 6020A | 0.18 | | ug/L | 11 |
| 001 | MW-1 | Aqueous | Cobalt | 6020A | 0.40 | BJ | ug/L | 11 |
| 001 | MW-1 | Aqueous | Copper | 6020A | 0.75 | BJ | ug/L | 11 |
| 001 | MW-1 | Aqueous | Lead | 6020A | 0.078 | BJ | ug/L | 11 |
| 001 | MW-1 | Aqueous | Nickel | 6020A | 0.51 | J | ug/L | 11 |
| 001 | MW-1 | Aqueous | Selenium | 6020A | 0.30 | BJ | ug/L | 11 |
| 001 | MW-1 | Aqueous | Silver | 6020A | 0.064 | BJ | ug/L | 11 |
| 001 | MW-1 | Aqueous | Zinc | 6020A | 11 | | ug/L | 11 |
| 001 | MW-1 | Aqueous | Mercury | 7470A | 0.00011 | | mg/L | 12 |
| 002 | MW-2 | Aqueous | Benzene | 8260B | 0.72 | J | ug/L | 13 |
| 002 | MW-2 | Aqueous | Chlorobenzene | 8260B | 1.7 | | ug/L | 13 |
| 002 | MW-2 | Aqueous | Chloroethane | 8260B | 3.3 | | ug/L | 13 |
| 002 | MW-2 | Aqueous | 1,2-Dichlorobenzene | 8260B | 0.63 | J | ug/L | 13 |
| 002 | MW-2 | Aqueous | 1,4-Dichlorobenzene | 8260B | 4.6 | | ug/L | 13 |
| 002 | MW-2 | Aqueous | 1,1-Dichloroethane | 8260B | 170 | | ug/L | 13 |
| 002 | MW-2 | Aqueous | 1,2-Dichloroethane | 8260B | 2.1 | | ug/L | 13 |
| 002 | MW-2 | Aqueous | 1,1-Dichloroethene | 8260B | 12 | | ug/L | 13 |
| 002 | MW-2 | Aqueous | cis-1,2-Dichloroethene | 8260B | 98 | | ug/L | 13 |
| 002 | MW-2 | Aqueous | trans-1,2-Dichloroethene | 8260B | 2.7 | | ug/L | 13 |
| 002 | MW-2 | Aqueous | 1,2-Dichloropropane | 8260B | 5.3 | | ug/L | 13 |
| 002 | MW-2 | Aqueous | Tetrachloroethene | 8260B | 25 | | ug/L | 13 |
| 002 | MW-2 | Aqueous | 1,1,2-Trichloroethane | 8260B | 0.58 | J | ug/L | 13 |
| 002 | MW-2 | Aqueous | Trichloroethene | 8260B | 48 | | ug/L | 13 |
| 002 | MW-2 | Aqueous | Vinyl chloride | 8260B | 13 | | ug/L | 14 |
| 002 | MW-2 | Aqueous | Arsenic | 6020A | 0.34 | J | ug/L | 15 |
| 002 | MW-2 | Aqueous | Barium | 6020A | 260 | B | ug/L | 15 |
| 002 | MW-2 | Aqueous | Beryllium | 6020A | 0.25 | BJ | ug/L | 15 |
| 002 | MW-2 | Aqueous | Cadmium | 6020A | 0.68 | | ug/L | 15 |
| 002 | MW-2 | Aqueous | Chromium | 6020A | 5.8 | | ug/L | 15 |
| 002 | MW-2 | Aqueous | Cobalt | 6020A | 3.7 | BJ | ug/L | 15 |
| 002 | MW-2 | Aqueous | Copper | 6020A | 8.9 | B | ug/L | 15 |
| 002 | MW-2 | Aqueous | Lead | 6020A | 36 | B | ug/L | 15 |
| 002 | MW-2 | Aqueous | Nickel | 6020A | 13 | | ug/L | 15 |
| 002 | MW-2 | Aqueous | Selenium | 6020A | 0.92 | BJ | ug/L | 15 |
| 002 | MW-2 | Aqueous | Silver | 6020A | 0.23 | BJ | ug/L | 15 |
| 002 | MW-2 | Aqueous | Vanadium | 6020A | 28 | | ug/L | 15 |
| 002 | MW-2 | Aqueous | Zinc | 6020A | 28 | | ug/L | 15 |
| 002 | MW-2 | Aqueous | Mercury | 7470A | 0.000058 | J | mg/L | 16 |
| 003 | MW-3 | Aqueous | 1,1-Dichloroethane | 8260B | 0.22 | J | ug/L | 17 |
| 003 | MW-3 | Aqueous | cis-1,2-Dichloroethene | 8260B | 0.77 | J | ug/L | 17 |
| 003 | MW-3 | Aqueous | Tetrachloroethene | 8260B | 0.15 | J | ug/L | 17 |
| 003 | MW-3 | Aqueous | Barium | 6020A | 110 | B | ug/L | 19 |

# Executive Summary (Continued)

## Lot Number: LI17066

| Sample | Sample ID | Matrix | Parameter | Method | Result | Q | Units | Page |
|---|---|---|---|---|---|---|---|---|
| 003 | MW-3 | Aqueous | Beryllium | 6020A | 0.27 | BJ | ug/L | 19 |
| 003 | MW-3 | Aqueous | Cadmium | 6020A | 0.85 | | ug/L | 19 |
| 003 | MW-3 | Aqueous | Chromium | 6020A | 7.0 | | ug/L | 19 |
| 003 | MW-3 | Aqueous | Cobalt | 6020A | 7.3 | B | ug/L | 19 |
| 003 | MW-3 | Aqueous | Copper | 6020A | 11 | B | ug/L | 19 |
| 003 | MW-3 | Aqueous | Lead | 6020A | 2.5 | B | ug/L | 19 |
| 003 | MW-3 | Aqueous | Nickel | 6020A | 5.5 | | ug/L | 19 |
| 003 | MW-3 | Aqueous | Selenium | 6020A | 1.2 | BJ | ug/L | 19 |
| 003 | MW-3 | Aqueous | Silver | 6020A | 0.35 | BJ | ug/L | 19 |
| 003 | MW-3 | Aqueous | Vanadium | 6020A | 26 | | ug/L | 19 |
| 003 | MW-3 | Aqueous | Zinc | 6020A | 21 | | ug/L | 19 |
| 003 | MW-3 | Aqueous | Mercury | 7470A | 0.00019 | | mg/L | 20 |
| 004 | MW-4 | Aqueous | Benzene | 8260B | 1.5 | J | ug/L | 21 |
| 004 | MW-4 | Aqueous | Chlorobenzene | 8260B | 1.3 | J | ug/L | 21 |
| 004 | MW-4 | Aqueous | Chloroethane | 8260B | 9.7 | | ug/L | 21 |
| 004 | MW-4 | Aqueous | 1,2-Dichlorobenzene | 8260B | 2.0 | | ug/L | 21 |
| 004 | MW-4 | Aqueous | 1,4-Dichlorobenzene | 8260B | 12 | | ug/L | 21 |
| 004 | MW-4 | Aqueous | 1,1-Dichloroethane | 8260B | 93 | | ug/L | 21 |
| 004 | MW-4 | Aqueous | 1,1-Dichloroethene | 8260B | 0.51 | J | ug/L | 21 |
| 004 | MW-4 | Aqueous | cis-1,2-Dichloroethene | 8260B | 420 | | ug/L | 21 |
| 004 | MW-4 | Aqueous | trans-1,2-Dichloroethene | 8260B | 2.4 | | ug/L | 21 |
| 004 | MW-4 | Aqueous | 1,2-Dichloropropane | 8260B | 2.3 | | ug/L | 21 |
| 004 | MW-4 | Aqueous | Trichloroethene | 8260B | 2.2 | | ug/L | 21 |
| 004 | MW-4 | Aqueous | Vinyl chloride | 8260B | 33 | | ug/L | 22 |
| 004 | MW-4 | Aqueous | Arsenic | 6020A | 0.71 | J | ug/L | 23 |
| 004 | MW-4 | Aqueous | Barium | 6020A | 120 | B | ug/L | 23 |
| 004 | MW-4 | Aqueous | Cadmium | 6020A | 0.25 | | ug/L | 23 |
| 004 | MW-4 | Aqueous | Cobalt | 6020A | 90 | B | ug/L | 23 |
| 004 | MW-4 | Aqueous | Copper | 6020A | 0.61 | BJ | ug/L | 23 |
| 004 | MW-4 | Aqueous | Lead | 6020A | 0.062 | BJ | ug/L | 23 |
| 004 | MW-4 | Aqueous | Selenium | 6020A | 2.3 | B | ug/L | 23 |
| 004 | MW-4 | Aqueous | Silver | 6020A | 0.087 | BJ | ug/L | 23 |
| 004 | MW-4 | Aqueous | Vanadium | 6020A | 1.6 | J | ug/L | 23 |
| 004 | MW-4 | Aqueous | Zinc | 6020A | 4.9 | J | ug/L | 23 |
| 004 | MW-4 | Aqueous | Mercury | 7470A | 0.00016 | | mg/L | 24 |
| 005 | MW-5 | Aqueous | Antimony | 6020A | 0.39 | J | ug/L | 27 |
| 005 | MW-5 | Aqueous | Barium | 6020A | 61 | B | ug/L | 27 |
| 005 | MW-5 | Aqueous | Cadmium | 6020A | 0.24 | | ug/L | 27 |
| 005 | MW-5 | Aqueous | Chromium | 6020A | 0.88 | J | ug/L | 27 |
| 005 | MW-5 | Aqueous | Cobalt | 6020A | 0.42 | BJ | ug/L | 27 |
| 005 | MW-5 | Aqueous | Copper | 6020A | 1.6 | B | ug/L | 27 |
| 005 | MW-5 | Aqueous | Lead | 6020A | 0.20 | BJ | ug/L | 27 |
| 005 | MW-5 | Aqueous | Nickel | 6020A | 0.58 | J | ug/L | 27 |
| 005 | MW-5 | Aqueous | Selenium | 6020A | 0.60 | BJ | ug/L | 27 |
| 005 | MW-5 | Aqueous | Silver | 6020A | 0.088 | BJ | ug/L | 27 |
| 005 | MW-5 | Aqueous | Vanadium | 6020A | 2.0 | J | ug/L | 27 |
| 005 | MW-5 | Aqueous | Zinc | 6020A | 3.1 | J | ug/L | 27 |
| 006 | MW-6 | Aqueous | Antimony | 6020A | 0.76 | J | ug/L | 31 |

# Executive Summary (Continued)

## Lot Number: LI17066

| Sample | Sample ID | Matrix | Parameter | Method | Result | Q | Units | Page |
|---|---|---|---|---|---|---|---|---|
| 006 | MW-6 | Aqueous | Barium | 6020A | 82 | B | ug/L | 31 |
| 006 | MW-6 | Aqueous | Beryllium | 6020A | 0.23 | BJ | ug/L | 31 |
| 006 | MW-6 | Aqueous | Cadmium | 6020A | 0.36 | | ug/L | 31 |
| 006 | MW-6 | Aqueous | Chromium | 6020A | 0.81 | J | ug/L | 31 |
| 006 | MW-6 | Aqueous | Cobalt | 6020A | 2.7 | BJ | ug/L | 31 |
| 006 | MW-6 | Aqueous | Copper | 6020A | 1.4 | | ug/L | 31 |
| 006 | MW-6 | Aqueous | Lead | 6020A | 0.42 | BJ | ug/L | 31 |
| 006 | MW-6 | Aqueous | Nickel | 6020A | 0.58 | J | ug/L | 31 |
| 006 | MW-6 | Aqueous | Selenium | 6020A | 0.72 | J | ug/L | 31 |
| 006 | MW-6 | Aqueous | Silver | 6020A | 0.20 | BJ | ug/L | 31 |
| 006 | MW-6 | Aqueous | Thallium | 6020A | 0.14 | J | ug/L | 31 |
| 006 | MW-6 | Aqueous | Vanadium | 6020A | 2.4 | J | ug/L | 31 |
| 006 | MW-6 | Aqueous | Zinc | 6020A | 5.7 | BJ | ug/L | 31 |
| 006 | MW-6 | Aqueous | Mercury | 7470A | 0.00011 | | mg/L | 32 |
| 007 | MW-7A | Aqueous | Benzene | 8260B | 7.2 | | ug/L | 33 |
| 007 | MW-7A | Aqueous | Chloroethane | 8260B | 6.3 | | ug/L | 33 |
| 007 | MW-7A | Aqueous | 1,4-Dichlorobenzene | 8260B | 1.7 | | ug/L | 33 |
| 007 | MW-7A | Aqueous | 1,1-Dichloroethane | 8260B | 30 | | ug/L | 33 |
| 007 | MW-7A | Aqueous | 1,1-Dichloroethene | 8260B | 0.32 | J | ug/L | 33 |
| 007 | MW-7A | Aqueous | cis-1,2-Dichloroethene | 8260B | 46 | | ug/L | 33 |
| 007 | MW-7A | Aqueous | trans-1,2-Dichloroethene | 8260B | 0.34 | J | ug/L | 33 |
| 007 | MW-7A | Aqueous | Methylene chloride | 8260B | 1.7 | | ug/L | 33 |
| 007 | MW-7A | Aqueous | Tetrachloroethene | 8260B | 15 | | ug/L | 33 |
| 007 | MW-7A | Aqueous | Trichloroethene | 8260B | 12 | | ug/L | 33 |
| 007 | MW-7A | Aqueous | Vinyl chloride | 8260B | 6.2 | | ug/L | 34 |
| 007 | MW-7A | Aqueous | Xylenes (total) | 8260B | 0.61 | J | ug/L | 34 |
| 007 | MW-7A | Aqueous | Antimony | 6020A | 0.12 | J | ug/L | 35 |
| 007 | MW-7A | Aqueous | Arsenic | 6020A | 0.32 | J | ug/L | 35 |
| 007 | MW-7A | Aqueous | Barium | 6020A | 110 | B | ug/L | 35 |
| 007 | MW-7A | Aqueous | Beryllium | 6020A | 0.048 | BJ | ug/L | 35 |
| 007 | MW-7A | Aqueous | Cadmium | 6020A | 0.24 | | ug/L | 35 |
| 007 | MW-7A | Aqueous | Chromium | 6020A | 0.60 | J | ug/L | 35 |
| 007 | MW-7A | Aqueous | Cobalt | 6020A | 0.73 | BJ | ug/L | 35 |
| 007 | MW-7A | Aqueous | Copper | 6020A | 0.23 | J | ug/L | 35 |
| 007 | MW-7A | Aqueous | Lead | 6020A | 0.059 | BJ | ug/L | 35 |
| 007 | MW-7A | Aqueous | Nickel | 6020A | 0.87 | J | ug/L | 35 |
| 007 | MW-7A | Aqueous | Selenium | 6020A | 0.38 | J | ug/L | 35 |
| 007 | MW-7A | Aqueous | Silver | 6020A | 0.11 | BJ | ug/L | 35 |
| 007 | MW-7A | Aqueous | Vanadium | 6020A | 1.7 | J | ug/L | 35 |
| 007 | MW-7A | Aqueous | Zinc | 6020A | 2.8 | BJ | ug/L | 35 |
| 007 | MW-7A | Aqueous | Mercury | 7470A | 0.000077 | J | mg/L | 36 |
| 008 | MW-7B | Aqueous | Benzene | 8260B | 9.9 | | ug/L | 37 |
| 008 | MW-7B | Aqueous | Chloroethane | 8260B | 8.3 | | ug/L | 37 |
| 008 | MW-7B | Aqueous | 1,4-Dichlorobenzene | 8260B | 4.8 | | ug/L | 37 |
| 008 | MW-7B | Aqueous | 1,1-Dichloroethane | 8260B | 42 | | ug/L | 37 |
| 008 | MW-7B | Aqueous | 1,1-Dichloroethene | 8260B | 0.40 | J | ug/L | 37 |
| 008 | MW-7B | Aqueous | cis-1,2-Dichloroethene | 8260B | 78 | | ug/L | 37 |
| 008 | MW-7B | Aqueous | trans-1,2-Dichloroethene | 8260B | 0.46 | J | ug/L | 37 |

# Executive Summary (Continued)

## Lot Number: LI17066

| Sample | Sample ID | Matrix | Parameter | Method | Result | Q | Units | Page |
|---|---|---|---|---|---|---|---|---|
| 008 | MW-7B | Aqueous | Methylene chloride | 8260B | 1.5 | | ug/L | 37 |
| 008 | MW-7B | Aqueous | Tetrachloroethene | 8260B | 13 | | ug/L | 37 |
| 008 | MW-7B | Aqueous | Trichloroethene | 8260B | 18 | | ug/L | 37 |
| 008 | MW-7B | Aqueous | Vinyl chloride | 8260B | 8.6 | | ug/L | 38 |
| 008 | MW-7B | Aqueous | Barium | 6020A | 140 | B | ug/L | 39 |
| 008 | MW-7B | Aqueous | Cadmium | 6020A | 0.26 | | ug/L | 39 |
| 008 | MW-7B | Aqueous | Chromium | 6020A | 0.67 | J | ug/L | 39 |
| 008 | MW-7B | Aqueous | Cobalt | 6020A | 0.56 | BJ | ug/L | 39 |
| 008 | MW-7B | Aqueous | Copper | 6020A | 2.2 | | ug/L | 39 |
| 008 | MW-7B | Aqueous | Lead | 6020A | 0.16 | BJ | ug/L | 39 |
| 008 | MW-7B | Aqueous | Nickel | 6020A | 1.3 | J | ug/L | 39 |
| 008 | MW-7B | Aqueous | Silver | 6020A | 0.11 | BJ | ug/L | 39 |
| 008 | MW-7B | Aqueous | Vanadium | 6020A | 1.9 | J | ug/L | 39 |
| 008 | MW-7B | Aqueous | Zinc | 6020A | 5.0 | BJ | ug/L | 39 |
| 008 | MW-7B | Aqueous | Mercury | 7470A | 0.000056 | J | mg/L | 40 |
| 009 | MW-8A | Aqueous | Barium | 6020A | 15 | B | ug/L | 43 |
| 009 | MW-8A | Aqueous | Cadmium | 6020A | 0.26 | | ug/L | 43 |
| 009 | MW-8A | Aqueous | Chromium | 6020A | 0.81 | J | ug/L | 43 |
| 009 | MW-8A | Aqueous | Cobalt | 6020A | 0.084 | BJ | ug/L | 43 |
| 009 | MW-8A | Aqueous | Copper | 6020A | 0.31 | J | ug/L | 43 |
| 009 | MW-8A | Aqueous | Lead | 6020A | 0.060 | BJ | ug/L | 43 |
| 009 | MW-8A | Aqueous | Silver | 6020A | 0.10 | BJ | ug/L | 43 |
| 009 | MW-8A | Aqueous | Vanadium | 6020A | 1.7 | J | ug/L | 43 |
| 009 | MW-8A | Aqueous | Zinc | 6020A | 7.5 | BJ | ug/L | 43 |
| 009 | MW-8A | Aqueous | Mercury | 7470A | 0.000069 | J | mg/L | 44 |
| 010 | MW-8B | Aqueous | Barium | 6020A | 290 | B | ug/L | 47 |
| 010 | MW-8B | Aqueous | Beryllium | 6020A | 0.87 | B | ug/L | 47 |
| 010 | MW-8B | Aqueous | Cadmium | 6020A | 1.7 | | ug/L | 47 |
| 010 | MW-8B | Aqueous | Chromium | 6020A | 1.9 | J | ug/L | 47 |
| 010 | MW-8B | Aqueous | Cobalt | 6020A | 9.6 | B | ug/L | 47 |
| 010 | MW-8B | Aqueous | Copper | 6020A | 2.2 | | ug/L | 47 |
| 010 | MW-8B | Aqueous | Lead | 6020A | 3.1 | B | ug/L | 47 |
| 010 | MW-8B | Aqueous | Silver | 6020A | 0.46 | BJ | ug/L | 47 |
| 010 | MW-8B | Aqueous | Thallium | 6020A | 0.13 | J | ug/L | 47 |
| 010 | MW-8B | Aqueous | Vanadium | 6020A | 15 | | ug/L | 47 |
| 010 | MW-8B | Aqueous | Zinc | 6020A | 44 | B | ug/L | 47 |
| 011 | MW-9 | Aqueous | Barium | 6020A | 47 | B | ug/L | 51 |
| 011 | MW-9 | Aqueous | Beryllium | 6020A | 0.088 | BJ | ug/L | 51 |
| 011 | MW-9 | Aqueous | Cadmium | 6020A | 0.14 | | ug/L | 51 |
| 011 | MW-9 | Aqueous | Chromium | 6020A | 0.88 | J | ug/L | 51 |
| 011 | MW-9 | Aqueous | Cobalt | 6020A | 2.0 | BJ | ug/L | 51 |
| 011 | MW-9 | Aqueous | Copper | 6020A | 1.1 | | ug/L | 51 |
| 011 | MW-9 | Aqueous | Lead | 6020A | 0.31 | BJ | ug/L | 51 |
| 011 | MW-9 | Aqueous | Nickel | 6020A | 1.3 | J | ug/L | 51 |
| 011 | MW-9 | Aqueous | Silver | 6020A | 0.063 | BJ | ug/L | 51 |
| 011 | MW-9 | Aqueous | Vanadium | 6020A | 1.9 | J | ug/L | 51 |
| 011 | MW-9 | Aqueous | Zinc | 6020A | 5.4 | BJ | ug/L | 51 |
| 012 | SW-1 | Aqueous | Arsenic | 6020A | 0.27 | J | ug/L | 55 |

# Executive Summary (Continued)

## Lot Number: LI17066

| Sample | Sample ID | Matrix | Parameter | Method | Result | Q | Units | Page |
|---|---|---|---|---|---|---|---|---|
| 012 | SW-1 | Aqueous | Barium | 6020A | 37 | B | ug/L | 55 |
| 012 | SW-1 | Aqueous | Chromium | 6020A | 0.63 | J | ug/L | 55 |
| 012 | SW-1 | Aqueous | Cobalt | 6020A | 0.41 | BJ | ug/L | 55 |
| 012 | SW-1 | Aqueous | Copper | 6020A | 0.62 | J | ug/L | 55 |
| 012 | SW-1 | Aqueous | Lead | 6020A | 0.11 | BJ | ug/L | 55 |
| 012 | SW-1 | Aqueous | Vanadium | 6020A | 1.9 | J | ug/L | 55 |
| 012 | SW-1 | Aqueous | Zinc | 6020A | 3.4 | BJ | ug/L | 55 |
| 013 | SW-2 | Aqueous | 1,1-Dichloroethane | 8260B | 0.45 | J | ug/L | 57 |
| 013 | SW-2 | Aqueous | cis-1,2-Dichloroethene | 8260B | 0.89 | J | ug/L | 57 |
| 013 | SW-2 | Aqueous | Arsenic | 6020A | 0.37 | J | ug/L | 59 |
| 013 | SW-2 | Aqueous | Barium | 6020A | 69 | B | ug/L | 59 |
| 013 | SW-2 | Aqueous | Chromium | 6020A | 0.65 | J | ug/L | 59 |
| 013 | SW-2 | Aqueous | Cobalt | 6020A | 1.6 | BJ | ug/L | 59 |
| 013 | SW-2 | Aqueous | Copper | 6020A | 0.37 | J | ug/L | 59 |
| 013 | SW-2 | Aqueous | Nickel | 6020A | 0.40 | J | ug/L | 59 |
| 013 | SW-2 | Aqueous | Selenium | 6020A | 0.66 | J | ug/L | 59 |
| 013 | SW-2 | Aqueous | Zinc | 6020A | 2.2 | BJ | ug/L | 59 |

(206 detections)

# Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Description: **MW-1**
Date Sampled: **09/16/2010 1400**
Date Received: **09/17/2010**

Laboratory ID: **LI17066-001**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 5030B | 8260B | 1 | 09/21/2010 1457 | DLB | | 42861 |

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

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

# Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Description: **MW-1**
Date Sampled: **09/16/2010 1400**
Date Received: **09/17/2010**

Laboratory ID: **LI17066-001**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 5030B | 8260B | 1 | 09/21/2010 1457 | DLB | | 42861 |

| 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 | | 104 | 70-130 |
| Bromofluorobenzene | | 107 | 70-130 |
| Toluene-d8 | | 112 | 70-130 |

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

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

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

# ICP-MS

Client: **Buxton Environmental**
Description: **MW-1**
Date Sampled: **09/16/2010 1400**
Date Received: **09/17/2010**

Laboratory ID: **LI17066-001**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 3005A | 6020A | 1 | 09/23/2010 0341 | KJC | 09/20/2010 2120 | 42709 |
| 2 | 3005A | 6020A | 1 | 09/29/2010 1037 | KJC | 09/20/2010 2120 | 42709 |

| Parameter | CAS Number | Analytical Method | Result | Q | PQL | MDL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| Antimony | 7440-36-0 | 6020A | ND | | 1.0 | 0.097 | ug/L | 1 |
| Arsenic | 7440-38-2 | 6020A | ND | | 1.0 | 0.26 | ug/L | 2 |
| **Barium** | **7440-39-3** | **6020A** | **120** | **B** | **5.0** | **0.045** | **ug/L** | **2** |
| **Beryllium** | **7440-41-7** | **6020A** | **0.41** | **B** | **0.40** | **0.028** | **ug/L** | **1** |
| **Cadmium** | **7440-43-9** | **6020A** | **0.18** | | **0.10** | **0.059** | **ug/L** | **2** |
| Chromium | 7440-47-3 | 6020A | ND | | 5.0 | 0.35 | ug/L | 2 |
| **Cobalt** | **7440-48-4** | **6020A** | **0.40** | **BJ** | **5.0** | **0.029** | **ug/L** | **2** |
| **Copper** | **7440-50-8** | **6020A** | **0.75** | **BJ** | **1.0** | **0.15** | **ug/L** | **2** |
| **Lead** | **7439-92-1** | **6020A** | **0.078** | **BJ** | **1.0** | **0.047** | **ug/L** | **1** |
| **Nickel** | **7440-02-0** | **6020A** | **0.51** | **J** | **5.0** | **0.28** | **ug/L** | **2** |
| **Selenium** | **7782-49-2** | **6020A** | **0.30** | **BJ** | **1.0** | **0.25** | **ug/L** | **2** |
| **Silver** | **7440-22-4** | **6020A** | **0.064** | **BJ** | **1.0** | **0.011** | **ug/L** | **1** |
| Thallium | 7440-28-0 | 6020A | ND | | 0.50 | 0.076 | ug/L | 1 |
| Vanadium | 7440-62-2 | 6020A | ND | | 5.0 | 1.5 | ug/L | 2 |
| **Zinc** | **7440-66-6** | **6020A** | **11** | | **10** | **1.5** | **ug/L** | **2** |

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

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

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

# CVAA

Client: **Buxton Environmental**
Description: **MW-1**
Date Sampled: **09/16/2010 1400**
Date Received: **09/17/2010**

Laboratory ID: **LI17066-001**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | | 7470A | 1 | 09/21/2010 1837 | KJC | 09/20/2010 1925 | 42508 |

| Parameter | CAS Number | Analytical Method | Result | Q | PQL | MDL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| **Mercury** | **7439-97-6** | **7470A** | **0.00011** | | **0.00010** | **0.000053** | **mg/L** | **1** |

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

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

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

# Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Description: **MW-2**
Date Sampled: **09/16/2010 1700**
Date Received: **09/17/2010**

Laboratory ID: **LI17066-002**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 5030B | 8260B | 1 | 09/21/2010 1519 | DLB | | 42861 |

| 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** | **0.72** | **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** | **1.7** | | **1.0** | **0.33** | **ug/L** | **1** |
| **Chloroethane** | **75-00-3** | **8260B** | **3.3** | | **2.0** | **0.47** | **ug/L** | **1** |
| Chloroform | 67-66-3 | 8260B | ND | | 1.0 | 0.33 | ug/L | 1 |
| Chloromethane (Methyl chloride) | 74-87-3 | 8260B | ND | | 1.0 | 0.35 | ug/L | 1 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | 8260B | ND | | 1.0 | 0.60 | ug/L | 1 |
| Dibromochloromethane | 124-48-1 | 8260B | ND | | 1.0 | 0.33 | ug/L | 1 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8260B | ND | | 1.0 | 0.30 | ug/L | 1 |
| Dibromomethane (Methylene bromide) | 74-95-3 | 8260B | ND | | 1.0 | 0.35 | ug/L | 1 |
| trans-1,4-Dichloro-2-butene | 110-57-6 | 8260B | ND | | 2.0 | 0.83 | ug/L | 1 |
| **1,2-Dichlorobenzene** | **95-50-1** | **8260B** | **0.63** | **J** | **1.0** | **0.33** | **ug/L** | **1** |
| **1,4-Dichlorobenzene** | **106-46-7** | **8260B** | **4.6** | | **1.0** | **0.33** | **ug/L** | **1** |
| **1,1-Dichloroethane** | **75-34-3** | **8260B** | **170** | | **1.0** | **0.13** | **ug/L** | **1** |
| **1,2-Dichloroethane** | **107-06-2** | **8260B** | **2.1** | | **1.0** | **0.15** | **ug/L** | **1** |
| **1,1-Dichloroethene** | **75-35-4** | **8260B** | **12** | | **1.0** | **0.16** | **ug/L** | **1** |
| **cis-1,2-Dichloroethene** | **156-59-2** | **8260B** | **98** | | **1.0** | **0.12** | **ug/L** | **1** |
| **trans-1,2-Dichloroethene** | **156-60-5** | **8260B** | **2.7** | | **1.0** | **0.21** | **ug/L** | **1** |
| **1,2-Dichloropropane** | **78-87-5** | **8260B** | **5.3** | | **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** | **25** | | **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** | **0.58** | **J** | **1.0** | **0.21** | **ug/L** | **1** |
| **Trichloroethene** | **79-01-6** | **8260B** | **48** | | **1.0** | **0.18** | **ug/L** | **1** |
| Trichlorofluoromethane | 75-69-4 | 8260B | ND | | 1.0 | 0.30 | ug/L | 1 |
| 1,2,3-Trichloropropane | 96-18-4 | 8260B | ND | | 1.0 | 0.33 | ug/L | 1 |

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

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

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

# Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Description: **MW-2**
Date Sampled: **09/16/2010 1700**
Date Received: **09/17/2010**

Laboratory ID: **LI17066-002**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 5030B | 8260B | 1 | 09/21/2010 1519 | DLB | | 42861 |

| 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** | **13** | | **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 | | 108 | 70-130 |
| Toluene-d8 | | 113 | 70-130 |

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

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

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

# ICP-MS

Client: **Buxton Environmental**
Description: **MW-2**
Date Sampled: **09/16/2010 1700**
Date Received: **09/17/2010**

Laboratory ID: **LI17066-002**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 3005A | 6020A | 1 | 09/23/2010 0349 | KJC | 09/20/2010 2120 | 42709 |
| 2 | 3005A | 6020A | 1 | 09/29/2010 1044 | KJC | 09/20/2010 2120 | 42709 |

| Parameter | CAS Number | Analytical Method | Result | Q | PQL | MDL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| Antimony | 7440-36-0 | 6020A | ND | | 1.0 | 0.097 | ug/L | 1 |
| **Arsenic** | **7440-38-2** | **6020A** | **0.34** | **J** | **1.0** | **0.26** | **ug/L** | **2** |
| **Barium** | **7440-39-3** | **6020A** | **260** | **B** | **5.0** | **0.045** | **ug/L** | **1** |
| **Beryllium** | **7440-41-7** | **6020A** | **0.25** | **BJ** | **0.40** | **0.028** | **ug/L** | **1** |
| **Cadmium** | **7440-43-9** | **6020A** | **0.68** | | **0.10** | **0.059** | **ug/L** | **2** |
| **Chromium** | **7440-47-3** | **6020A** | **5.8** | | **5.0** | **0.35** | **ug/L** | **2** |
| **Cobalt** | **7440-48-4** | **6020A** | **3.7** | **BJ** | **5.0** | **0.029** | **ug/L** | **2** |
| **Copper** | **7440-50-8** | **6020A** | **8.9** | **B** | **1.0** | **0.15** | **ug/L** | **2** |
| **Lead** | **7439-92-1** | **6020A** | **36** | **B** | **1.0** | **0.047** | **ug/L** | **1** |
| **Nickel** | **7440-02-0** | **6020A** | **13** | | **5.0** | **0.28** | **ug/L** | **2** |
| **Selenium** | **7782-49-2** | **6020A** | **0.92** | **BJ** | **1.0** | **0.25** | **ug/L** | **2** |
| **Silver** | **7440-22-4** | **6020A** | **0.23** | **BJ** | **1.0** | **0.011** | **ug/L** | **1** |
| Thallium | 7440-28-0 | 6020A | ND | | 0.50 | 0.076 | ug/L | 1 |
| **Vanadium** | **7440-62-2** | **6020A** | **28** | | **5.0** | **1.5** | **ug/L** | **2** |
| **Zinc** | **7440-66-6** | **6020A** | **28** | | **10** | **1.5** | **ug/L** | **2** |

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

# CVAA

Client: **Buxton Environmental**
Description: **MW-2**
Date Sampled: **09/16/2010 1700**
Date Received: **09/17/2010**

Laboratory ID: **LI17066-002**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | | 7470A | 1 | 09/21/2010 1839 | KJC | 09/20/2010 1925 | 42508 |

| Parameter | CAS Number | Analytical Method | Result | Q | PQL | MDL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| **Mercury** | **7439-97-6** | **7470A** | **0.000058** | **J** | **0.00010** | **0.000053** | **mg/L** | **1** |

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

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

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

# Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **LI17066-003**
Description: **MW-3**
Matrix: **Aqueous**
Date Sampled: **09/16/2010 1720**
Date Received: **09/17/2010**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 5030B | 8260B | 1 | 09/21/2010 1540 | DLB | | 42861 |

| 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** | **0.22** | **J** | **1.0** | **0.13** | **ug/L** | **1** |
| 1,2-Dichloroethane | 107-06-2 | 8260B | ND | | 1.0 | 0.15 | ug/L | 1 |
| 1,1-Dichloroethene | 75-35-4 | 8260B | ND | | 1.0 | 0.16 | ug/L | 1 |
| **cis-1,2-Dichloroethene** | **156-59-2** | **8260B** | **0.77** | **J** | **1.0** | **0.12** | **ug/L** | **1** |
| trans-1,2-Dichloroethene | 156-60-5 | 8260B | ND | | 1.0 | 0.21 | ug/L | 1 |
| 1,2-Dichloropropane | 78-87-5 | 8260B | ND | | 1.0 | 0.19 | ug/L | 1 |
| cis-1,3-Dichloropropene | 10061-01-5 | 8260B | ND | | 1.0 | 0.092 | ug/L | 1 |
| trans-1,3-Dichloropropene | 10061-02-6 | 8260B | ND | | 1.0 | 0.11 | ug/L | 1 |
| Ethylbenzene | 100-41-4 | 8260B | ND | | 1.0 | 0.33 | ug/L | 1 |
| 2-Hexanone | 591-78-6 | 8260B | ND | | 10 | 0.27 | ug/L | 1 |
| Methyl iodide (Iodomethane) | 74-88-4 | 8260B | ND | | 5.0 | 1.2 | ug/L | 1 |
| 4-Methyl-2-pentanone | 108-10-1 | 8260B | ND | | 10 | 0.31 | ug/L | 1 |
| Methylene chloride | 75-09-2 | 8260B | ND | | 1.0 | 0.33 | ug/L | 1 |
| Styrene | 100-42-5 | 8260B | ND | | 1.0 | 0.12 | ug/L | 1 |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | 8260B | ND | | 1.0 | 0.20 | ug/L | 1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 8260B | ND | | 1.0 | 0.16 | ug/L | 1 |
| **Tetrachloroethene** | **127-18-4** | **8260B** | **0.15** | **J** | **1.0** | **0.13** | **ug/L** | **1** |
| Toluene | 108-88-3 | 8260B | ND | | 1.0 | 0.33 | ug/L | 1 |
| 1,1,1-Trichloroethane | 71-55-6 | 8260B | ND | | 1.0 | 0.074 | ug/L | 1 |
| 1,1,2-Trichloroethane | 79-00-5 | 8260B | ND | | 1.0 | 0.21 | ug/L | 1 |
| Trichloroethene | 79-01-6 | 8260B | ND | | 1.0 | 0.18 | ug/L | 1 |
| Trichlorofluoromethane | 75-69-4 | 8260B | ND | | 1.0 | 0.30 | ug/L | 1 |
| 1,2,3-Trichloropropane | 96-18-4 | 8260B | ND | | 1.0 | 0.33 | ug/L | 1 |

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

# Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Description: **MW-3**
Date Sampled: **09/16/2010 1720**
Date Received: **09/17/2010**

Laboratory ID: **LI17066-003**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 5030B | 8260B | 1 | 09/21/2010 1540 | DLB | | 42861 |

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

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | | 102 | 70-130 |
| Bromofluorobenzene | | 105 | 70-130 |
| Toluene-d8 | | 114 | 70-130 |

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

# ICP-MS

Client: **Buxton Environmental**
Description: **MW-3**
Date Sampled: **09/16/2010 1720**
Date Received: **09/17/2010**

Laboratory ID: **LI17066-003**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 3005A | 6020A | 1 | 09/23/2010 0357 | KJC | 09/20/2010 2120 | 42709 |
| 2 | 3005A | 6020A | 1 | 09/29/2010 1051 | KJC | 09/20/2010 2120 | 42709 |
| 3 | 3005A | 6020A | 2 | 09/29/2010 1139 | KJC | 09/20/2010 2120 | 42709 |

| Parameter | CAS Number | Analytical Method | Result | Q | PQL | MDL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| Antimony | 7440-36-0 | 6020A | ND | | 1.0 | 0.097 | ug/L | 1 |
| Arsenic | 7440-38-2 | 6020A | ND | | 2.0 | 0.52 | ug/L | 3 |
| **Barium** | **7440-39-3** | **6020A** | **110** | **B** | **5.0** | **0.045** | **ug/L** | **1** |
| **Beryllium** | **7440-41-7** | **6020A** | **0.27** | **BJ** | **0.40** | **0.028** | **ug/L** | **1** |
| **Cadmium** | **7440-43-9** | **6020A** | **0.85** | | **0.10** | **0.059** | **ug/L** | **2** |
| **Chromium** | **7440-47-3** | **6020A** | **7.0** | | **5.0** | **0.35** | **ug/L** | **2** |
| **Cobalt** | **7440-48-4** | **6020A** | **7.3** | **B** | **5.0** | **0.029** | **ug/L** | **2** |
| **Copper** | **7440-50-8** | **6020A** | **11** | **B** | **1.0** | **0.15** | **ug/L** | **2** |
| **Lead** | **7439-92-1** | **6020A** | **2.5** | **B** | **1.0** | **0.047** | **ug/L** | **1** |
| **Nickel** | **7440-02-0** | **6020A** | **5.5** | | **5.0** | **0.28** | **ug/L** | **2** |
| **Selenium** | **7782-49-2** | **6020A** | **1.2** | **BJ** | **2.0** | **0.51** | **ug/L** | **3** |
| **Silver** | **7440-22-4** | **6020A** | **0.35** | **BJ** | **1.0** | **0.011** | **ug/L** | **1** |
| Thallium | 7440-28-0 | 6020A | ND | | 0.50 | 0.076 | ug/L | 1 |
| **Vanadium** | **7440-62-2** | **6020A** | **26** | | **5.0** | **1.5** | **ug/L** | **2** |
| **Zinc** | **7440-66-6** | **6020A** | **21** | | **10** | **1.5** | **ug/L** | **2** |

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

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

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

# CVAA

Client: **Buxton Environmental**
Description: **MW-3**
Date Sampled: **09/16/2010 1720**
Date Received: **09/17/2010**

Laboratory ID: **LI17066-003**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | | 7470A | 1 | 09/21/2010 1842 | KJC | 09/20/2010 1925 | 42508 |

| Parameter | CAS Number | Analytical Method | Result | Q | PQL | MDL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| **Mercury** | **7439-97-6** | **7470A** | **0.00019** | | **0.00010** | **0.000053** | **mg/L** | **1** |

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

# Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **LI17066-004**
Description: **MW-4**
Matrix: **Aqueous**
Date Sampled: **09/16/2010 1800**
Date Received: **09/17/2010**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 5030B | 8260B | 2 | 09/21/2010 1959 | DLB | | 42861 |

| Parameter | CAS Number | Analytical Method | Result | Q | PQL | MDL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| Acetone | 67-64-1 | 8260B | ND | | 40 | 13 | ug/L | 1 |
| Acrylonitrile | 107-13-1 | 8260B | ND | | 40 | 2.4 | ug/L | 1 |
| **Benzene** | **71-43-2** | **8260B** | **1.5** | **J** | **2.0** | **0.26** | **ug/L** | **1** |
| Bromochloromethane | 74-97-5 | 8260B | ND | | 2.0 | 0.32 | ug/L | 1 |
| Bromodichloromethane | 75-27-4 | 8260B | ND | | 2.0 | 0.66 | ug/L | 1 |
| Bromoform | 75-25-2 | 8260B | ND | | 2.0 | 1.3 | ug/L | 1 |
| Bromomethane (Methyl bromide) | 74-83-9 | 8260B | ND | | 4.0 | 1.6 | ug/L | 1 |
| 2-Butanone (MEK) | 78-93-3 | 8260B | ND | | 20 | 4.1 | ug/L | 1 |
| Carbon disulfide | 75-15-0 | 8260B | ND | | 2.0 | 0.19 | ug/L | 1 |
| Carbon tetrachloride | 56-23-5 | 8260B | ND | | 2.0 | 0.27 | ug/L | 1 |
| **Chlorobenzene** | **108-90-7** | **8260B** | **1.3** | **J** | **2.0** | **0.66** | **ug/L** | **1** |
| **Chloroethane** | **75-00-3** | **8260B** | **9.7** | | **4.0** | **0.94** | **ug/L** | **1** |
| Chloroform | 67-66-3 | 8260B | ND | | 2.0 | 0.66 | ug/L | 1 |
| Chloromethane (Methyl chloride) | 74-87-3 | 8260B | ND | | 2.0 | 0.70 | ug/L | 1 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | 8260B | ND | | 2.0 | 1.2 | ug/L | 1 |
| Dibromochloromethane | 124-48-1 | 8260B | ND | | 2.0 | 0.66 | ug/L | 1 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8260B | ND | | 2.0 | 0.60 | ug/L | 1 |
| Dibromomethane (Methylene bromide) | 74-95-3 | 8260B | ND | | 2.0 | 0.70 | ug/L | 1 |
| trans-1,4-Dichloro-2-butene | 110-57-6 | 8260B | ND | | 4.0 | 1.7 | ug/L | 1 |
| **1,2-Dichlorobenzene** | **95-50-1** | **8260B** | **2.0** | | **2.0** | **0.66** | **ug/L** | **1** |
| **1,4-Dichlorobenzene** | **106-46-7** | **8260B** | **12** | | **2.0** | **0.66** | **ug/L** | **1** |
| **1,1-Dichloroethane** | **75-34-3** | **8260B** | **93** | | **2.0** | **0.26** | **ug/L** | **1** |
| 1,2-Dichloroethane | 107-06-2 | 8260B | ND | | 2.0 | 0.29 | ug/L | 1 |
| **1,1-Dichloroethene** | **75-35-4** | **8260B** | **0.51** | **J** | **2.0** | **0.32** | **ug/L** | **1** |
| **cis-1,2-Dichloroethene** | **156-59-2** | **8260B** | **420** | | **2.0** | **0.24** | **ug/L** | **1** |
| **trans-1,2-Dichloroethene** | **156-60-5** | **8260B** | **2.4** | | **2.0** | **0.41** | **ug/L** | **1** |
| **1,2-Dichloropropane** | **78-87-5** | **8260B** | **2.3** | | **2.0** | **0.38** | **ug/L** | **1** |
| cis-1,3-Dichloropropene | 10061-01-5 | 8260B | ND | | 2.0 | 0.18 | ug/L | 1 |
| trans-1,3-Dichloropropene | 10061-02-6 | 8260B | ND | | 2.0 | 0.21 | ug/L | 1 |
| Ethylbenzene | 100-41-4 | 8260B | ND | | 2.0 | 0.66 | ug/L | 1 |
| 2-Hexanone | 591-78-6 | 8260B | ND | | 20 | 0.55 | ug/L | 1 |
| Methyl iodide (Iodomethane) | 74-88-4 | 8260B | ND | | 10 | 2.4 | ug/L | 1 |
| 4-Methyl-2-pentanone | 108-10-1 | 8260B | ND | | 20 | 0.62 | ug/L | 1 |
| Methylene chloride | 75-09-2 | 8260B | ND | | 2.0 | 0.66 | ug/L | 1 |
| Styrene | 100-42-5 | 8260B | ND | | 2.0 | 0.24 | ug/L | 1 |
| 1,1,1,2-Tetrachloroethane. | 630-20-6 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 8260B | ND | | 2.0 | 0.33 | ug/L | 1 |
| Tetrachloroethene | 127-18-4 | 8260B | ND | | 2.0 | 0.26 | ug/L | 1 |
| Toluene | 108-88-3 | 8260B | ND | | 2.0 | 0.66 | ug/L | 1 |
| 1,1,1-Trichloroethane | 71-55-6 | 8260B | ND | | 2.0 | 0.15 | ug/L | 1 |
| 1,1,2-Trichloroethane | 79-00-5 | 8260B | ND | | 2.0 | 0.42 | ug/L | 1 |
| **Trichloroethene** | **79-01-6** | **8260B** | **2.2** | | **2.0** | **0.36** | **ug/L** | **1** |
| Trichlorofluoromethane | 75-69-4 | 8260B | ND | | 2.0 | 0.60 | ug/L | 1 |
| 1,2,3-Trichloropropane | 96-18-4 | 8260B | ND | | 2.0 | 0.66 | ug/L | 1 |

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

# Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **LI17066-004**
Description: **MW-4**
Matrix: **Aqueous**
Date Sampled: **09/16/2010 1800**
Date Received: **09/17/2010**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 5030B | 8260B | 2 | 09/21/2010 1959 | DLB | | 42861 |

| Parameter | CAS Number | Analytical Method | Result | Q | PQL | MDL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| Vinyl acetate | 108-05-4 | 8260B | ND | | 10 | 2.6 | ug/L | 1 |
| **Vinyl chloride** | **75-01-4** | **8260B** | **33** | | **2.0** | **0.11** | **ug/L** | **1** |
| Xylenes (total) | 1330-20-7 | 8260B | ND | | 2.0 | 0.66 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | | 106 | 70-130 |
| Bromofluorobenzene | | 106 | 70-130 |
| Toluene-d8 | | 110 | 70-130 |

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

# ICP-MS

Client: **Buxton Environmental**
Description: **MW-4**
Date Sampled: **09/16/2010 1800**
Date Received: **09/17/2010**

Laboratory ID: **LI17066-004**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 3005A | 6020A | 1 | 09/23/2010 0404 | KJC | 09/20/2010 2120 | 42709 |
| 2 | 3005A | 6020A | 1 | 09/29/2010 1057 | KJC | 09/20/2010 2120 | 42709 |

| Parameter | CAS Number | Analytical Method | Result | Q | PQL | MDL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| Antimony | 7440-36-0 | 6020A | ND | | 1.0 | 0.097 | ug/L | 1 |
| **Arsenic** | **7440-38-2** | **6020A** | **0.71** | **J** | **1.0** | **0.26** | **ug/L** | **1** |
| **Barium** | **7440-39-3** | **6020A** | **120** | **B** | **5.0** | **0.045** | **ug/L** | **1** |
| Beryllium | 7440-41-7 | 6020A | ND | | 0.40 | 0.028 | ug/L | 1 |
| **Cadmium** | **7440-43-9** | **6020A** | **0.25** | | **0.10** | **0.059** | **ug/L** | **2** |
| Chromium | 7440-47-3 | 6020A | ND | | 5.0 | 0.35 | ug/L | 1 |
| **Cobalt** | **7440-48-4** | **6020A** | **90** | **B** | **5.0** | **0.029** | **ug/L** | **1** |
| **Copper** | **7440-50-8** | **6020A** | **0.61** | **BJ** | **1.0** | **0.15** | **ug/L** | **1** |
| **Lead** | **7439-92-1** | **6020A** | **0.062** | **BJ** | **1.0** | **0.047** | **ug/L** | **1** |
| Nickel | 7440-02-0 | 6020A | ND | | 5.0 | 0.28 | ug/L | 1 |
| **Selenium** | **7782-49-2** | **6020A** | **2.3** | **B** | **1.0** | **0.25** | **ug/L** | **2** |
| **Silver** | **7440-22-4** | **6020A** | **0.087** | **BJ** | **1.0** | **0.011** | **ug/L** | **1** |
| Thallium | 7440-28-0 | 6020A | ND | | 0.50 | 0.076 | ug/L | 1 |
| **Vanadium** | **7440-62-2** | **6020A** | **1.6** | **J** | **5.0** | **1.5** | **ug/L** | **1** |
| **Zinc** | **7440-66-6** | **6020A** | **4.9** | **J** | **10** | **1.5** | **ug/L** | **2** |

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

# CVAA

Client: **Buxton Environmental**
Description: **MW-4**
Date Sampled: **09/16/2010 1800**
Date Received: **09/17/2010**

Laboratory ID: **LI17066-004**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | | 7470A | 1 | 09/21/2010 1847 | KJC | 09/20/2010 1925 | 42508 |

| Parameter | CAS Number | Analytical Method | Result | Q | PQL | MDL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| **Mercury** | **7439-97-6** | **7470A** | **0.00016** | | **0.00010** | **0.000053** | **mg/L** | **1** |

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

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

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

# Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Description: **MW-5**
Date Sampled: **09/16/2010 1830**
Date Received: **09/17/2010**

Laboratory ID: **LI17066-005**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 5030B | 8260B | 1 | 09/21/2010 1602 | DLB | | 42861 |

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

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

# Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Description: **MW-5**
Date Sampled: **09/16/2010 1830**
Date Received: **09/17/2010**

Laboratory ID: **LI17066-005**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 5030B | 8260B | 1 | 09/21/2010 1602 | DLB | | 42861 |

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

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | | 106 | 70-130 |
| Bromofluorobenzene | | 107 | 70-130 |
| Toluene-d8 | | 114 | 70-130 |

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

# ICP-MS

Client: **Buxton Environmental**
Description: **MW-5**
Date Sampled: **09/16/2010 1830**
Date Received: **09/17/2010**

Laboratory ID: **LI17066-005**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 3005A | 6020A | 1 | 09/23/2010 0412 | KJC | 09/20/2010 2120 | 42709 |
| 2 | 3005A | 6020A | 1 | 09/29/2010 1104 | KJC | 09/20/2010 2120 | 42709 |

| Parameter | CAS Number | Analytical Method | Result | Q | PQL | MDL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| **Antimony** | **7440-36-0** | **6020A** | **0.39** | **J** | **1.0** | **0.097** | **ug/L** | **1** |
| Arsenic | 7440-38-2 | 6020A | ND | | 1.0 | 0.26 | ug/L | 2 |
| **Barium** | **7440-39-3** | **6020A** | **61** | **B** | **5.0** | **0.045** | **ug/L** | **1** |
| Beryllium | 7440-41-7 | 6020A | ND | | 0.40 | 0.028 | ug/L | 1 |
| **Cadmium** | **7440-43-9** | **6020A** | **0.24** | | **0.10** | **0.059** | **ug/L** | **2** |
| **Chromium** | **7440-47-3** | **6020A** | **0.88** | **J** | **5.0** | **0.35** | **ug/L** | **1** |
| **Cobalt** | **7440-48-4** | **6020A** | **0.42** | **BJ** | **5.0** | **0.029** | **ug/L** | **1** |
| **Copper** | **7440-50-8** | **6020A** | **1.6** | **B** | **1.0** | **0.15** | **ug/L** | **1** |
| **Lead** | **7439-92-1** | **6020A** | **0.20** | **BJ** | **1.0** | **0.047** | **ug/L** | **1** |
| **Nickel** | **7440-02-0** | **6020A** | **0.58** | **J** | **5.0** | **0.28** | **ug/L** | **1** |
| **Selenium** | **7782-49-2** | **6020A** | **0.60** | **BJ** | **1.0** | **0.25** | **ug/L** | **2** |
| **Silver** | **7440-22-4** | **6020A** | **0.088** | **BJ** | **1.0** | **0.011** | **ug/L** | **1** |
| Thallium | 7440-28-0 | 6020A | ND | | 0.50 | 0.076 | ug/L | 1 |
| **Vanadium** | **7440-62-2** | **6020A** | **2.0** | **J** | **5.0** | **1.5** | **ug/L** | **1** |
| **Zinc** | **7440-66-6** | **6020A** | **3.1** | **J** | **10** | **1.5** | **ug/L** | **2** |

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

# CVAA

Client: **Buxton Environmental**
Description: **MW-5**
Date Sampled: **09/16/2010 1830**
Date Received: **09/17/2010**

Laboratory ID: **LI17066-005**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | | 7470A | 1 | 09/21/2010 1932 | KJC | 09/20/2010 1925 | 42508 |

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

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

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

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

# Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Description: **MW-6**
Date Sampled: **09/16/2010 1445**
Date Received: **09/17/2010**

Laboratory ID: **LI17066-006**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 5030B | 8260B | 1 | 09/21/2010 1623 | DLB | | 42861 |

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

# Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Description: **MW-6**
Date Sampled: **09/16/2010 1445**
Date Received: **09/17/2010**

Laboratory ID: **LI17066-006**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 5030B | 8260B | 1 | 09/21/2010 1623 | DLB | | 42861 |

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

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | | 106 | 70-130 |
| Bromofluorobenzene | | 105 | 70-130 |
| Toluene-d8 | | 115 | 70-130 |

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

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

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

# ICP-MS

Client: **Buxton Environmental**
Description: **MW-6**
Date Sampled: **09/16/2010 1445**
Date Received: **09/17/2010**

Laboratory ID: **LI17066-006**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 3005A | 6020A | 1 | 09/23/2010 0458 | KJC | 09/20/2010 2120 | 42710 |
| 2 | 3005A | 6020A | 1 | 09/29/2010 2233 | FTS | 09/20/2010 2120 | 42710 |

| Parameter | CAS Number | Analytical Method | Result | Q | PQL | MDL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| Antimony | 7440-36-0 | 6020A | 0.76 | J | 1.0 | 0.097 | ug/L | 1 |
| Arsenic | 7440-38-2 | 6020A | ND | | 1.0 | 0.26 | ug/L | 1 |
| Barium | 7440-39-3 | 6020A | 82 | B | 5.0 | 0.045 | ug/L | 1 |
| Beryllium | 7440-41-7 | 6020A | 0.23 | BJ | 0.40 | 0.028 | ug/L | 1 |
| Cadmium | 7440-43-9 | 6020A | 0.36 | | 0.10 | 0.059 | ug/L | 2 |
| Chromium | 7440-47-3 | 6020A | 0.81 | J | 5.0 | 0.35 | ug/L | 1 |
| Cobalt | 7440-48-4 | 6020A | 2.7 | BJ | 5.0 | 0.029 | ug/L | 1 |
| Copper | 7440-50-8 | 6020A | 1.4 | | 1.0 | 0.15 | ug/L | 1 |
| Lead | 7439-92-1 | 6020A | 0.42 | BJ | 1.0 | 0.047 | ug/L | 1 |
| Nickel | 7440-02-0 | 6020A | 0.58 | J | 5.0 | 0.28 | ug/L | 1 |
| Selenium | 7782-49-2 | 6020A | 0.72 | J | 1.0 | 0.25 | ug/L | 2 |
| Silver | 7440-22-4 | 6020A | 0.20 | BJ | 1.0 | 0.011 | ug/L | 1 |
| Thallium | 7440-28-0 | 6020A | 0.14 | J | 0.50 | 0.076 | ug/L | 1 |
| Vanadium | 7440-62-2 | 6020A | 2.4 | J | 5.0 | 1.5 | ug/L | 1 |
| Zinc | 7440-66-6 | 6020A | 5.7 | BJ | 10 | 1.5 | ug/L | 2 |

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

# CVAA

Client: **Buxton Environmental**
Description: **MW-6**
Date Sampled: **09/16/2010 1445**
Date Received: **09/17/2010**

Laboratory ID: **LI17066-006**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | | 7470A | 1 | 09/21/2010 1935 | KJC | 09/20/2010 1925 | 42508 |

| Parameter | CAS Number | Analytical Method | Result | Q | PQL | MDL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| **Mercury** | **7439-97-6** | **7470A** | **0.00011** | | **0.00010** | **0.000053** | **mg/L** | **1** |

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

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

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

# Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **LI17066-007**
Description: **MW-7A**
Matrix: **Aqueous**
Date Sampled: **09/16/2010 1545**
Date Received: **09/17/2010**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 5030B | 8260B | 1 | 09/21/2010 1645 | DLB | | 42861 |

| Parameter | CAS Number | Analytical Method | Result | Q | PQL | MDL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| Acetone | 67-64-1 | 8260B | ND | | 20 | 6.7 | ug/L | 1 |
| Acrylonitrile | 107-13-1 | 8260B | ND | | 20 | 1.2 | ug/L | 1 |
| **Benzene** | **71-43-2** | **8260B** | **7.2** | | **1.0** | **0.13** | **ug/L** | **1** |
| Bromochloromethane | 74-97-5 | 8260B | ND | | 1.0 | 0.16 | ug/L | 1 |
| Bromodichloromethane | 75-27-4 | 8260B | ND | | 1.0 | 0.33 | ug/L | 1 |
| Bromoform | 75-25-2 | 8260B | ND | | 1.0 | 0.66 | ug/L | 1 |
| Bromomethane (Methyl bromide) | 74-83-9 | 8260B | ND | | 2.0 | 0.80 | 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** | **6.3** | | **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** | **1.7** | | **1.0** | **0.33** | **ug/L** | **1** |
| **1,1-Dichloroethane** | **75-34-3** | **8260B** | **30** | | **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** | **0.32** | **J** | **1.0** | **0.16** | **ug/L** | **1** |
| **cis-1,2-Dichloroethene** | **156-59-2** | **8260B** | **46** | | **1.0** | **0.12** | **ug/L** | **1** |
| **trans-1,2-Dichloroethene** | **156-60-5** | **8260B** | **0.34** | **J** | **1.0** | **0.21** | **ug/L** | **1** |
| 1,2-Dichloropropane | 78-87-5 | 8260B | ND | | 1.0 | 0.19 | ug/L | 1 |
| cis-1,3-Dichloropropene | 10061-01-5 | 8260B | ND | | 1.0 | 0.092 | ug/L | 1 |
| trans-1,3-Dichloropropene | 10061-02-6 | 8260B | ND | | 1.0 | 0.11 | ug/L | 1 |
| Ethylbenzene | 100-41-4 | 8260B | ND | | 1.0 | 0.33 | ug/L | 1 |
| 2-Hexanone | 591-78-6 | 8260B | ND | | 10 | 0.27 | ug/L | 1 |
| Methyl iodide (Iodomethane) | 74-88-4 | 8260B | ND | | 5.0 | 1.2 | ug/L | 1 |
| 4-Methyl-2-pentanone | 108-10-1 | 8260B | ND | | 10 | 0.31 | ug/L | 1 |
| **Methylene chloride** | **75-09-2** | **8260B** | **1.7** | | **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** | **15** | | **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** | **12** | | **1.0** | **0.18** | **ug/L** | **1** |
| Trichlorofluoromethane | 75-69-4 | 8260B | ND | | 1.0 | 0.30 | ug/L | 1 |
| 1,2,3-Trichloropropane | 96-18-4 | 8260B | ND | | 1.0 | 0.33 | ug/L | 1 |

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

# Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **LI17066-007**
Description: **MW-7A**
Matrix: **Aqueous**
Date Sampled: **09/16/2010 1545**
Date Received: **09/17/2010**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 5030B | 8260B | 1 | 09/21/2010 1645 | DLB | | 42861 |

| 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** | **6.2** | | **1.0** | **0.054** | **ug/L** | **1** |
| **Xylenes (total)** | **1330-20-7** | **8260B** | **0.61** | **J** | **1.0** | **0.33** | **ug/L** | **1** |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | | 105 | 70-130 |
| Bromofluorobenzene | | 107 | 70-130 |
| Toluene-d8 | | 112 | 70-130 |

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

# ICP-MS

Client: **Buxton Environmental**
Laboratory ID: **LI17066-007**
Description: **MW-7A**
Matrix: **Aqueous**
Date Sampled: **09/16/2010 1545**
Date Received: **09/17/2010**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 3005A | 6020A | 1 | 09/23/2010 0506 | KJC | 09/20/2010 2120 | 42710 |
| 2 | 3005A | 6020A | 1 | 09/29/2010 2242 | FTS | 09/20/2010 2120 | 42710 |

| Parameter | CAS Number | Analytical Method | Result | Q | PQL | MDL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| **Antimony** | **7440-36-0** | **6020A** | **0.12** | **J** | **1.0** | **0.097** | **ug/L** | **1** |
| **Arsenic** | **7440-38-2** | **6020A** | **0.32** | **J** | **1.0** | **0.26** | **ug/L** | **1** |
| **Barium** | **7440-39-3** | **6020A** | **110** | **B** | **5.0** | **0.045** | **ug/L** | **1** |
| **Beryllium** | **7440-41-7** | **6020A** | **0.048** | **BJ** | **0.40** | **0.028** | **ug/L** | **1** |
| **Cadmium** | **7440-43-9** | **6020A** | **0.24** | | **0.10** | **0.059** | **ug/L** | **2** |
| **Chromium** | **7440-47-3** | **6020A** | **0.60** | **J** | **5.0** | **0.35** | **ug/L** | **1** |
| **Cobalt** | **7440-48-4** | **6020A** | **0.73** | **BJ** | **5.0** | **0.029** | **ug/L** | **1** |
| **Copper** | **7440-50-8** | **6020A** | **0.23** | **J** | **1.0** | **0.15** | **ug/L** | **1** |
| **Lead** | **7439-92-1** | **6020A** | **0.059** | **BJ** | **1.0** | **0.047** | **ug/L** | **1** |
| **Nickel** | **7440-02-0** | **6020A** | **0.87** | **J** | **5.0** | **0.28** | **ug/L** | **1** |
| **Selenium** | **7782-49-2** | **6020A** | **0.38** | **J** | **1.0** | **0.25** | **ug/L** | **2** |
| **Silver** | **7440-22-4** | **6020A** | **0.11** | **BJ** | **1.0** | **0.011** | **ug/L** | **1** |
| Thallium | 7440-28-0 | 6020A | ND | | 0.50 | 0.076 | ug/L | 1 |
| **Vanadium** | **7440-62-2** | **6020A** | **1.7** | **J** | **5.0** | **1.5** | **ug/L** | **1** |
| **Zinc** | **7440-66-6** | **6020A** | **2.8** | **BJ** | **10** | **1.5** | **ug/L** | **2** |

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

# CVAA

Client: **Buxton Environmental**
Description: **MW-7A**
Date Sampled: **09/16/2010 1545**
Date Received: **09/17/2010**

Laboratory ID: **LI17066-007**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | | 7470A | 1 | 09/21/2010 1937 | KJC | 09/20/2010 1925 | 42508 |

| Parameter | CAS Number | Analytical Method | Result | Q | PQL | MDL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| **Mercury** | **7439-97-6** | **7470A** | **0.000077** | **J** | **0.00010** | **0.000053** | **mg/L** | **1** |

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

# Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **LI17066-008**
Description: **MW-7B**
Matrix: **Aqueous**
Date Sampled: **09/16/2010 1515**
Date Received: **09/17/2010**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 5030B | 8260B | 1 | 09/21/2010 1706 | DLB | | 42861 |

| 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** | **9.9** | | **1.0** | **0.13** | **ug/L** | **1** |
| Bromochloromethane | 74-97-5 | 8260B | ND | | 1.0 | 0.16 | ug/L | 1 |
| Bromodichloromethane | 75-27-4 | 8260B | ND | | 1.0 | 0.33 | ug/L | 1 |
| Bromoform | 75-25-2 | 8260B | ND | | 1.0 | 0.66 | ug/L | 1 |
| Bromomethane (Methyl bromide) | 74-83-9 | 8260B | ND | | 2.0 | 0.80 | ug/L | 1 |
| 2-Butanone (MEK) | 78-93-3 | 8260B | ND | | 10 | 2.0 | ug/L | 1 |
| Carbon disulfide | 75-15-0 | 8260B | ND | | 1.0 | 0.097 | ug/L | 1 |
| Carbon tetrachloride | 56-23-5 | 8260B | ND | | 1.0 | 0.14 | ug/L | 1 |
| Chlorobenzene | 108-90-7 | 8260B | ND | | 1.0 | 0.33 | ug/L | 1 |
| **Chloroethane** | **75-00-3** | **8260B** | **8.3** | | **2.0** | **0.47** | **ug/L** | **1** |
| Chloroform | 67-66-3 | 8260B | ND | | 1.0 | 0.33 | ug/L | 1 |
| Chloromethane (Methyl chloride) | 74-87-3 | 8260B | ND | | 1.0 | 0.35 | ug/L | 1 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | 8260B | ND | | 1.0 | 0.60 | ug/L | 1 |
| Dibromochloromethane | 124-48-1 | 8260B | ND | | 1.0 | 0.33 | ug/L | 1 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8260B | ND | | 1.0 | 0.30 | ug/L | 1 |
| Dibromomethane (Methylene bromide) | 74-95-3 | 8260B | ND | | 1.0 | 0.35 | ug/L | 1 |
| trans-1,4-Dichloro-2-butene | 110-57-6 | 8260B | ND | | 2.0 | 0.83 | ug/L | 1 |
| 1,2-Dichlorobenzene | 95-50-1 | 8260B | ND | | 1.0 | 0.33 | ug/L | 1 |
| **1,4-Dichlorobenzene** | **106-46-7** | **8260B** | **4.8** | | **1.0** | **0.33** | **ug/L** | **1** |
| **1,1-Dichloroethane** | **75-34-3** | **8260B** | **42** | | **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** | **0.40** | **J** | **1.0** | **0.16** | **ug/L** | **1** |
| **cis-1,2-Dichloroethene** | **156-59-2** | **8260B** | **78** | | **1.0** | **0.12** | **ug/L** | **1** |
| **trans-1,2-Dichloroethene** | **156-60-5** | **8260B** | **0.46** | **J** | **1.0** | **0.21** | **ug/L** | **1** |
| 1,2-Dichloropropane | 78-87-5 | 8260B | ND | | 1.0 | 0.19 | ug/L | 1 |
| cis-1,3-Dichloropropene | 10061-01-5 | 8260B | ND | | 1.0 | 0.092 | ug/L | 1 |
| trans-1,3-Dichloropropene | 10061-02-6 | 8260B | ND | | 1.0 | 0.11 | ug/L | 1 |
| Ethylbenzene | 100-41-4 | 8260B | ND | | 1.0 | 0.33 | ug/L | 1 |
| 2-Hexanone | 591-78-6 | 8260B | ND | | 10 | 0.27 | ug/L | 1 |
| Methyl iodide (Iodomethane) | 74-88-4 | 8260B | ND | | 5.0 | 1.2 | ug/L | 1 |
| 4-Methyl-2-pentanone | 108-10-1 | 8260B | ND | | 10 | 0.31 | ug/L | 1 |
| **Methylene chloride** | **75-09-2** | **8260B** | **1.5** | | **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** | **13** | | **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** | **18** | | **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
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E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
N = Recovery is out of criteria
H = Out of holding time

# Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Description: **MW-7B**
Date Sampled: **09/16/2010 1515**
Date Received: **09/17/2010**

Laboratory ID: **LI17066-008**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 5030B | 8260B | 1 | 09/21/2010 1706 | DLB | | 42861 |

| 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** | **8.6** | | **1.0** | **0.054** | **ug/L** | **1** |
| Xylenes (total) | 1330-20-7 | 8260B | ND | | 1.0 | 0.33 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | | 103 | 70-130 |
| Bromofluorobenzene | | 104 | 70-130 |
| Toluene-d8 | | 111 | 70-130 |

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

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

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

# ICP-MS

Client: **Buxton Environmental**
Description: **MW-7B**
Date Sampled: **09/16/2010 1515**
Date Received: **09/17/2010**

Laboratory ID: **LI17066-008**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 3005A | 6020A | 1 | 09/23/2010 0514 | KJC | 09/20/2010 2120 | 42710 |
| 2 | 3005A | 6020A | 1 | 09/29/2010 2252 | FTS | 09/20/2010 2120 | 42710 |

| Parameter | CAS Number | Analytical Method | Result | Q | PQL | MDL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| Antimony | 7440-36-0 | 6020A | ND | | 1.0 | 0.097 | ug/L | 1 |
| Arsenic | 7440-38-2 | 6020A | ND | | 1.0 | 0.26 | ug/L | 1 |
| **Barium** | **7440-39-3** | **6020A** | **140** | **B** | **5.0** | **0.045** | **ug/L** | **1** |
| Beryllium | 7440-41-7 | 6020A | ND | | 0.40 | 0.028 | ug/L | 1 |
| **Cadmium** | **7440-43-9** | **6020A** | **0.26** | | **0.10** | **0.059** | **ug/L** | **2** |
| **Chromium** | **7440-47-3** | **6020A** | **0.67** | **J** | **5.0** | **0.35** | **ug/L** | **1** |
| **Cobalt** | **7440-48-4** | **6020A** | **0.56** | **BJ** | **5.0** | **0.029** | **ug/L** | **1** |
| **Copper** | **7440-50-8** | **6020A** | **2.2** | | **1.0** | **0.15** | **ug/L** | **1** |
| **Lead** | **7439-92-1** | **6020A** | **0.16** | **BJ** | **1.0** | **0.047** | **ug/L** | **1** |
| **Nickel** | **7440-02-0** | **6020A** | **1.3** | **J** | **5.0** | **0.28** | **ug/L** | **1** |
| Selenium | 7782-49-2 | 6020A | ND | | 1.0 | 0.25 | ug/L | 2 |
| **Silver** | **7440-22-4** | **6020A** | **0.11** | **BJ** | **1.0** | **0.011** | **ug/L** | **1** |
| Thallium | 7440-28-0 | 6020A | ND | | 0.50 | 0.076 | ug/L | 1 |
| **Vanadium** | **7440-62-2** | **6020A** | **1.9** | **J** | **5.0** | **1.5** | **ug/L** | **1** |
| **Zinc** | **7440-66-6** | **6020A** | **5.0** | **BJ** | **10** | **1.5** | **ug/L** | **2** |

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

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

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

# CVAA

Client: **Buxton Environmental**
Description: **MW-7B**
Date Sampled: **09/16/2010 1515**
Date Received: **09/17/2010**

Laboratory ID: **LI17066-008**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | | 7470A | 1 | 09/21/2010 1940 | KJC | 09/20/2010 1925 | 42508 |

| Parameter | CAS Number | Analytical Method | Result | Q | PQL | MDL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| **Mercury** | **7439-97-6** | **7470A** | **0.000056** | **J** | **0.00010** | **0.000053** | **mg/L** | **1** |

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

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

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

# Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **LI17066-009**
Description: **MW-8A**
Matrix: **Aqueous**
Date Sampled: **09/16/2010 1615**
Date Received: **09/17/2010**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 5030B | 8260B | 1 | 09/21/2010 1728 | DLB | | 42861 |

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

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

# Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **LI17066-009**
Description: **MW-8A**
Matrix: **Aqueous**
Date Sampled: **09/16/2010 1615**
Date Received: **09/17/2010**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 5030B | 8260B | 1 | 09/21/2010 1728 | DLB | | 42861 |

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

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | | 106 | 70-130 |
| Bromofluorobenzene | | 106 | 70-130 |
| Toluene-d8 | | 113 | 70-130 |

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

# ICP-MS

Client: **Buxton Environmental**
Laboratory ID: **LI17066-009**
Description: **MW-8A**
Matrix: **Aqueous**
Date Sampled: **09/16/2010 1615**
Date Received: **09/17/2010**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 3005A | 6020A | 1 | 09/23/2010 0522 | KJC | 09/20/2010 2120 | 42710 |
| 2 | 3005A | 6020A | 1 | 09/29/2010 2302 | FTS | 09/20/2010 2120 | 42710 |

| Parameter | CAS Number | Analytical Method | Result | Q | PQL | MDL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| Antimony | 7440-36-0 | 6020A | ND | | 1.0 | 0.097 | ug/L | 1 |
| Arsenic | 7440-38-2 | 6020A | ND | | 1.0 | 0.26 | ug/L | 1 |
| **Barium** | **7440-39-3** | **6020A** | **15** | **B** | **5.0** | **0.045** | **ug/L** | **1** |
| Beryllium | 7440-41-7 | 6020A | ND | | 0.40 | 0.028 | ug/L | 1 |
| **Cadmium** | **7440-43-9** | **6020A** | **0.26** | | **0.10** | **0.059** | **ug/L** | **2** |
| **Chromium** | **7440-47-3** | **6020A** | **0.81** | **J** | **5.0** | **0.35** | **ug/L** | **1** |
| **Cobalt** | **7440-48-4** | **6020A** | **0.084** | **BJ** | **5.0** | **0.029** | **ug/L** | **1** |
| **Copper** | **7440-50-8** | **6020A** | **0.31** | **J** | **1.0** | **0.15** | **ug/L** | **1** |
| **Lead** | **7439-92-1** | **6020A** | **0.060** | **BJ** | **1.0** | **0.047** | **ug/L** | **1** |
| Nickel | 7440-02-0 | 6020A | ND | | 5.0 | 0.28 | ug/L | 1 |
| Selenium | 7782-49-2 | 6020A | ND | | 1.0 | 0.25 | ug/L | 2 |
| **Silver** | **7440-22-4** | **6020A** | **0.10** | **BJ** | **1.0** | **0.011** | **ug/L** | **1** |
| Thallium | 7440-28-0 | 6020A | ND | | 0.50 | 0.076 | ug/L | 1 |
| **Vanadium** | **7440-62-2** | **6020A** | **1.7** | **J** | **5.0** | **1.5** | **ug/L** | **1** |
| **Zinc** | **7440-66-6** | **6020A** | **7.5** | **BJ** | **10** | **1.5** | **ug/L** | **2** |

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

# CVAA

Client: **Buxton Environmental**
Laboratory ID: **LI17066-009**
Description: **MW-8A**
Matrix: **Aqueous**
Date Sampled: **09/16/2010 1615**
Date Received: **09/17/2010**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | | 7470A | 1 | 09/21/2010 1942 | KJC | 09/20/2010 1925 | 42508 |

| Parameter | CAS Number | Analytical Method | Result | Q | PQL | MDL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| **Mercury** | **7439-97-6** | **7470A** | **0.000069** | **J** | **0.00010** | **0.000053** | **mg/L** | **1** |

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

# Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **LI17066-010**
Description: **MW-8B**
Matrix: **Aqueous**
Date Sampled: **09/16/2010 1600**
Date Received: **09/17/2010**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 5030B | 8260B | 1 | 09/21/2010 1749 | DLB | | 42861 |

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

# Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **LI17066-010**
Description: **MW-8B**
Matrix: **Aqueous**
Date Sampled: **09/16/2010 1600**
Date Received: **09/17/2010**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 5030B | 8260B | 1 | 09/21/2010 1749 | DLB | | 42861 |

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

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | | 103 | 70-130 |
| Bromofluorobenzene | | 103 | 70-130 |
| Toluene-d8 | | 111 | 70-130 |

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

# ICP-MS

Client: **Buxton Environmental**
Description: **MW-8B**
Date Sampled: **09/16/2010 1600**
Date Received: **09/17/2010**

Laboratory ID: **LI17066-010**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 3005A | 6020A | 1 | 09/23/2010 0529 | KJC | 09/20/2010 2120 | 42710 |
| 2 | 3005A | 6020A | 1 | 09/29/2010 2312 | FTS | 09/20/2010 2120 | 42710 |
| 3 | 3005A | 6020A | 10 | 09/30/2010 0121 | FTS | 09/20/2010 2120 | 42710 |

| Parameter | CAS Number | Analytical Method | Result | Q | PQL | MDL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| Antimony | 7440-36-0 | 6020A | ND | | 1.0 | 0.097 | ug/L | 1 |
| Arsenic | 7440-38-2 | 6020A | ND | | 10 | 2.6 | ug/L | 3 |
| **Barium** | **7440-39-3** | **6020A** | **290** | **B** | **5.0** | **0.045** | **ug/L** | **2** |
| **Beryllium** | **7440-41-7** | **6020A** | **0.87** | **B** | **0.40** | **0.028** | **ug/L** | **1** |
| **Cadmium** | **7440-43-9** | **6020A** | **1.7** | | **0.10** | **0.059** | **ug/L** | **2** |
| **Chromium** | **7440-47-3** | **6020A** | **1.9** | **J** | **5.0** | **0.35** | **ug/L** | **1** |
| **Cobalt** | **7440-48-4** | **6020A** | **9.6** | **B** | **5.0** | **0.029** | **ug/L** | **1** |
| **Copper** | **7440-50-8** | **6020A** | **2.2** | | **1.0** | **0.15** | **ug/L** | **1** |
| **Lead** | **7439-92-1** | **6020A** | **3.1** | **B** | **1.0** | **0.047** | **ug/L** | **1** |
| Nickel | 7440-02-0 | 6020A | ND | | 5.0 | 0.28 | ug/L | 1 |
| Selenium | 7782-49-2 | 6020A | ND | | 10 | 2.5 | ug/L | 3 |
| **Silver** | **7440-22-4** | **6020A** | **0.46** | **BJ** | **1.0** | **0.011** | **ug/L** | **1** |
| **Thallium** | **7440-28-0** | **6020A** | **0.13** | **J** | **0.50** | **0.076** | **ug/L** | **1** |
| **Vanadium** | **7440-62-2** | **6020A** | **15** | | **5.0** | **1.5** | **ug/L** | **1** |
| **Zinc** | **7440-66-6** | **6020A** | **44** | **B** | **10** | **1.5** | **ug/L** | **2** |

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

# CVAA

Client: **Buxton Environmental**
Description: **MW-8B**
Date Sampled: **09/16/2010 1600**
Date Received: **09/17/2010**

Laboratory ID: **LI17066-010**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | | 7470A | 1 | 09/21/2010 1945 | KJC | 09/20/2010 1925 | 42508 |

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

PQL = Practical quantitation limit
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E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
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H = Out of holding time

# Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **LI17066-011**
Description: **MW-9**
Matrix: **Aqueous**
Date Sampled: **09/16/2010 1415**
Date Received: **09/17/2010**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 5030B | 8260B | 1 | 09/21/2010 1811 | DLB | | 42861 |

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

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
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E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
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N = Recovery is out of criteria
H = Out of holding time

# Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **LI17066-011**
Description: **MW-9**
Matrix: **Aqueous**
Date Sampled: **09/16/2010 1415**
Date Received: **09/17/2010**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 5030B | 8260B | 1 | 09/21/2010 1811 | DLB | | 42861 |

| 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 | | 104 | 70-130 |
| Toluene-d8 | | 114 | 70-130 |

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

# ICP-MS

Client: **Buxton Environmental**
Description: **MW-9**
Date Sampled: **09/16/2010 1415**
Date Received: **09/17/2010**

Laboratory ID: **LI17066-011**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 3005A | 6020A | 1 | 09/23/2010 0616 | KJC | 09/20/2010 2120 | 42710 |
| 2 | 3005A | 6020A | 1 | 09/30/2010 0012 | FTS | 09/20/2010 2120 | 42710 |

| Parameter | CAS Number | Analytical Method | Result | Q | PQL | MDL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| Antimony | 7440-36-0 | 6020A | ND | | 1.0 | 0.097 | ug/L | 1 |
| Arsenic | 7440-38-2 | 6020A | ND | | 1.0 | 0.26 | ug/L | 1 |
| **Barium** | **7440-39-3** | **6020A** | **47** | **B** | **5.0** | **0.045** | **ug/L** | **1** |
| **Beryllium** | **7440-41-7** | **6020A** | **0.088** | **BJ** | **0.40** | **0.028** | **ug/L** | **1** |
| **Cadmium** | **7440-43-9** | **6020A** | **0.14** | | **0.10** | **0.059** | **ug/L** | **2** |
| **Chromium** | **7440-47-3** | **6020A** | **0.88** | **J** | **5.0** | **0.35** | **ug/L** | **1** |
| **Cobalt** | **7440-48-4** | **6020A** | **2.0** | **BJ** | **5.0** | **0.029** | **ug/L** | **1** |
| **Copper** | **7440-50-8** | **6020A** | **1.1** | | **1.0** | **0.15** | **ug/L** | **1** |
| **Lead** | **7439-92-1** | **6020A** | **0.31** | **BJ** | **1.0** | **0.047** | **ug/L** | **1** |
| **Nickel** | **7440-02-0** | **6020A** | **1.3** | **J** | **5.0** | **0.28** | **ug/L** | **1** |
| Selenium | 7782-49-2 | 6020A | ND | | 1.0 | 0.25 | ug/L | 2 |
| **Silver** | **7440-22-4** | **6020A** | **0.063** | **BJ** | **1.0** | **0.011** | **ug/L** | **1** |
| Thallium | 7440-28-0 | 6020A | ND | | 0.50 | 0.076 | ug/L | 1 |
| **Vanadium** | **7440-62-2** | **6020A** | **1.9** | **J** | **5.0** | **1.5** | **ug/L** | **1** |
| **Zinc** | **7440-66-6** | **6020A** | **5.4** | **BJ** | **10** | **1.5** | **ug/L** | **2** |

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

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

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

# CVAA

Client: **Buxton Environmental**
Description: **MW-9**
Date Sampled: **09/16/2010 1415**
Date Received: **09/17/2010**

Laboratory ID: **LI17066-011**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | | 7470A | 1 | 09/21/2010 1947 | KJC | 09/20/2010 1925 | 42508 |

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

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

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# Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **LI17066-012**
Description: **SW-1**
Matrix: **Aqueous**
Date Sampled: **09/16/2010 1500**
Date Received: **09/17/2010**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 5030B | 8260B | 1 | 09/21/2010 1833 | DLB | | 42861 |

| 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
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J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
H = Out of holding time

# Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **LI17066-012**
Description: **SW-1**
Matrix: **Aqueous**
Date Sampled: **09/16/2010 1500**
Date Received: **09/17/2010**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 5030B | 8260B | 1 | 09/21/2010 1833 | DLB | | 42861 |

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

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | | 106 | 70-130 |
| Bromofluorobenzene | | 106 | 70-130 |
| Toluene-d8 | | 113 | 70-130 |

PQL = Practical quantitation limit
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# ICP-MS

Client: **Buxton Environmental**
Laboratory ID: **LI17066-012**
Description: **SW-1**
Matrix: **Aqueous**
Date Sampled: **09/16/2010 1500**
Date Received: **09/17/2010**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 3005A | 6020A | 1 | 09/23/2010 0624 | KJC | 09/20/2010 2120 | 42710 |
| 2 | 3005A | 6020A | 1 | 09/30/2010 0022 | FTS | 09/20/2010 2120 | 42710 |

| Parameter | CAS Number | Analytical Method | Result | Q | PQL | MDL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| Antimony | 7440-36-0 | 6020A | ND | | 1.0 | 0.097 | ug/L | 1 |
| **Arsenic** | **7440-38-2** | **6020A** | **0.27** | **J** | **1.0** | **0.26** | **ug/L** | **1** |
| **Barium** | **7440-39-3** | **6020A** | **37** | **B** | **5.0** | **0.045** | **ug/L** | **1** |
| Beryllium | 7440-41-7 | 6020A | ND | | 0.40 | 0.028 | ug/L | 1 |
| Cadmium | 7440-43-9 | 6020A | ND | | 0.10 | 0.059 | ug/L | 2 |
| **Chromium** | **7440-47-3** | **6020A** | **0.63** | **J** | **5.0** | **0.35** | **ug/L** | **1** |
| **Cobalt** | **7440-48-4** | **6020A** | **0.41** | **BJ** | **5.0** | **0.029** | **ug/L** | **1** |
| **Copper** | **7440-50-8** | **6020A** | **0.62** | **J** | **1.0** | **0.15** | **ug/L** | **1** |
| **Lead** | **7439-92-1** | **6020A** | **0.11** | **BJ** | **1.0** | **0.047** | **ug/L** | **1** |
| Nickel | 7440-02-0 | 6020A | ND | | 5.0 | 0.28 | ug/L | 1 |
| Selenium | 7782-49-2 | 6020A | ND | | 1.0 | 0.25 | ug/L | 2 |
| Silver | 7440-22-4 | 6020A | ND | | 1.0 | 0.011 | ug/L | 1 |
| Thallium | 7440-28-0 | 6020A | ND | | 0.50 | 0.076 | ug/L | 1 |
| **Vanadium** | **7440-62-2** | **6020A** | **1.9** | **J** | **5.0** | **1.5** | **ug/L** | **1** |
| **Zinc** | **7440-66-6** | **6020A** | **3.4** | **BJ** | **10** | **1.5** | **ug/L** | **2** |

PQL = Practical quantitation limit
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"
N = Recovery is out of criteria
H = Out of holding time

# CVAA

Client: **Buxton Environmental**
Laboratory ID: **LI17066-012**
Description: **SW-1**
Matrix: **Aqueous**
Date Sampled: **09/16/2010 1500**
Date Received: **09/17/2010**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | | 7470A | 1 | 09/23/2010 0026 | KJC | 09/22/2010 1800 | 42905 |

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

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# Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **LI17066-013**
Description: **SW-2**
Matrix: **Aqueous**
Date Sampled: **09/16/2010 1730**
Date Received: **09/17/2010**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 5030B | 8260B | 1 | 09/21/2010 1854 | DLB | | 42861 |

| 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** | **0.45** | **J** | **1.0** | **0.13** | **ug/L** | **1** |
| 1,2-Dichloroethane | 107-06-2 | 8260B | ND | | 1.0 | 0.15 | ug/L | 1 |
| 1,1-Dichloroethene | 75-35-4 | 8260B | ND | | 1.0 | 0.16 | ug/L | 1 |
| **cis-1,2-Dichloroethene** | **156-59-2** | **8260B** | **0.89** | **J** | **1.0** | **0.12** | **ug/L** | **1** |
| trans-1,2-Dichloroethene | 156-60-5 | 8260B | ND | | 1.0 | 0.21 | ug/L | 1 |
| 1,2-Dichloropropane | 78-87-5 | 8260B | ND | | 1.0 | 0.19 | ug/L | 1 |
| cis-1,3-Dichloropropene | 10061-01-5 | 8260B | ND | | 1.0 | 0.092 | ug/L | 1 |
| trans-1,3-Dichloropropene | 10061-02-6 | 8260B | ND | | 1.0 | 0.11 | ug/L | 1 |
| Ethylbenzene | 100-41-4 | 8260B | ND | | 1.0 | 0.33 | ug/L | 1 |
| 2-Hexanone | 591-78-6 | 8260B | ND | | 10 | 0.27 | ug/L | 1 |
| Methyl iodide (Iodomethane) | 74-88-4 | 8260B | ND | | 5.0 | 1.2 | ug/L | 1 |
| 4-Methyl-2-pentanone | 108-10-1 | 8260B | ND | | 10 | 0.31 | ug/L | 1 |
| Methylene chloride | 75-09-2 | 8260B | ND | | 1.0 | 0.33 | ug/L | 1 |
| Styrene | 100-42-5 | 8260B | ND | | 1.0 | 0.12 | ug/L | 1 |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | 8260B | ND | | 1.0 | 0.20 | ug/L | 1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 8260B | ND | | 1.0 | 0.16 | ug/L | 1 |
| Tetrachloroethene | 127-18-4 | 8260B | ND | | 1.0 | 0.13 | ug/L | 1 |
| Toluene | 108-88-3 | 8260B | ND | | 1.0 | 0.33 | ug/L | 1 |
| 1,1,1-Trichloroethane | 71-55-6 | 8260B | ND | | 1.0 | 0.074 | ug/L | 1 |
| 1,1,2-Trichloroethane | 79-00-5 | 8260B | ND | | 1.0 | 0.21 | ug/L | 1 |
| Trichloroethene | 79-01-6 | 8260B | ND | | 1.0 | 0.18 | ug/L | 1 |
| Trichlorofluoromethane | 75-69-4 | 8260B | ND | | 1.0 | 0.30 | ug/L | 1 |
| 1,2,3-Trichloropropane | 96-18-4 | 8260B | ND | | 1.0 | 0.33 | ug/L | 1 |

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# Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **LI17066-013**
Description: **SW-2**
Matrix: **Aqueous**
Date Sampled: **09/16/2010 1730**
Date Received: **09/17/2010**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 5030B | 8260B | 1 | 09/21/2010 1854 | DLB | | 42861 |

| 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 | | 104 | 70-130 |
| Toluene-d8 | | 112 | 70-130 |

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

# ICP-MS

Client: **Buxton Environmental**
Laboratory ID: **LI17066-013**
Description: **SW-2**
Matrix: **Aqueous**
Date Sampled: **09/16/2010 1730**
Date Received: **09/17/2010**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 3005A | 6020A | 1 | 09/23/2010 0631 | KJC | 09/20/2010 2120 | 42710 |
| 2 | 3005A | 6020A | 1 | 09/30/2010 0032 | FTS | 09/20/2010 2120 | 42710 |

| Parameter | CAS Number | Analytical Method | Result | Q | PQL | MDL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| Antimony | 7440-36-0 | 6020A | ND | | 1.0 | 0.097 | ug/L | 1 |
| **Arsenic** | **7440-38-2** | **6020A** | **0.37** | **J** | **1.0** | **0.26** | **ug/L** | **1** |
| **Barium** | **7440-39-3** | **6020A** | **69** | **B** | **5.0** | **0.045** | **ug/L** | **1** |
| Beryllium | 7440-41-7 | 6020A | ND | | 0.40 | 0.028 | ug/L | 1 |
| Cadmium | 7440-43-9 | 6020A | ND | | 0.10 | 0.059 | ug/L | 2 |
| **Chromium** | **7440-47-3** | **6020A** | **0.65** | **J** | **5.0** | **0.35** | **ug/L** | **1** |
| **Cobalt** | **7440-48-4** | **6020A** | **1.6** | **BJ** | **5.0** | **0.029** | **ug/L** | **1** |
| **Copper** | **7440-50-8** | **6020A** | **0.37** | **J** | **1.0** | **0.15** | **ug/L** | **1** |
| Lead | 7439-92-1 | 6020A | ND | | 1.0 | 0.047 | ug/L | 1 |
| **Nickel** | **7440-02-0** | **6020A** | **0.40** | **J** | **5.0** | **0.28** | **ug/L** | **1** |
| **Selenium** | **7782-49-2** | **6020A** | **0.66** | **J** | **1.0** | **0.25** | **ug/L** | **2** |
| Silver | 7440-22-4 | 6020A | ND | | 1.0 | 0.011 | ug/L | 1 |
| Thallium | 7440-28-0 | 6020A | ND | | 0.50 | 0.076 | ug/L | 1 |
| Vanadium | 7440-62-2 | 6020A | ND | | 5.0 | 1.5 | ug/L | 1 |
| **Zinc** | **7440-66-6** | **6020A** | **2.2** | **BJ** | **10** | **1.5** | **ug/L** | **2** |

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H = Out of holding time

# CVAA

Client: **Buxton Environmental**
Laboratory ID: **LI17066-013**
Description: **SW-2**
Matrix: **Aqueous**
Date Sampled: **09/16/2010 1730**
Date Received: **09/17/2010**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | | 7470A | 1 | 09/23/2010 0028 | KJC | 09/22/2010 1800 | 42905 |

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

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# Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **LI17066-014**
Description: **Trip Blank**
Matrix: **Aqueous**
Date Sampled: **09/17/2010 1605**
Date Received: **09/17/2010**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 5030B | 8260B | 1 | 09/21/2010 1916 | DLB | | 42861 |

| 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"
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H = Out of holding time

# Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **LI17066-014**
Description: **Trip Blank**
Matrix: **Aqueous**
Date Sampled: **09/17/2010 1605**
Date Received: **09/17/2010**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 5030B | 8260B | 1 | 09/21/2010 1916 | DLB | | 42861 |

| 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 | | 108 | 70-130 |
| Bromofluorobenzene | | 104 | 70-130 |
| Toluene-d8 | | 114 | 70-130 |

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SHEALY

# Chain of Custody Record

SHEALY ENVIRONMENTAL SERVICES, INC.
106 Vantage Point Drive
West Columbia, South Carolina 29172
Telephone No. (803) 791-9700 Fax No. (803) 791-9111

Number 106863

| | | | |
|---|---|---|---|
| Client: Buxton Environmental, Inc | Report to Contact: Ross Klingman | Telephone No. / Fax No. / E-mail: 704-344-1450 | Quote No. |
| Address: 1101 South Blvd, Ste 101 | Sampler's Signature: [signature] | Waybill No. | Page 1 of 1 |
| City: Charlotte  State: NC  Zip Code: 28203 | Printed Name: | Analysis (Attach list if more space is needed.) | |
| Project Name: Alamance Co - Swepsonville Landfill | | | |
| Project No. | P.O. No. | | Lot No. LI 17064 |

| Sample ID / Description (Containers for each sample may be combined on one line.) | Date | Time | G=Grab C=Composite | Matrix: Aqueous | Solid | Non-Aqueous | Unpres. | $H_2SO_4$ | $HNO_3$ | HCl | NaOH | MeOH | 5035 Kit | APPI VOCs | APPI metals+Hg | Remarks / Cooler I.D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-1 | 9-16-10 | 14:00 | G | ✓ | | | | | | | | | | X | X | |
| MW-2 | " | 17:00 | G | ✓ | | | | | | | | | | X | X | |
| MW-3 | " | 17:20 | G | ✓ | | | | | | | | | | X | X | |
| MW-4 | " | 18:00 | G | ✓ | | | | | | | | | | X | X | |
| MW-5 | " | 18:30 | G | ✓ | | | | | | | | | | X | X | |
| MW-6 | " | 14:45 | G | ✓ | | | | | | | | | | X | X | |
| MW-7A | " | 15:45 | G | ✓ | | | | | | | | | | X | X | |
| MW-7B | " | 15:15 | G | ✓ | | | | | | | | | | X | X | |
| MW-8A | " | 16:15 | G | ✓ | | | | | | | | | | X | X | |
| MW-8B | " | 16:00 | G | ✓ | | | | | | | | | | X | X | |
| MW-9 | " | 14:15 | G | ✓ | | | | | | | | | | X | X | |
| SW-1 | " | 15:00 | G | ✓ | | | | | | | | | | X | X | |
| SW-2 | " | 17:30 | G | ✓ | | | | | | | | | | X | X | |
| Trip Blank | — | — | G | ✓ | | | | | | | | | | X | | |

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

Sample Disposal: Return to Client · Disposal by Lab

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

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

QC Requirements (Specify): Analyze Per NC Solid Waste Rules w/ low Detection + J+B-flags

| | Date | Time | | Date | Time |
|---|---|---|---|---|---|
| 1. Relinquished by: [signature] | 9-17-10 | 8:30 | 1. Received by: [signature] | 9-17-10 | 1040 |
| 2. Relinquished by: [signature] | 9-17-10 | 1605 | 2. Received by | | |
| 3. Relinquished by | | | 3. Laboratory received by: [signature] | 9/17/10 | 1605 |

Comments

LAB USE ONLY: Received on ice (Circle) Yes No Ice Pack · Receipt Temp. 1.9 °C

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

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

Shealy Environmental Services, Inc.
Document number: [illegible]
Revision Number: [illegible]

Page 1 of [illegible]
Revision Date: 09/[illegible]/06
Effective Date: 05/[illegible]/07

# Sample Receipt Checklist (SRC)

Client: Buffalo Envl  Cooler Inspected by/date: WAL 9/17/[illegible]  Loc#: LE 17066

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

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

Cooler ID/temperature upon receipt: 1.9 °C / °C / °C / °C / °C / °C / °C / °C

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

If response is No for Yes for 14, 15, 15a, an explanation/resolution must be provided.

| | | | |
|---|---|---|---|
| Yes ☐ | No ☐ | NA ☑ | 3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note (circle one), other ____ (For coolers received via commercial courier, PMs are to be notified immediately. |
| Yes ☐ | No ☐ | NA ☑ | 4. Is the commercial courier's packing slip attached to this form? |
| Yes ☑ | No ☐ | NA ☐ | 5. Were proper custody procedures (relinquished/received, followed? |
| Yes ☑ | No ☐ | NA ☐ | 6. Were sample IDs listed? |
| Yes ☑ | No ☐ | NA ☐ | 7. Was collection date & time listed? |
| Yes ☑ | No ☐ | NA ☐ | 8. Were tests to be performed listed on the COC or was quote # provided? |
| Yes ☑ | No ☐ | NA ☐ | 9. Did all samples arrive in the proper containers for each test? |
| Yes ☑ | No ☐ | NA ☐ | 10. Did all container label information (ID, date, time) agree with COC? |
| Yes ☑ | No ☐ | NA ☐ | 11. Did all containers arrive in good condition (unbroken, lids on, etc.)? |
| Yes ☑ | No ☐ | NA ☐ | 12. Was adequate sample volume available? |
| Yes ☑ | No ☐ | NA ☐ | 13. Were all samples received within ½ the holding time or 48 hours, whichever comes first? |
| Yes ☐ | No ☑ | NA ☐ | 14. Were any sample containers missing? |
| Yes ☐ | No ☑ | NA ☐ | 15. Were there any excess samples not listed on COC? |
| Yes ☐ | No ☑ | NA ☐ | 16. Were bubbles present >"pea-size" (¼" or 6mm in diameter) in any VOA vials? |
| Yes ☑ | No ☐ | NA ☐ | 17. Were all metals/O&G/HEM/nutrient samples received at a pH of <2? |
| Yes ☐ | No ☐ | NA ☑ | 18. Were all cyanide and/or sulfide samples received at a pH >12? |
| Yes ☐ | No ☐ | NA ☑ | 19. Were all applicable NH3/TKN/cyanide/phenol/BNA/pest/PCB/herb (<0.2mg/L) and toxicity (<0.1mg/L) samples free of residual chlorine? |
| Yes ☐ | No ☐ | NA ☑ | 20. Were collection temperatures documented on the COC for NC samples? |

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

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

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

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

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

Corrective Action taken, if necessary:
Was client notified: Yes ☐ No ☐  Did client respond: Yes ☐ No ☐
SESI employee: ____  Date of response: ____
Comments: ____