RECEIVED JANUARY 14, 2009

0080195

**WSCF Laboratory**

PO Box 1000 S3-30
Richland, WA 99352
(509) 373-7005
(509) 372-0456

**Memorandum**

To: Michael Neely
CH2M-HILL PRC
PO Box 1600
Richland, WA 99352

Date: January 14, 2009

From: WSCF Laboratory
WSCF Analytical Chemistry

CC:

Subject: FINAL RESULT FOR SAMPLE DELIVERY GROUP WSCF80013

Reference: (1) MOA-FH-CHPRC-2008
(2) HNF-SD-CD-QAPP-017, Rev 9, Waste Sampling & Characterization Facility Quality Assurance Plan

This letter contains the following information for sample delivery group WCSF80013

* Cover Sheet (Attachment 1)
* Narrative (Attachment 2)
* Analytical Results (Attachment 3)
* Sample Receipt Information (Attachment 4)

Electronically signed by Scot Fitzgerald
For Lab Manager

Attachments 4

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ATTACHMENT 1

**COVER SHEET**

Consisting of 2 pages
Including cover page

## WSCF SAF Number Cross Reference

Group # WSCF80013
Data Deliverable Date 11/27/08

| SAF # | Sample ID | Sample # | Matrix | Sampled | Received |
|---|---|---|---|---|---|
| W09-010 | B1XF16 | 80013001 | WATER | 10/13/08 | 10/13/08 |
| W09-010 | B1XF24 | 80013002 | WATER | 10/13/08 | 10/13/08 |
| W09-010 | B1XF26 | 80013003 | WATER | 10/13/08 | 10/13/08 |
| W09-010 | B1XF37 | 80013004 | WATER | 10/13/08 | 10/13/08 |
| W09-010 | B1XF39 | 80013005 | WATER | 10/13/08 | 10/13/08 |
| W09-010 | B1XF41 | 80013006 | WATER | 10/13/08 | 10/13/08 |
| W09-010 | B1XF48 | 80013007 | WATER | 10/13/08 | 10/13/08 |
| W09-010 | B1XF50 | 80013008 | WATER | 10/13/08 | 10/13/08 |
| W09-010 | B1XF58 | 80013009 | WATER | 10/13/08 | 10/13/08 |
| W09-010 | B1XF60 | 80013010 | WATER | 10/13/08 | 10/13/08 |
| W09-010 | B1XF17 | 80013011 | WATER | 10/13/08 | 10/13/08 |
| W09-010 | B1XF25 | 80013012 | WATER | 10/13/08 | 10/13/08 |
| W09-010 | B1XF27 | 80013013 | WATER | 10/13/08 | 10/13/08 |
| W09-010 | B1XF38 | 80013014 | WATER | 10/13/08 | 10/13/08 |
| W09-010 | B1XF40 | 80013015 | WATER | 10/13/08 | 10/13/08 |
| W09-010 | B1XF42 | 80013016 | WATER | 10/13/08 | 10/13/08 |
| W09-010 | B1XF49 | 80013017 | WATER | 10/13/08 | 10/13/08 |
| W09-010 | B1XF51 | 80013018 | WATER | 10/13/08 | 10/13/08 |
| W09-010 | B1XF59 | 80013019 | WATER | 10/13/08 | 10/13/08 |
| W09-010 | B1XF61 | 80013020 | WATER | 10/13/08 | 10/13/08 |

ATTACHMENT 2

**NARRATIVE**

Consisting of 3 pages
Including cover page

Attachment 2
**Narrative**
WSCF80013

**Introduction**

Twenty (20) Groundwater samples were received at the WSCF Laboratory on October 10, 2008. Samples were analyzed for the analytes indicated on the attached copy of the chain of custody (COC) form in accordance with the *Memorandum of Agreement (MOA-FH-CHPRC-2008, Rev.0)*, referenced in the cover letter.

The narrative (Attachment 2) will address sample characteristics, analyses requested and general information in performance of the analytical methods. A Data Summary Report (Attachment 3) includes analytical results, a comment report detailing method abnormalities, tentatively identified peaks if applicable, method references, and Laboratory QC information as applicable. Copies of the chain of custody and sample receipt documentation are included as Attachment 4.

It should be noted that the attached chain of custody was stamped "ICED" by the WSCF Laboratory Sample Custodian during sample receiving, indicating the presence of ice in the transport container.

**Analytical Methodology for Requested Analyses**

Refer to *WSCF Method References Report* for a complete listing of approved analytical methods.

**Inorganic Comments**

**Ammonia** – The hold time requirement for this analysis was met. A Duplicate, Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group.

All QC controls are within the established limits.

**Anions** – Hold time requirements for this analysis were met. A Duplicate, Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group. Analytical Note(s):

- Chloride and Nitrate –N Matrix Spike recoveries outside acceptance limits, resulting in "N" flags.
- Chloride and Nitrate-N duplicate precision criteria not met, no flag required.

All other QC controls are within the established limits.

**Chemical Oxygen Demand** – Hold time requirement for this analysis was met. A Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group.

All QC controls are within the established limits.

Attachment 2
**Narrative**
WSCF80013

**ICP-AES Metals** – The hold time requirements for this analysis were met. A Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group. Analytical Note(s):

- Silver Preparation Blank yielded high recovery, resulting in "C" flag if applicable.
- Silver Matrix Spike Duplicate Relative Percent Difference (RPD) exceeded acceptance limit.
- High check standard used to ensure standard curve linearity due to high values for Magnesium, Calcium and Sodium.
- Magnesium, Calcium and Sodium sample concentrations exceeded the spiking level by more than a factor of 4, resulting in spike recoveries being invalid.

All other QC controls are within the established limits.

**ICP-MS Metals** – The hold time requirements for this analysis were met. A Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group.

- In the QC report for Arsenic, QC batch 5794, the list of "Associated Samples" should include sample numbers 80013002, 80013016, 80013018 and 80013019.

All QC controls are within the established limits.

**Organic Comments**

**VOA** – The hold time requirement for this analysis was met. A Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample, were analyzed with this delivery group.

All QC controls are within the established limits.

I certify that this data package is in compliance with the MOA, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this data package has been authorized by the Laboratory Analytical Manager and Client Services.

ATTACHMENT 3

# ANALYTICAL RESULTS

Consisting of 97 pages
Including cover page

# WSCF ANALYTICAL RESULTS REPORT

For

CHPRC

PO Box 1600
Richland, WA 99352

Attention: Michael Neely

| | |
|---|---|
| **Contract #** | MOA-FH-CHPRC-2008 |
| **Group #** | WSCF80013 |
| **Report Date** | January 14, 2009 |

Analytical: Electronically signed by Scot Fitzgerald

Client Services: Electronically signed by John Trechter

*All radiochemistry results are reported on an "as received" basis.*

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## Batch QC List

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

| QC Batch | Analytical Batch | S# | Type | Sample # | Client Sample# | Original | Test |
|---|---|---|---|---|---|---|---|
| 4506 | 5307 | 3 | BLANK | 1204 | BLANK | | Chemical Oxygen Demand |
| 4506 | 5307 | 4 | LCS | 1205 | LCS | | Chemical Oxygen Demand |
| 4506 | 5307 | 7 | MS | 1200 | B1XF17(80013011MS) | 80013011 | Chemical Oxygen Demand |
| 4506 | 5307 | 8 | MSD | 1201 | B1XF17(80013011MSD) | 80013011 | Chemical Oxygen Demand |
| 4506 | 5307 | 9 | SAMPLE | 80013011 | B1XF17 | | Chemical Oxygen Demand |
| 4506 | 5307 | 10 | SAMPLE | 80013012 | B1XF25 | | Chemical Oxygen Demand |
| 4506 | 5307 | 11 | SAMPLE | 80013013 | B1XF27 | | Chemical Oxygen Demand |
| 4506 | 5307 | 12 | SAMPLE | 80013014 | B1XF38 | | Chemical Oxygen Demand |
| 4506 | 5307 | 13 | SAMPLE | 80013015 | B1XF40 | | Chemical Oxygen Demand |
| 4506 | 5307 | 14 | SAMPLE | 80013016 | B1XF42 | | Chemical Oxygen Demand |
| 4506 | 5307 | 15 | SAMPLE | 80013017 | B1XF49 | | Chemical Oxygen Demand |
| 4506 | 5307 | 16 | SAMPLE | 80013018 | B1XF51 | | Chemical Oxygen Demand |
| 4806 | 4806 | 19 | LCS | 1294 | LCS | | Anions by Ion Chromatography (Water) |
| 4806 | 4806 | 21 | BLANK | 1296 | BLANK | | Anions by Ion Chromatography (Water) |
| 4806 | 4806 | 22 | SAMPLE | 80013011 | B1XF17 | | Anions by Ion Chromatography (Water) |
| 4806 | 4806 | 23 | DUP | 1223 | B1XF17(80013011DUP) | 80013011 | Anions by Ion Chromatography (Water) |
| 4806 | 4806 | 24 | MS | 1224 | B1XF17(80013011MS) | 80013011 | Anions by Ion Chromatography (Water) |
| 4806 | 4806 | 25 | MSD | 1225 | B1XF17(80013011MSD) | 80013011 | Anions by Ion Chromatography (Water) |
| 4806 | 4806 | 26 | SAMPLE | 80013012 | B1XF25 | | Anions by Ion Chromatography (Water) |
| 4806 | 4806 | 27 | SAMPLE | 80013013 | B1XF27 | | Anions by Ion Chromatography (Water) |
| 4806 | 4806 | 28 | SAMPLE | 80013014 | B1XF38 | | Anions by Ion Chromatography (Water) |
| 4806 | 4806 | 29 | SAMPLE | 80013015 | B1XF40 | | Anions by Ion Chromatography (Water) |
| 4806 | 4806 | 30 | SAMPLE | 80013016 | B1XF42 | | Anions by Ion Chromatography (Water) |

## Batch QC List

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

| QC Batch | Analytical Batch | S# | Type | Sample # | Client Sample# | Original | Test |
|---|---|---|---|---|---|---|---|
| 4806 | 4806 | 31 | SAMPLE | 80013017 | B1XF49 | | Anions by Ion Chromatography (Water) |
| 4806 | 4806 | 32 | SAMPLE | 80013018 | B1XF51 | | Anions by Ion Chromatography (Water) |
| 4806 | 4806 | 33 | SAMPLE | 80013019 | B1XF59 | | Anions by Ion Chromatography (Water) |
| 4806 | 4806 | 34 | SAMPLE | 80013020 | B1XF61 | | Anions by Ion Chromatography (Water) |
| 4806 | 4806 | 35 | BLANK | 1297 | BLANK | | Anions by Ion Chromatography (Water) |
| 5407 | 5407 | 2 | BLANK | 1435 | BLANK | | Ammonia(N) by IC (W) |
| 5407 | 5407 | 4 | LCS | 1309 | LCS | | Ammonia(N) by IC (W) |
| 5407 | 5407 | 5 | SAMPLE | 80013011 | B1XF17 | | Ammonia(N) by IC (W) |
| 5407 | 5407 | 6 | DUP | 1310 | B1XF17(80013011DUP) | 80013011 | Ammonia(N) by IC (W) |
| 5407 | 5407 | 7 | MS | 1311 | B1XF17(80013011MS) | 80013011 | Ammonia(N) by IC (W) |
| 5407 | 5407 | 8 | MSD | 1312 | B1XF17(80013011MSD) | 80013011 | Ammonia(N) by IC (W) |
| 5407 | 5407 | 9 | SAMPLE | 80013012 | B1XF25 | | Ammonia(N) by IC (W) |
| 5407 | 5407 | 10 | SAMPLE | 80013013 | B1XF27 | | Ammonia(N) by IC (W) |
| 5407 | 5407 | 11 | SAMPLE | 80013014 | B1XF38 | | Ammonia(N) by IC (W) |
| 5407 | 5407 | 12 | SAMPLE | 80013015 | B1XF40 | | Ammonia(N) by IC (W) |
| 5407 | 5407 | 13 | SAMPLE | 80013016 | B1XF42 | | Ammonia(N) by IC (W) |
| 5407 | 5407 | 14 | SAMPLE | 80013017 | B1XF49 | | Ammonia(N) by IC (W) |
| 5407 | 5407 | 15 | SAMPLE | 80013018 | B1XF51 | | Ammonia(N) by IC (W) |
| 5407 | 5407 | 16 | SAMPLE | 80013019 | B1XF59 | | Ammonia(N) by IC (W) |
| 5407 | 5407 | 17 | SAMPLE | 80013020 | B1XF61 | | Ammonia(N) by IC (W) |
| 5407 | 5407 | 19 | BLANK | 1436 | BLANK | | Ammonia(N) by IC (W) |
| 5513 | 5515 | 4 | BLANK | 1336 | BLANK | | ICP-6010 - All possible metals |
| 5513 | 5515 | 5 | LCS | 1337 | LCS | | ICP-6010 - All possible metals |

## Batch QC List

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

| QC Batch | Analytical Batch | S# | Type | Sample # | Client Sample# | Original | Test |
|---|---|---|---|---|---|---|---|
| 5513 | 5515 | 6 | MS | 1338 | MS | 80013001 | ICP-6010 - All possible metals |
| 5513 | 5515 | 7 | MSD | 1339 | MSD | 80013001 | ICP-6010 - All possible metals |
| 5513 | 5515 | 8 | SAMPLE | 80013001 | B1XF16 | | ICP-6010 - All possible metals |
| 5513 | 5515 | 9 | SAMPLE | 80013002 | B1XF24 | | ICP-6010 - All possible metals |
| 5513 | 5515 | 10 | SAMPLE | 80013003 | B1XF26 | | ICP-6010 - All possible metals |
| 5513 | 5515 | 11 | SAMPLE | 80013004 | B1XF37 | | ICP-6010 - All possible metals |
| 5513 | 5515 | 12 | SAMPLE | 80013005 | B1XF39 | | ICP-6010 - All possible metals |
| 5513 | 5515 | 13 | SAMPLE | 80013006 | B1XF41 | | ICP-6010 - All possible metals |
| 5513 | 5515 | 14 | SAMPLE | 80013007 | B1XF48 | | ICP-6010 - All possible metals |
| 5513 | 5515 | 15 | SAMPLE | 80013008 | B1XF50 | | ICP-6010 - All possible metals |
| 5513 | 5515 | 16 | SAMPLE | 80013009 | B1XF58 | | ICP-6010 - All possible metals |
| 5513 | 5515 | 17 | SAMPLE | 80013010 | B1XF60 | | ICP-6010 - All possible metals |
| 5513 | 5515 | 20 | SAMPLE | 80013011 | B1XF17 | | ICP-6010 - All possible metals |
| 5513 | 5515 | 21 | SAMPLE | 80013012 | B1XF25 | | ICP-6010 - All possible metals |
| 5513 | 5515 | 22 | SAMPLE | 80013013 | B1XF27 | | ICP-6010 - All possible metals |
| 5513 | 5515 | 23 | SAMPLE | 80013014 | B1XF38 | | ICP-6010 - All possible metals |
| 5513 | 5515 | 24 | SAMPLE | 80013015 | B1XF40 | | ICP-6010 - All possible metals |
| 5513 | 5515 | 25 | SAMPLE | 80013016 | B1XF42 | | ICP-6010 - All possible metals |
| 5513 | 5515 | 26 | SAMPLE | 80013017 | B1XF49 | | ICP-6010 - All possible metals |
| 5513 | 5515 | 27 | SAMPLE | 80013018 | B1XF51 | | ICP-6010 - All possible metals |
| 5513 | 5515 | 28 | SAMPLE | 80013019 | B1XF59 | | ICP-6010 - All possible metals |
| 5513 | 5515 | 29 | SAMPLE | 80013020 | B1XF61 | | ICP-6010 - All possible metals |
| 5716 | 5949 | 4 | BLANK | 1633 | BLANK | | ICP-2008 MS All possible metal |

## Batch QC List

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

| QC Batch | Analytical Batch | S# | Type | Sample # | Client Sample# | Original | Test |
|---|---|---|---|---|---|---|---|
| 5716 | 5949 | 6 | LCS | 1634 | LCS | | ICP-2008 MS All possible metal |
| 5716 | 5949 | 11 | SAMPLE | 80013001 | B1XF16 | | ICP-2008 MS All possible metal |
| 5716 | 5949 | 12 | MS | 1635 | B1XF16(80013001MS) | 80013001 | ICP-2008 MS All possible metal |
| 5716 | 5949 | 13 | MSD | 1636 | B1XF16(80013001MSD) | 80013001 | ICP-2008 MS All possible metal |
| 5716 | 5949 | 34 | SAMPLE | 80013010 | B1XF60 | | ICP-2008 MS All possible metal |
| 5723 | 5949 | 5 | BLANK | 1647 | BLANK | | ICP-2008 MS All possible metal |
| 5723 | 5949 | 7 | LCS | 1648 | LCS | | ICP-2008 MS All possible metal |
| 5723 | 5949 | 9 | MS | 1649 | B1X8K9(80005010MS) | 80005010 | ICP-2008 MS All possible metal |
| 5723 | 5949 | 10 | MSD | 1650 | B1X8K9(80005010MSD) | 80005010 | ICP-2008 MS All possible metal |
| 5723 | 5949 | 45 | SAMPLE | 80013004 | B1XF37 | | ICP-2008 MS All possible metal |
| 5794 | 5912 | 13 | BLANK | 1867 | BLANK | | ICP-2008 MS All possible metal |
| 5794 | 5912 | 15 | LCS | 1868 | LCS | | ICP-2008 MS All possible metal |
| 5794 | 5912 | 18 | SAMPLE | 80013017 | B1XF49 | | ICP-2008 MS All possible metal |
| 5794 | 5912 | 20 | MS | 1869 | MS | 80013017 | ICP-2008 MS All possible metal |
| 5794 | 5912 | 22 | MSD | 1870 | MSD | 80013017 | ICP-2008 MS All possible metal |
| 5794 | 5912 | 26 | SAMPLE | 80013016 | B1XF42 | | ICP-2008 MS All possible metal |
| 5794 | 5912 | 27 | SAMPLE | 80013018 | B1XF51 | | ICP-2008 MS All possible metal |
| 5794 | 5912 | 29 | SAMPLE | 80013019 | B1XF59 | | ICP-2008 MS All possible metal |
| 5794 | 5912 | 30 | SAMPLE | 80013002 | B1XF24 | | ICP-2008 MS All possible metal |
| 5794 | 5912 | 34 | SAMPLE | 80013007 | B1XF48 | | ICP-2008 MS All possible metal |
| 5794 | 5912 | 35 | SAMPLE | 80013009 | B1XF58 | | ICP-2008 MS All possible metal |
| 5805 | 5949 | 59 | BLANK | 1991 | BLANK | | ICP-2008 MS All possible metal |
| 5805 | 5949 | 61 | LCS | 1884 | LCS | | ICP-2008 MS All possible metal |

## Batch QC List

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

| QC Batch | Analytical Batch | S# | Type | Sample # | Client Sample# | Original | Test |
|---|---|---|---|---|---|---|---|
| 5805 | 5949 | 67 | MS | 2094 | B1X8H2(80018028MS) | 80018028 | ICP-2008 MS All possible metal |
| 5805 | 5949 | 68 | MSD | 2095 | B1X8H2(80018028MSD) | 80018028 | ICP-2008 MS All possible metal |
| 5805 | 5949 | 78 | SAMPLE | 80013012 | B1XF25 | | ICP-2008 MS All possible metal |
| 5805 | 5949 | 83 | SAMPLE | 80013013 | B1XF27 | | ICP-2008 MS All possible metal |
| 5805 | 5949 | 84 | SAMPLE | 80013015 | B1XF40 | | ICP-2008 MS All possible metal |
| 5805 | 5949 | 85 | SAMPLE | 80013014 | B1XF38 | | ICP-2008 MS All possible metal |
| 5805 | 5949 | 86 | SAMPLE | 80013005 | B1XF39 | | ICP-2008 MS All possible metal |
| 5805 | 5949 | 90 | SAMPLE | 80013003 | B1XF26 | | ICP-2008 MS All possible metal |
| 5805 | 5949 | 91 | SAMPLE | 80013008 | B1XF50 | | ICP-2008 MS All possible metal |
| 6087 | 6088 | 1 | BLANK | 2361 | BLANK | | ICP-2008 MS All possible metal |
| 6087 | 6088 | 3 | LCS | 2362 | LCS | | ICP-2008 MS All possible metal |
| 6087 | 6088 | 13 | MS | 2363 | B1X526(80005008MS) | 80005008 | ICP-2008 MS All possible metal |
| 6087 | 6088 | 14 | MSD | 2364 | B1X526(80005008MSD) | 80005008 | ICP-2008 MS All possible metal |
| 6087 | 6088 | 20 | SAMPLE | 80013006 | B1XF41 | | ICP-2008 MS All possible metal |
| 6087 | 6088 | 21 | SAMPLE | 80013011 | B1XF17 | | ICP-2008 MS All possible metal |
| 6087 | 6088 | 22 | SAMPLE | 80013020 | B1XF61 | | ICP-2008 MS All possible metal |
| 11187 | 11189 | 1 | MS | 2629 | B1XF59(80013019MS) | 80013019 | Chemical Oxygen Demand |
| 11187 | 11189 | 2 | MSD | 2630 | B1XF59(80013019MSD) | 80013019 | Chemical Oxygen Demand |
| 11187 | 11189 | 3 | SAMPLE | 80013019 | B1XF59 | | Chemical Oxygen Demand |
| 11187 | 11189 | 4 | SAMPLE | 80013020 | B1XF61 | | Chemical Oxygen Demand |
| 11187 | 11189 | 7 | BLANK | 2627 | BLANK | | Chemical Oxygen Demand |
| 11187 | 11189 | 8 | LCS | 2628 | LCS | | Chemical Oxygen Demand |

## Batch QC List

**Attention** Michael Neely
**Department** Organic, Volatiles

**Group #** WSCF80013
**Project Number** W09-010

| QC Batch | Analytical Batch | S# | Type | Sample # | Client Sample# | Original | Test |
|---|---|---|---|---|---|---|---|
| 6001 | 6003 | 2 | BLANK | 2332 | BLANK | | SW-846 8260B Volatiles, separate prep |
| 6001 | 6003 | 3 | LCS | 2335 | LCS | | SW-846 8260B Volatiles, separate prep |
| 6001 | 6003 | 4 | MS | 2333 | B1XF17(80013011MS) | 80013011 | SW-846 8260B Volatiles, separate prep |
| 6001 | 6003 | 5 | MSD | 2334 | B1XF17(80013011MSD) | 80013011 | SW-846 8260B Volatiles, separate prep |
| 6001 | 6003 | 6 | SAMPLE | 80013011 | B1XF17 | | SW-846 8260B Volatiles, separate prep |
| 6001 | 6003 | 7 | SAMPLE | 80013012 | B1XF25 | | SW-846 8260B Volatiles, separate prep |
| 6001 | 6003 | 8 | SAMPLE | 80013013 | B1XF27 | | SW-846 8260B Volatiles, separate prep |
| 6001 | 6003 | 9 | SAMPLE | 80013014 | B1XF38 | | SW-846 8260B Volatiles, separate prep |
| 6001 | 6003 | 10 | SAMPLE | 80013015 | B1XF40 | | SW-846 8260B Volatiles, separate prep |
| 6001 | 6003 | 11 | SAMPLE | 80013016 | B1XF42 | | SW-846 8260B Volatiles, separate prep |
| 6001 | 6003 | 12 | SAMPLE | 80013017 | B1XF49 | | SW-846 8260B Volatiles, separate prep |
| 6001 | 6003 | 13 | SAMPLE | 80013018 | B1XF51 | | SW-846 8260B Volatiles, separate prep |
| 6001 | 6003 | 14 | SAMPLE | 80013019 | B1XF59 | | SW-846 8260B Volatiles, separate prep |
| 6001 | 6003 | 15 | SAMPLE | 80013020 | B1XF61 | | SW-846 8260B Volatiles, separate prep |

## Method Reference

| | | | |
|---|---|---|---|
| **Attention** | Michael Neely | **Group #** | WSCF80013 |
| **Department** | Inorganic | **Project Number** | W09-010 |

The results provided in this report were generated using the following WSCF Laboratory procedures. For your convenience, this table provides a listing of the regulatory, industry methods or HEIS methods that are referenced by each of these WSCF procedures. Please note that the most recent version of the regulatory or industry method is listed here even though WSCF procedure may reference an older version of the method. Also, a reference to a regulatory or industry method here does not necessarily indicate a verbatim implementation of that method.

| | | | |
|---|---|---|---|
| **LA-503-401** | Analysis of Cations by Ion Chromatography | | |
| | HEIS | 300.7_CATIONS_IC | Determination of Cations by IC |
| **LA-505-411** | Elemental Analysis by ICP Atomic Emission Spectroscopy (ICP-AES) | | |
| | EPA SW-846 | 6010C | Inductively Coupled Plasma-Atomic Emmision Spectrometry |
| | HEIS | 6010_METALS_ICP | Inductively Coupled Plasma-Atomic Emmision Spectrometry |
| **LA-505-412** | Determination of Trace Elements in Waters & Wastes by ICP-Mass Spectrometry | | |
| | EPA-600/R-94-111 | 200.8 | Determination of Trace Elements in Waters and Waste by Inductively Coupled Plasma |
| | HEIS | 200.8_METALS_ICPMS | Determination of Trace Elements in Waters and Waste by Inductively Coupled Plasma, Mass Spec. |
| **LA-523-470** | Chemical Oxygen Demand | | |
| | EPA-600/4-79-020 | 410.4 | Chemical Oxygen Demand |
| | HEIS | 410.4_COD | Chemical Oxygen Demand |
| **LA-533-410** | Anion Analysis by Ion Chromatography | | |
| | EPA-600/R-94-111 | 300.0 | Determination of Inorganic Anions by Ion Chromatography |
| | HEIS | 300.0_ANIONS_IC | Determination of Inorganic Anions by Ion Chromatography |

Note: A complete list of WSCF analytical procedures and reference regulatory or industry methods is available online at http://www7.rl.gov/rapidweb/AS-DOL/index.cfm

## Method Reference

| | | | |
|---|---|---|---|
| **Attention** | Michael Neely | **Group #** | WSCF80013 |
| **Department** | Organic, Volatiles | **Project Number** | W09-010 |

The results provided in this report were generated using the following WSCF Laboratory procedures. For your convenience, this table provides a listing of the regulatory, industry methods or HEIS methods that are referenced by each of these WSCF procedures. Please note that the most recent version of the regulatory or industry method is listed here even though WSCF procedure may reference an older version of the method. Also, a reference to a regulatory or industry method here does not necessarily indicate a verbatim implementation of that method.

| | | | |
|---|---|---|---|
| **LA-523-455** | Volatile Sample Analysis by SW-846 Method 8260B | | |
| | EPA SW-846 | 8000B | Determinative Chromographic Separations |
| | EPA SW-846 | 8260B | Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) |
| | HEIS | 8260_VOA_GCMS | Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) |

Note: A complete list of WSCF analytical procedures and reference regulatory or industry methods is available online at http://www7.rl.gov/rapidweb/AS-DOL/index.cfm

## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013001
**SAF#** W09-010
**Sample ID** B1XF16

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| **ICP Prep** | | | | | | | | | | **10/21/08** |
| **ICP-AES** | | | | | | | | | | |
| Antimony | 7440-36-0 | LA-505-411 | U | <60 | | ug/L | 1 | 60 | 280 | 10/21/08 |
| Barium | 7440-39-3 | LA-505-411 | | 142 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Beryllium | 7440-41-7 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Cadmium | 7440-43-9 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Calcium | 7440-70-2 | LA-505-411 | | 1.26E5 | | ug/L | 1 | 70 | 360 | 10/21/08 |
| Chromium | 7440-47-3 | LA-505-411 | U | <10 | | ug/L | 1 | 10 | 20 | 10/21/08 |
| Cobalt | 7440-48-4 | LA-505-411 | U | <5 | | ug/L | 1 | 5 | 25 | 10/21/08 |
| Copper | 7440-50-8 | LA-505-411 | U | <6 | | ug/L | 1 | 6 | 30 | 10/21/08 |
| Iron | 7439-89-6 | LA-505-411 | U | <20 | | ug/L | 1 | 20 | 120 | 10/21/08 |
| Magnesium | 7439-95-4 | LA-505-411 | | 24600 | | ug/L | 1 | 50 | 250 | 10/21/08 |
| Manganese | 7439-96-5 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Nickel | 7440-02-0 | LA-505-411 | U | <6 | | ug/L | 1 | 6 | 30 | 10/21/08 |
| Potassium | 7440-09-7 | LA-505-411 | | 10400 | | ug/L | 1 | 200 | 850 | 10/21/08 |
| Silver | 7440-22-4 | LA-505-411 | U | <5 | | ug/L | 1 | 5 | 25 | 10/21/08 |
| Sodium | 7440-23-5 | LA-505-411 | | 20900 | | ug/L | 1 | 50 | 260 | 10/21/08 |
| Strontium | 7440-24-6 | LA-505-411 | | 788 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Vanadium | 7440-62-2 | LA-505-411 | B | 10.1 | | ug/L | 1 | 10 | 60 | 10/21/08 |

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL. (Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD sample recovery outside control limits.

M - Duplicate precision criteria not met.
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013001
**SAF#** W09-010
**Sample ID** B1XF16

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Zinc | 7440-66-6 | LA-505-411 | U | <9 | | ug/L | 1 | 9 | 45 | 10/21/08 |
| **ICPMS Prep** | | | | | | | | | | **10/28/08** |
| **ICP-MS** | | | | | | | | | | |
| Arsenic | 7440-38-2 | LA-505-412 | B | 1.73 | | ug/L | 1 | 0.4 | 4.0 | 10/29/08 |

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL. (Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD sample recovery outside control limits.

M - Duplicate precision criteria not met.
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

# WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013002
**SAF#** W09-010
**Sample ID** B1XF24

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| **ICP Prep** | | | | | | | | | | **10/21/08** |
| **ICP-AES** | | | | | | | | | | |
| Antimony | 7440-36-0 | LA-505-411 | U | <60 | | ug/L | 1 | 60 | 280 | 10/21/08 |
| Barium | 7440-39-3 | LA-505-411 | | 108 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Beryllium | 7440-41-7 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Cadmium | 7440-43-9 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Calcium | 7440-70-2 | LA-505-411 | | 1.10E5 | | ug/L | 1 | 70 | 360 | 10/21/08 |
| Chromium | 7440-47-3 | LA-505-411 | U | <10 | | ug/L | 1 | 10 | 20 | 10/21/08 |
| Cobalt | 7440-48-4 | LA-505-411 | U | <5 | | ug/L | 1 | 5 | 25 | 10/21/08 |
| Copper | 7440-50-8 | LA-505-411 | U | <6 | | ug/L | 1 | 6 | 30 | 10/21/08 |
| Iron | 7439-89-6 | LA-505-411 | U | <20 | | ug/L | 1 | 20 | 120 | 10/21/08 |
| Magnesium | 7439-95-4 | LA-505-411 | | 20300 | | ug/L | 1 | 50 | 250 | 10/21/08 |
| Manganese | 7439-96-5 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Nickel | 7440-02-0 | LA-505-411 | U | <6 | | ug/L | 1 | 6 | 30 | 10/21/08 |
| Potassium | 7440-09-7 | LA-505-411 | | 9290 | | ug/L | 1 | 200 | 850 | 10/21/08 |
| Silver | 7440-22-4 | LA-505-411 | U | <5 | | ug/L | 1 | 5 | 25 | 10/21/08 |
| Sodium | 7440-23-5 | LA-505-411 | | 20200 | | ug/L | 1 | 50 | 260 | 10/21/08 |
| Strontium | 7440-24-6 | LA-505-411 | | 635 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Vanadium | 7440-62-2 | LA-505-411 | U | <10 | | ug/L | 1 | 10 | 60 | 10/21/08 |

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL. (Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD sample recovery outside control limits.

M - Duplicate precision criteria not met.
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013002
**SAF#** W09-010
**Sample ID** B1XF24

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Zinc | 7440-66-6 | LA-505-411 | U | <9 | | ug/L | 1 | 9 | 45 | 10/21/08 |
| **ICPMS Prep** | | | | | | | | | | **10/28/08** |
| **ICP-MS** | | | | | | | | | | |
| Arsenic | 7440-38-2 | LA-505-412 | B | 2.02 | | ug/L | 1 | 0.4 | 4.0 | 10/29/08 |

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL. (Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD sample recovery outside control limits.

M - Duplicate precision criteria not met.
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013003
**SAF#** W09-010
**Sample ID** B1XF26

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| **ICP Prep** | | | | | | | | | | **10/21/08** |
| **ICP-AES** | | | | | | | | | | |
| Antimony | 7440-36-0 | LA-505-411 | U | <60 | | ug/L | 1 | 60 | 280 | 10/21/08 |
| Barium | 7440-39-3 | LA-505-411 | | 121 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Beryllium | 7440-41-7 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Cadmium | 7440-43-9 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Calcium | 7440-70-2 | LA-505-411 | | 1.19E5 | | ug/L | 1 | 70 | 360 | 10/21/08 |
| Chromium | 7440-47-3 | LA-505-411 | U | <10 | | ug/L | 1 | 10 | 20 | 10/21/08 |
| Cobalt | 7440-48-4 | LA-505-411 | U | <5 | | ug/L | 1 | 5 | 25 | 10/21/08 |
| Copper | 7440-50-8 | LA-505-411 | U | <6 | | ug/L | 1 | 6 | 30 | 10/21/08 |
| Iron | 7439-89-6 | LA-505-411 | B | 20.9 | | ug/L | 1 | 20 | 120 | 10/21/08 |
| Magnesium | 7439-95-4 | LA-505-411 | | 20400 | | ug/L | 1 | 50 | 250 | 10/21/08 |
| Manganese | 7439-96-5 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Nickel | 7440-02-0 | LA-505-411 | U | <6 | | ug/L | 1 | 6 | 30 | 10/21/08 |
| Potassium | 7440-09-7 | LA-505-411 | | 8940 | | ug/L | 1 | 200 | 850 | 10/21/08 |
| Silver | 7440-22-4 | LA-505-411 | U | <5 | | ug/L | 1 | 5 | 25 | 10/21/08 |
| Sodium | 7440-23-5 | LA-505-411 | | 19200 | | ug/L | 1 | 50 | 260 | 10/21/08 |
| Strontium | 7440-24-6 | LA-505-411 | | 676 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Vanadium | 7440-62-2 | LA-505-411 | B | 13.9 | | ug/L | 1 | 10 | 60 | 10/21/08 |

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL. (Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD sample recovery outside control limits.

M - Duplicate precision criteria not met.
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013003
**SAF#** W09-010
**Sample ID** B1XF26

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Zinc | 7440-66-6 | LA-505-411 | U | <9 | | ug/L | 1 | 9 | 45 | 10/21/08 |
| **ICPMS Prep** | | | | | | | | | | **10/28/08** |
| **ICP-MS** | | | | | | | | | | |
| Arsenic | 7440-38-2 | LA-505-412 | B | 1.86 | | ug/L | 1 | 0.4 | 4.0 | 10/30/08 |

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL. (Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD sample recovery outside control limits.

M - Duplicate precision criteria not met.
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013004
**SAF#** W09-010
**Sample ID** B1XF37

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| **ICP Prep** | | | | | | | | | | **10/21/08** |
| **ICP-AES** | | | | | | | | | | |
| Antimony | 7440-36-0 | LA-505-411 | U | <60 | | ug/L | 1 | 60 | 280 | 10/21/08 |
| Barium | 7440-39-3 | LA-505-411 | | 96.7 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Beryllium | 7440-41-7 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Cadmium | 7440-43-9 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Calcium | 7440-70-2 | LA-505-411 | | 1.13E5 | | ug/L | 1 | 70 | 360 | 10/21/08 |
| Chromium | 7440-47-3 | LA-505-411 | U | <10 | | ug/L | 1 | 10 | 20 | 10/21/08 |
| Cobalt | 7440-48-4 | LA-505-411 | U | <5 | | ug/L | 1 | 5 | 25 | 10/21/08 |
| Copper | 7440-50-8 | LA-505-411 | U | <6 | | ug/L | 1 | 6 | 30 | 10/21/08 |
| Iron | 7439-89-6 | LA-505-411 | U | <20 | | ug/L | 1 | 20 | 120 | 10/21/08 |
| Magnesium | 7439-95-4 | LA-505-411 | | 22900 | | ug/L | 1 | 50 | 250 | 10/21/08 |
| Manganese | 7439-96-5 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Nickel | 7440-02-0 | LA-505-411 | U | <6 | | ug/L | 1 | 6 | 30 | 10/21/08 |
| Potassium | 7440-09-7 | LA-505-411 | | 9400 | | ug/L | 1 | 200 | 850 | 10/21/08 |
| Silver | 7440-22-4 | LA-505-411 | U | <5 | | ug/L | 1 | 5 | 25 | 10/21/08 |
| Sodium | 7440-23-5 | LA-505-411 | | 21600 | | ug/L | 1 | 50 | 260 | 10/21/08 |
| Strontium | 7440-24-6 | LA-505-411 | | 647 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Vanadium | 7440-62-2 | LA-505-411 | B | 12.9 | | ug/L | 1 | 10 | 60 | 10/21/08 |

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL. (Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD sample recovery outside control limits.

M - Duplicate precision criteria not met.
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013004
**SAF#** W09-010
**Sample ID** B1XF37

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Zinc | 7440-66-6 | LA-505-411 | U | <9 | | ug/L | 1 | 9 | 45 | 10/21/08 |
| **ICPMS Prep** | | | | | | | | | | **10/28/08** |
| **ICP-MS** | | | | | | | | | | |
| Arsenic | 7440-38-2 | LA-505-412 | B | 2.13 | | ug/L | 1 | 0.4 | 4.0 | 10/29/08 |

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL. (Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD sample recovery outside control limits.

M - Duplicate precision criteria not met.
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013005
**SAF#** W09-010
**Sample ID** B1XF39

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| **ICP Prep** | | | | | | | | | | **10/21/08** |
| **ICP-AES** | | | | | | | | | | |
| Antimony | 7440-36-0 | LA-505-411 | U | <60 | | ug/L | 1 | 60 | 280 | 10/21/08 |
| Barium | 7440-39-3 | LA-505-411 | | 93.0 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Beryllium | 7440-41-7 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Cadmium | 7440-43-9 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Calcium | 7440-70-2 | LA-505-411 | | 95500 | | ug/L | 1 | 70 | 360 | 10/21/08 |
| Chromium | 7440-47-3 | LA-505-411 | U | <10 | | ug/L | 1 | 10 | 20 | 10/21/08 |
| Cobalt | 7440-48-4 | LA-505-411 | U | <5 | | ug/L | 1 | 5 | 25 | 10/21/08 |
| Copper | 7440-50-8 | LA-505-411 | U | <6 | | ug/L | 1 | 6 | 30 | 10/21/08 |
| Iron | 7439-89-6 | LA-505-411 | U | <20 | | ug/L | 1 | 20 | 120 | 10/21/08 |
| Magnesium | 7439-95-4 | LA-505-411 | | 20000 | | ug/L | 1 | 50 | 250 | 10/21/08 |
| Manganese | 7439-96-5 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Nickel | 7440-02-0 | LA-505-411 | B | 9.50 | | ug/L | 1 | 6 | 30 | 10/21/08 |
| Potassium | 7440-09-7 | LA-505-411 | | 9560 | | ug/L | 1 | 200 | 850 | 10/21/08 |
| Silver | 7440-22-4 | LA-505-411 | U | <5 | | ug/L | 1 | 5 | 25 | 10/21/08 |
| Sodium | 7440-23-5 | LA-505-411 | | 22000 | | ug/L | 1 | 50 | 260 | 10/21/08 |
| Strontium | 7440-24-6 | LA-505-411 | | 580 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Vanadium | 7440-62-2 | LA-505-411 | B | 10.4 | | ug/L | 1 | 10 | 60 | 10/21/08 |

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL. (Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD sample recovery outside control limits.

M - Duplicate precision criteria not met.
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013005
**SAF#** W09-010
**Sample ID** B1XF39

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Zinc | 7440-66-6 | LA-505-411 | U | <9 | | ug/L | 1 | 9 | 45 | 10/21/08 |
| **ICPMS Prep** | | | | | | | | | | **10/28/08** |
| **ICP-MS** | | | | | | | | | | |
| Arsenic | 7440-38-2 | LA-505-412 | B | 2.07 | | ug/L | 1 | 0.4 | 4.0 | 10/30/08 |

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL. (Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD sample recovery outside control limits.

M - Duplicate precision criteria not met.
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013006
**SAF#** W09-010
**Sample ID** B1XF41

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| **ICP Prep** | | | | | | | | | | **10/21/08** |
| **ICP-AES** | | | | | | | | | | |
| Antimony | 7440-36-0 | LA-505-411 | U | <60 | | ug/L | 1 | 60 | 280 | 10/21/08 |
| Barium | 7440-39-3 | LA-505-411 | | 90.2 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Beryllium | 7440-41-7 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Cadmium | 7440-43-9 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Calcium | 7440-70-2 | LA-505-411 | | 1.02E5 | | ug/L | 1 | 70 | 360 | 10/21/08 |
| Chromium | 7440-47-3 | LA-505-411 | U | <10 | | ug/L | 1 | 10 | 20 | 10/21/08 |
| Cobalt | 7440-48-4 | LA-505-411 | U | <5 | | ug/L | 1 | 5 | 25 | 10/21/08 |
| Copper | 7440-50-8 | LA-505-411 | U | <6 | | ug/L | 1 | 6 | 30 | 10/21/08 |
| Iron | 7439-89-6 | LA-505-411 | B | 51.3 | | ug/L | 1 | 20 | 120 | 10/21/08 |
| Magnesium | 7439-95-4 | LA-505-411 | | 20800 | | ug/L | 1 | 50 | 250 | 10/21/08 |
| Manganese | 7439-96-5 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Nickel | 7440-02-0 | LA-505-411 | B | 10.8 | | ug/L | 1 | 6 | 30 | 10/21/08 |
| Potassium | 7440-09-7 | LA-505-411 | | 9330 | | ug/L | 1 | 200 | 850 | 10/21/08 |
| Silver | 7440-22-4 | LA-505-411 | U | <5 | | ug/L | 1 | 5 | 25 | 10/21/08 |
| Sodium | 7440-23-5 | LA-505-411 | | 24100 | | ug/L | 1 | 50 | 260 | 10/21/08 |
| Strontium | 7440-24-6 | LA-505-411 | | 594 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Vanadium | 7440-62-2 | LA-505-411 | U | <10 | | ug/L | 1 | 10 | 60 | 10/21/08 |

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL. (Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD sample recovery outside control limits.

M - Duplicate precision criteria not met.
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013006
**SAF#** W09-010
**Sample ID** B1XF41

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Zinc | 7440-66-6 | LA-505-411 | U | <9 | | ug/L | 1 | 9 | 45 | 10/21/08 |
| **ICPMS Prep** | | | | | | | | | | **11/10/08** |
| **ICP-MS** | | | | | | | | | | |
| Arsenic | 7440-38-2 | LA-505-412 | B | 1.88 | | ug/L | 1 | 0.4 | 4.0 | 11/10/08 |

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL. (Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD sample recovery outside control limits.

M - Duplicate precision criteria not met.
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013007
**SAF#** W09-010
**Sample ID** B1XF48

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| **ICP Prep** | | | | | | | | | | **10/21/08** |
| **ICP-AES** | | | | | | | | | | |
| Antimony | 7440-36-0 | LA-505-411 | U | <60 | | ug/L | 1 | 60 | 280 | 10/21/08 |
| Barium | 7440-39-3 | LA-505-411 | | 80.9 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Beryllium | 7440-41-7 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Cadmium | 7440-43-9 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Calcium | 7440-70-2 | LA-505-411 | | 1.11E5 | | ug/L | 1 | 70 | 360 | 10/21/08 |
| Chromium | 7440-47-3 | LA-505-411 | U | <10 | | ug/L | 1 | 10 | 20 | 10/21/08 |
| Cobalt | 7440-48-4 | LA-505-411 | U | <5 | | ug/L | 1 | 5 | 25 | 10/21/08 |
| Copper | 7440-50-8 | LA-505-411 | U | <6 | | ug/L | 1 | 6 | 30 | 10/21/08 |
| Iron | 7439-89-6 | LA-505-411 | U | <20 | | ug/L | 1 | 20 | 120 | 10/21/08 |
| Magnesium | 7439-95-4 | LA-505-411 | | 21600 | | ug/L | 1 | 50 | 250 | 10/21/08 |
| Manganese | 7439-96-5 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Nickel | 7440-02-0 | LA-505-411 | U | <6 | | ug/L | 1 | 6 | 30 | 10/21/08 |
| Potassium | 7440-09-7 | LA-505-411 | | 9110 | | ug/L | 1 | 200 | 850 | 10/21/08 |
| Silver | 7440-22-4 | LA-505-411 | U | <5 | | ug/L | 1 | 5 | 25 | 10/21/08 |
| Sodium | 7440-23-5 | LA-505-411 | | 21000 | | ug/L | 1 | 50 | 260 | 10/21/08 |
| Strontium | 7440-24-6 | LA-505-411 | | 620 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Vanadium | 7440-62-2 | LA-505-411 | U | <10 | | ug/L | 1 | 10 | 60 | 10/21/08 |

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

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C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD sample recovery outside control limits.

M - Duplicate precision criteria not met.
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013007
**SAF#** W09-010
**Sample ID** B1XF48

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Zinc | 7440-66-6 | LA-505-411 | U | <9 | | ug/L | 1 | 9 | 45 | 10/21/08 |
| **ICPMS Prep** | | | | | | | | | | **10/28/08** |
| **ICP-MS** | | | | | | | | | | |
| Arsenic | 7440-38-2 | LA-505-412 | B | 1.65 | | ug/L | 1 | 0.4 | 4.0 | 10/30/08 |

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL. (Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD sample recovery outside control limits.

M - Duplicate precision criteria not met.
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013008
**SAF#** W09-010
**Sample ID** B1XF50

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| **ICP Prep** | | | | | | | | | | **10/21/08** |
| **ICP-AES** | | | | | | | | | | |
| Antimony | 7440-36-0 | LA-505-411 | U | <60 | | ug/L | 1 | 60 | 280 | 10/21/08 |
| Barium | 7440-39-3 | LA-505-411 | | 71.9 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Beryllium | 7440-41-7 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Cadmium | 7440-43-9 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Calcium | 7440-70-2 | LA-505-411 | | 98700 | | ug/L | 1 | 70 | 360 | 10/21/08 |
| Chromium | 7440-47-3 | LA-505-411 | U | <10 | | ug/L | 1 | 10 | 20 | 10/21/08 |
| Cobalt | 7440-48-4 | LA-505-411 | U | <5 | | ug/L | 1 | 5 | 25 | 10/21/08 |
| Copper | 7440-50-8 | LA-505-411 | U | <6 | | ug/L | 1 | 6 | 30 | 10/21/08 |
| Iron | 7439-89-6 | LA-505-411 | B | 20.5 | | ug/L | 1 | 20 | 120 | 10/21/08 |
| Magnesium | 7439-95-4 | LA-505-411 | | 19200 | | ug/L | 1 | 50 | 250 | 10/21/08 |
| Manganese | 7439-96-5 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Nickel | 7440-02-0 | LA-505-411 | B | 6.50 | | ug/L | 1 | 6 | 30 | 10/21/08 |
| Potassium | 7440-09-7 | LA-505-411 | | 8520 | | ug/L | 1 | 200 | 850 | 10/21/08 |
| Silver | 7440-22-4 | LA-505-411 | U | <5 | | ug/L | 1 | 5 | 25 | 10/21/08 |
| Sodium | 7440-23-5 | LA-505-411 | | 19400 | | ug/L | 1 | 50 | 260 | 10/21/08 |
| Strontium | 7440-24-6 | LA-505-411 | | 560 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Vanadium | 7440-62-2 | LA-505-411 | U | <10 | | ug/L | 1 | 10 | 60 | 10/21/08 |

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL. (Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD sample recovery outside control limits.

M - Duplicate precision criteria not met.
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013008
**SAF#** W09-010
**Sample ID** B1XF50

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Zinc | 7440-66-6 | LA-505-411 | U | <9 | | ug/L | 1 | 9 | 45 | 10/21/08 |
| **ICPMS Prep** | | | | | | | | | | **10/28/08** |
| **ICP-MS** | | | | | | | | | | |
| Arsenic | 7440-38-2 | LA-505-412 | B | 1.58 | | ug/L | 1 | 0.4 | 4.0 | 10/30/08 |

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL. (Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD sample recovery outside control limits.

M - Duplicate precision criteria not met.
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013009
**SAF#** W09-010
**Sample ID** B1XF58

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| **ICP Prep** | | | | | | | | | | **10/21/08** |
| **ICP-AES** | | | | | | | | | | |
| Antimony | 7440-36-0 | LA-505-411 | U | <60 | | ug/L | 1 | 60 | 280 | 10/21/08 |
| Barium | 7440-39-3 | LA-505-411 | | 78.2 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Beryllium | 7440-41-7 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Cadmium | 7440-43-9 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Calcium | 7440-70-2 | LA-505-411 | | 79900 | | ug/L | 1 | 70 | 360 | 10/21/08 |
| Chromium | 7440-47-3 | LA-505-411 | U | <10 | | ug/L | 1 | 10 | 20 | 10/21/08 |
| Cobalt | 7440-48-4 | LA-505-411 | U | <5 | | ug/L | 1 | 5 | 25 | 10/21/08 |
| Copper | 7440-50-8 | LA-505-411 | U | <6 | | ug/L | 1 | 6 | 30 | 10/21/08 |
| Iron | 7439-89-6 | LA-505-411 | U | <20 | | ug/L | 1 | 20 | 120 | 10/21/08 |
| Magnesium | 7439-95-4 | LA-505-411 | | 15900 | | ug/L | 1 | 50 | 250 | 10/21/08 |
| Manganese | 7439-96-5 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Nickel | 7440-02-0 | LA-505-411 | U | <6 | | ug/L | 1 | 6 | 30 | 10/21/08 |
| Potassium | 7440-09-7 | LA-505-411 | | 8480 | | ug/L | 1 | 200 | 850 | 10/21/08 |
| Silver | 7440-22-4 | LA-505-411 | U | <5 | | ug/L | 1 | 5 | 25 | 10/21/08 |
| Sodium | 7440-23-5 | LA-505-411 | | 21000 | | ug/L | 1 | 50 | 260 | 10/21/08 |
| Strontium | 7440-24-6 | LA-505-411 | | 494 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Vanadium | 7440-62-2 | LA-505-411 | B | 12.8 | | ug/L | 1 | 10 | 60 | 10/21/08 |

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL. (Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD sample recovery outside control limits.

M - Duplicate precision criteria not met.
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013009
**SAF#** W09-010
**Sample ID** B1XF58

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Zinc | 7440-66-6 | LA-505-411 | U | <9 | | ug/L | 1 | 9 | 45 | 10/21/08 |
| **ICPMS Prep** | | | | | | | | | | **10/28/08** |
| **ICP-MS** | | | | | | | | | | |
| Arsenic | 7440-38-2 | LA-505-412 | B | 2.62 | | ug/L | 1 | 0.4 | 4.0 | 10/30/08 |

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL. (Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD sample recovery outside control limits.

M - Duplicate precision criteria not met.
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013010
**SAF#** W09-010
**Sample ID** B1XF60

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| **ICP Prep** | | | | | | | | | | **10/21/08** |
| **ICP-AES** | | | | | | | | | | |
| Antimony | 7440-36-0 | LA-505-411 | U | <60 | | ug/L | 1 | 60 | 280 | 10/21/08 |
| Barium | 7440-39-3 | LA-505-411 | | 52.2 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Beryllium | 7440-41-7 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Cadmium | 7440-43-9 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Calcium | 7440-70-2 | LA-505-411 | | 67600 | | ug/L | 1 | 70 | 360 | 10/21/08 |
| Chromium | 7440-47-3 | LA-505-411 | U | <10 | | ug/L | 1 | 10 | 20 | 10/21/08 |
| Cobalt | 7440-48-4 | LA-505-411 | U | <5 | | ug/L | 1 | 5 | 25 | 10/21/08 |
| Copper | 7440-50-8 | LA-505-411 | U | <6 | | ug/L | 1 | 6 | 30 | 10/21/08 |
| Iron | 7439-89-6 | LA-505-411 | U | <20 | | ug/L | 1 | 20 | 120 | 10/21/08 |
| Magnesium | 7439-95-4 | LA-505-411 | | 15800 | | ug/L | 1 | 50 | 250 | 10/21/08 |
| Manganese | 7439-96-5 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Nickel | 7440-02-0 | LA-505-411 | U | <6 | | ug/L | 1 | 6 | 30 | 10/21/08 |
| Potassium | 7440-09-7 | LA-505-411 | | 7600 | | ug/L | 1 | 200 | 850 | 10/21/08 |
| Silver | 7440-22-4 | LA-505-411 | U | <5 | | ug/L | 1 | 5 | 25 | 10/21/08 |
| Sodium | 7440-23-5 | LA-505-411 | | 20200 | | ug/L | 1 | 50 | 260 | 10/21/08 |
| Strontium | 7440-24-6 | LA-505-411 | | 433 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Vanadium | 7440-62-2 | LA-505-411 | B | 11.5 | | ug/L | 1 | 10 | 60 | 10/21/08 |

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

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C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD sample recovery outside control limits.

M - Duplicate precision criteria not met.
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013010
**SAF#** W09-010
**Sample ID** B1XF60

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Zinc | 7440-66-6 | LA-505-411 | U | <9 | | ug/L | 1 | 9 | 45 | 10/21/08 |
| **ICPMS Prep** | | | | | | | | | | **10/28/08** |
| **ICP-MS** | | | | | | | | | | |
| Arsenic | 7440-38-2 | LA-505-412 | B | 2.92 | | ug/L | 1 | 0.4 | 4.0 | 10/29/08 |

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

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C - Analyte was found in the Associated Blank. (Inorganic)
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X,Y or Z - See comment detail and/or narrative.

## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013011
**SAF#** W09-010
**Sample ID** B1XF17

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| **Anions by IC** | | | | | | | | | | **10/14/08** |
| **Anions by IC** | | | | | | | | | | |
| Chloride | 16887-00-6 | LA-533-410 | DN | 6.64 | | ug/mL | 2 | 0.09 | 0.80 | 10/14/08 |
| Fluoride | 16984-48-8 | LA-533-410 | UD | <0.05 | | ug/mL | 2 | 0.05 | 0.40 | 10/14/08 |
| Nitrate-N | NO3-N | LA-533-410 | DN | 3.99 | | ug/mL | 2 | 0.02 | 0.20 | 10/14/08 |
| Nitrite-N | NO2-N | LA-533-410 | UD | <0.03 | | ug/mL | 2 | 0.03 | 0.20 | 10/14/08 |
| Sulfate | 14808-79-8 | LA-533-410 | D | 43.6 | | ug/mL | 2 | 0.3 | 2.0 | 10/14/08 |
| **COD** | | | | | | | | | | **10/15/08** |
| **COD** | | | | | | | | | | |
| Chemical Oxygen Demand | COD | LA-523-470 | U | <10 | | mg/L | 1 | 10 | | 10/15/08 |
| **Cation by IC** | | | | | | | | | | **10/16/08** |
| **Cation by IC** | | | | | | | | | | |
| Ammonia (N) | 7664-41-7 | LA-503-401 | U | <4.E-3 | | ug/mL | 1 | 4.E-3 | 0.040 | 10/16/08 |
| **ICP Prep** | | | | | | | | | | **10/21/08** |
| **ICP-AES** | | | | | | | | | | |
| Antimony | 7440-36-0 | LA-505-411 | U | <60 | | ug/L | 1 | 60 | 280 | 10/21/08 |
| Barium | 7440-39-3 | LA-505-411 | | 142 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Beryllium | 7440-41-7 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Cadmium | 7440-43-9 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

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U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013011
**SAF#** W09-010
**Sample ID** B1XF17

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Calcium | 7440-70-2 | LA-505-411 | | 1.23E5 | | ug/L | 1 | 70 | 360 | 10/21/08 |
| Chromium | 7440-47-3 | LA-505-411 | U | <10 | | ug/L | 1 | 10 | 20 | 10/21/08 |
| Cobalt | 7440-48-4 | LA-505-411 | U | <5 | | ug/L | 1 | 5 | 25 | 10/21/08 |
| Copper | 7440-50-8 | LA-505-411 | U | <6 | | ug/L | 1 | 6 | 30 | 10/21/08 |
| Iron | 7439-89-6 | LA-505-411 | U | <20 | | ug/L | 1 | 20 | 120 | 10/21/08 |
| Magnesium | 7439-95-4 | LA-505-411 | | 24700 | | ug/L | 1 | 50 | 250 | 10/21/08 |
| Manganese | 7439-96-5 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Nickel | 7440-02-0 | LA-505-411 | U | <6 | | ug/L | 1 | 6 | 30 | 10/21/08 |
| Potassium | 7440-09-7 | LA-505-411 | | 10200 | | ug/L | 1 | 200 | 850 | 10/21/08 |
| Silver | 7440-22-4 | LA-505-411 | B1 | 12.7 | | ug/L | 1 | 5 | 25 | 10/21/08 |
| Sodium | 7440-23-5 | LA-505-411 | | 21000 | | ug/L | 1 | 50 | 260 | 10/21/08 |
| Strontium | 7440-24-6 | LA-505-411 | | 788 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Vanadium | 7440-62-2 | LA-505-411 | B | 12.0 | | ug/L | 1 | 10 | 60 | 10/21/08 |
| Zinc | 7440-66-6 | LA-505-411 | U | <9 | | ug/L | 1 | 9 | 45 | 10/21/08 |
| **ICPMS Prep** | | | | | | | | | | **11/10/08** |
| **ICP-MS** | | | | | | | | | | |
| Arsenic | 7440-38-2 | LA-505-412 | B | 1.64 | | ug/L | 1 | 0.4 | 4.0 | 11/10/08 |

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL. (Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD sample recovery outside control limits.

M - Duplicate precision criteria not met.
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013012
**SAF#** W09-010
**Sample ID** B1XF25

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| **Anions by IC** | | | | | | | | | | **10/14/08** |
| **Anions by IC** | | | | | | | | | | |
| Chloride | 16887-00-6 | LA-533-410 | DN | 6.78 | | ug/mL | 2 | 0.09 | 0.80 | 10/14/08 |
| Fluoride | 16984-48-8 | LA-533-410 | BD | 0.0920 | | ug/mL | 2 | 0.05 | 0.40 | 10/14/08 |
| Nitrate-N | NO3-N | LA-533-410 | DN | 4.26 | | ug/mL | 2 | 0.02 | 0.20 | 10/14/08 |
| Nitrite-N | NO2-N | LA-533-410 | UD | <0.03 | | ug/mL | 2 | 0.03 | 0.20 | 10/14/08 |
| Sulfate | 14808-79-8 | LA-533-410 | D | 48.7 | | ug/mL | 2 | 0.3 | 2.0 | 10/14/08 |
| **COD** | | | | | | | | | | **10/15/08** |
| **COD** | | | | | | | | | | |
| Chemical Oxygen Demand | COD | LA-523-470 | U | <10 | | mg/L | 1 | 10 | | 10/15/08 |
| **Cation by IC** | | | | | | | | | | **10/16/08** |
| **Cation by IC** | | | | | | | | | | |
| Ammonia (N) | 7664-41-7 | LA-503-401 | U | <4.E-3 | | ug/mL | 1 | 4.E-3 | 0.040 | 10/16/08 |
| **ICP Prep** | | | | | | | | | | **10/21/08** |
| **ICP-AES** | | | | | | | | | | |
| Antimony | 7440-36-0 | LA-505-411 | U | <60 | | ug/L | 1 | 60 | 280 | 10/21/08 |
| Barium | 7440-39-3 | LA-505-411 | | 110 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Beryllium | 7440-41-7 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Cadmium | 7440-43-9 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |

MDL = Minimum Detection
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M - Duplicate precision criteria not met.
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X,Y or Z - See comment detail and/or narrative.

## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013012
**SAF#** W09-010
**Sample ID** B1XF25

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Calcium | 7440-70-2 | LA-505-411 | | 1.10E5 | | ug/L | 1 | 70 | 360 | 10/21/08 |
| Chromium | 7440-47-3 | LA-505-411 | U | <10 | | ug/L | 1 | 10 | 20 | 10/21/08 |
| Cobalt | 7440-48-4 | LA-505-411 | U | <5 | | ug/L | 1 | 5 | 25 | 10/21/08 |
| Copper | 7440-50-8 | LA-505-411 | U | <6 | | ug/L | 1 | 6 | 30 | 10/21/08 |
| Iron | 7439-89-6 | LA-505-411 | B | 82.8 | | ug/L | 1 | 20 | 120 | 10/21/08 |
| Magnesium | 7439-95-4 | LA-505-411 | | 21400 | | ug/L | 1 | 50 | 250 | 10/21/08 |
| Manganese | 7439-96-5 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Nickel | 7440-02-0 | LA-505-411 | U | <6 | | ug/L | 1 | 6 | 30 | 10/21/08 |
| Potassium | 7440-09-7 | LA-505-411 | | 9580 | | ug/L | 1 | 200 | 850 | 10/21/08 |
| Silver | 7440-22-4 | LA-505-411 | B1 | 7.00 | | ug/L | 1 | 5 | 25 | 10/21/08 |
| Sodium | 7440-23-5 | LA-505-411 | | 21600 | | ug/L | 1 | 50 | 260 | 10/21/08 |
| Strontium | 7440-24-6 | LA-505-411 | | 658 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Vanadium | 7440-62-2 | LA-505-411 | B | 10.8 | | ug/L | 1 | 10 | 60 | 10/21/08 |
| Zinc | 7440-66-6 | LA-505-411 | | 203 | | ug/L | 1 | 9 | 45 | 10/21/08 |
| **ICPMS Prep** | | | | | | | | | | **10/28/08** |
| **ICP-MS** | | | | | | | | | | |
| Arsenic | 7440-38-2 | LA-505-412 | B | 1.96 | | ug/L | 1 | 0.4 | 4.0 | 10/30/08 |

MDL = Minimum Detection
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DF = Dilution Factor
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C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD sample recovery outside control limits.

M - Duplicate precision criteria not met.
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013013
**SAF#** W09-010
**Sample ID** B1XF27

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| **Anions by IC** | | | | | | | | | | **10/14/08** |
| **Anions by IC** | | | | | | | | | | |
| Chloride | 16887-00-6 | LA-533-410 | DN | 6.30 | | ug/mL | 2 | 0.09 | 0.80 | 10/14/08 |
| Fluoride | 16984-48-8 | LA-533-410 | BD | 0.0728 | | ug/mL | 2 | 0.05 | 0.40 | 10/14/08 |
| Nitrate-N | NO3-N | LA-533-410 | DN | 3.85 | | ug/mL | 2 | 0.02 | 0.20 | 10/14/08 |
| Nitrite-N | NO2-N | LA-533-410 | UD | <0.03 | | ug/mL | 2 | 0.03 | 0.20 | 10/14/08 |
| Sulfate | 14808-79-8 | LA-533-410 | D | 44.3 | | ug/mL | 2 | 0.3 | 2.0 | 10/14/08 |
| **COD** | | | | | | | | | | **10/15/08** |
| **COD** | | | | | | | | | | |
| Chemical Oxygen Demand | COD | LA-523-470 | U | <10 | | mg/L | 1 | 10 | | 10/15/08 |
| **Cation by IC** | | | | | | | | | | **10/16/08** |
| **Cation by IC** | | | | | | | | | | |
| Ammonia (N) | 7664-41-7 | LA-503-401 | U | <4.E-3 | | ug/mL | 1 | 4.E-3 | 0.040 | 10/16/08 |
| **ICP Prep** | | | | | | | | | | **10/21/08** |
| **ICP-AES** | | | | | | | | | | |
| Antimony | 7440-36-0 | LA-505-411 | U | <60 | | ug/L | 1 | 60 | 280 | 10/21/08 |
| Barium | 7440-39-3 | LA-505-411 | | 120 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Beryllium | 7440-41-7 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Cadmium | 7440-43-9 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL. (Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD sample recovery outside control limits.

M - Duplicate precision criteria not met.
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013013
**SAF#** W09-010
**Sample ID** B1XF27

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Calcium | 7440-70-2 | LA-505-411 | | 1.15E5 | | ug/L | 1 | 70 | 360 | 10/21/08 |
| Chromium | 7440-47-3 | LA-505-411 | U | <10 | | ug/L | 1 | 10 | 20 | 10/21/08 |
| Cobalt | 7440-48-4 | LA-505-411 | U | <5 | | ug/L | 1 | 5 | 25 | 10/21/08 |
| Copper | 7440-50-8 | LA-505-411 | U | <6 | | ug/L | 1 | 6 | 30 | 10/21/08 |
| Iron | 7439-89-6 | LA-505-411 | B | 27.6 | | ug/L | 1 | 20 | 120 | 10/21/08 |
| Magnesium | 7439-95-4 | LA-505-411 | | 20600 | | ug/L | 1 | 50 | 250 | 10/21/08 |
| Manganese | 7439-96-5 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Nickel | 7440-02-0 | LA-505-411 | U | <6 | | ug/L | 1 | 6 | 30 | 10/21/08 |
| Potassium | 7440-09-7 | LA-505-411 | | 9040 | | ug/L | 1 | 200 | 850 | 10/21/08 |
| Silver | 7440-22-4 | LA-505-411 | U | <5 | | ug/L | 1 | 5 | 25 | 10/21/08 |
| Sodium | 7440-23-5 | LA-505-411 | | 19800 | | ug/L | 1 | 50 | 260 | 10/21/08 |
| Strontium | 7440-24-6 | LA-505-411 | | 670 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Vanadium | 7440-62-2 | LA-505-411 | U | <10 | | ug/L | 1 | 10 | 60 | 10/21/08 |
| Zinc | 7440-66-6 | LA-505-411 | U | <9 | | ug/L | 1 | 9 | 45 | 10/21/08 |
| **ICPMS Prep** | | | | | | | | | | **10/28/08** |
| **ICP-MS** | | | | | | | | | | |
| Arsenic | 7440-38-2 | LA-505-412 | B | 1.75 | | ug/L | 1 | 0.4 | 4.0 | 10/30/08 |

MDL = Minimum Detection
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E - Analyte is an estimate, see comment section.
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M - Duplicate precision criteria not met.
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013014
**SAF#** W09-010
**Sample ID** B1XF38

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| **Anions by IC** | | | | | | | | | | **10/14/08** |
| **Anions by IC** | | | | | | | | | | |
| Chloride | 16887-00-6 | LA-533-410 | DN | 6.79 | | ug/mL | 2 | 0.09 | 0.80 | 10/14/08 |
| Fluoride | 16984-48-8 | LA-533-410 | BD | 0.0853 | | ug/mL | 2 | 0.05 | 0.40 | 10/14/08 |
| Nitrate-N | NO3-N | LA-533-410 | DN | 3.37 | | ug/mL | 2 | 0.02 | 0.20 | 10/14/08 |
| Nitrite-N | NO2-N | LA-533-410 | UD | <0.03 | | ug/mL | 2 | 0.03 | 0.20 | 10/14/08 |
| Sulfate | 14808-79-8 | LA-533-410 | D | 44.1 | | ug/mL | 2 | 0.3 | 2.0 | 10/14/08 |
| **COD** | | | | | | | | | | **10/15/08** |
| **COD** | | | | | | | | | | |
| Chemical Oxygen Demand | COD | LA-523-470 | U | <10 | | mg/L | 1 | 10 | | 10/15/08 |
| **Cation by IC** | | | | | | | | | | **10/16/08** |
| **Cation by IC** | | | | | | | | | | |
| Ammonia (N) | 7664-41-7 | LA-503-401 | B | 0.00660 | | ug/mL | 1 | 4.E-3 | 0.040 | 10/16/08 |
| **ICP Prep** | | | | | | | | | | **10/21/08** |
| **ICP-AES** | | | | | | | | | | |
| Antimony | 7440-36-0 | LA-505-411 | U | <60 | | ug/L | 1 | 60 | 280 | 10/21/08 |
| Barium | 7440-39-3 | LA-505-411 | | 92.1 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Beryllium | 7440-41-7 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Cadmium | 7440-43-9 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL. (Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
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E - Analyte is an estimate, see comment section.
N - MS and/or MSD sample recovery outside control limits.

M - Duplicate precision criteria not met.
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013014
**SAF#** W09-010
**Sample ID** B1XF38

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Calcium | 7440-70-2 | LA-505-411 | | 1.10E5 | | ug/L | 1 | 70 | 360 | 10/21/08 |
| Chromium | 7440-47-3 | LA-505-411 | U | <10 | | ug/L | 1 | 10 | 20 | 10/21/08 |
| Cobalt | 7440-48-4 | LA-505-411 | U | <5 | | ug/L | 1 | 5 | 25 | 10/21/08 |
| Copper | 7440-50-8 | LA-505-411 | U | <6 | | ug/L | 1 | 6 | 30 | 10/21/08 |
| Iron | 7439-89-6 | LA-505-411 | U | <20 | | ug/L | 1 | 20 | 120 | 10/21/08 |
| Magnesium | 7439-95-4 | LA-505-411 | | 21800 | | ug/L | 1 | 50 | 250 | 10/21/08 |
| Manganese | 7439-96-5 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Nickel | 7440-02-0 | LA-505-411 | U | <6 | | ug/L | 1 | 6 | 30 | 10/21/08 |
| Potassium | 7440-09-7 | LA-505-411 | | 8720 | | ug/L | 1 | 200 | 850 | 10/21/08 |
| Silver | 7440-22-4 | LA-505-411 | U | <5 | | ug/L | 1 | 5 | 25 | 10/21/08 |
| Sodium | 7440-23-5 | LA-505-411 | | 20100 | | ug/L | 1 | 50 | 260 | 10/21/08 |
| Strontium | 7440-24-6 | LA-505-411 | | 627 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Vanadium | 7440-62-2 | LA-505-411 | U | <10 | | ug/L | 1 | 10 | 60 | 10/21/08 |
| Zinc | 7440-66-6 | LA-505-411 | U | <9 | | ug/L | 1 | 9 | 45 | 10/21/08 |
| **ICPMS Prep** | | | | | | | | | | **10/28/08** |
| **ICP-MS** | | | | | | | | | | |
| Arsenic | 7440-38-2 | LA-505-412 | B | 2.00 | | ug/L | 1 | 0.4 | 4.0 | 10/30/08 |

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## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013015
**SAF#** W09-010
**Sample ID** B1XF40

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| **Anions by IC** | | | | | | | | | | **10/14/08** |
| **Anions by IC** | | | | | | | | | | |
| Chloride | 16887-00-6 | LA-533-410 | DN | 7.06 | | ug/mL | 2 | 0.09 | 0.80 | 10/14/08 |
| Fluoride | 16984-48-8 | LA-533-410 | UD | <0.05 | | ug/mL | 2 | 0.05 | 0.40 | 10/14/08 |
| Nitrate-N | NO3-N | LA-533-410 | DN | 3.25 | | ug/mL | 2 | 0.02 | 0.20 | 10/14/08 |
| Nitrite-N | NO2-N | LA-533-410 | UD | <0.03 | | ug/mL | 2 | 0.03 | 0.20 | 10/14/08 |
| Sulfate | 14808-79-8 | LA-533-410 | D | 46.7 | | ug/mL | 2 | 0.3 | 2.0 | 10/14/08 |
| **COD** | | | | | | | | | | **10/15/08** |
| **COD** | | | | | | | | | | |
| Chemical Oxygen Demand | COD | LA-523-470 | U | <10 | | mg/L | 1 | 10 | | 10/15/08 |
| **Cation by IC** | | | | | | | | | | **10/16/08** |
| **Cation by IC** | | | | | | | | | | |
| Ammonia (N) | 7664-41-7 | LA-503-401 | U | <4.E-3 | | ug/mL | 1 | 4.E-3 | 0.040 | 10/16/08 |
| **ICP Prep** | | | | | | | | | | **10/21/08** |
| **ICP-AES** | | | | | | | | | | |
| Antimony | 7440-36-0 | LA-505-411 | U | <60 | | ug/L | 1 | 60 | 280 | 10/21/08 |
| Barium | 7440-39-3 | LA-505-411 | | 87.7 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Beryllium | 7440-41-7 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Cadmium | 7440-43-9 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |

MDL = Minimum Detection
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TP Err = Total Propagated
DF = Dilution Factor
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X,Y or Z - See comment detail and/or narrative.

## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013015
**SAF#** W09-010
**Sample ID** B1XF40

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Calcium | 7440-70-2 | LA-505-411 | | 98100 | | ug/L | 1 | 70 | 360 | 10/21/08 |
| Chromium | 7440-47-3 | LA-505-411 | U | <10 | | ug/L | 1 | 10 | 20 | 10/21/08 |
| Cobalt | 7440-48-4 | LA-505-411 | U | <5 | | ug/L | 1 | 5 | 25 | 10/21/08 |
| Copper | 7440-50-8 | LA-505-411 | U | <6 | | ug/L | 1 | 6 | 30 | 10/21/08 |
| Iron | 7439-89-6 | LA-505-411 | B | 26.9 | | ug/L | 1 | 20 | 120 | 10/21/08 |
| Magnesium | 7439-95-4 | LA-505-411 | | 18700 | | ug/L | 1 | 50 | 250 | 10/21/08 |
| Manganese | 7439-96-5 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Nickel | 7440-02-0 | LA-505-411 | B | 14.0 | | ug/L | 1 | 6 | 30 | 10/21/08 |
| Potassium | 7440-09-7 | LA-505-411 | | 8380 | | ug/L | 1 | 200 | 850 | 10/21/08 |
| Silver | 7440-22-4 | LA-505-411 | U | <5 | | ug/L | 1 | 5 | 25 | 10/21/08 |
| Sodium | 7440-23-5 | LA-505-411 | | 19400 | | ug/L | 1 | 50 | 260 | 10/21/08 |
| Strontium | 7440-24-6 | LA-505-411 | | 562 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Vanadium | 7440-62-2 | LA-505-411 | U | <10 | | ug/L | 1 | 10 | 60 | 10/21/08 |
| Zinc | 7440-66-6 | LA-505-411 | U | <9 | | ug/L | 1 | 9 | 45 | 10/21/08 |
| **ICPMS Prep** | | | | | | | | | | **10/28/08** |
| **ICP-MS** | | | | | | | | | | |
| Arsenic | 7440-38-2 | LA-505-412 | B | 2.24 | | ug/L | 1 | 0.4 | 4.0 | 10/30/08 |

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL. (Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD sample recovery outside control limits.

M - Duplicate precision criteria not met.
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013016
**SAF#** W09-010
**Sample ID** B1XF42

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| **Anions by IC** | | | | | | | | | | **10/14/08** |
| **Anions by IC** | | | | | | | | | | |
| Chloride | 16887-00-6 | LA-533-410 | DN | 7.12 | | ug/mL | 2 | 0.09 | 0.80 | 10/14/08 |
| Fluoride | 16984-48-8 | LA-533-410 | BD | 0.145 | | ug/mL | 2 | 0.05 | 0.40 | 10/14/08 |
| Nitrate-N | NO3-N | LA-533-410 | DN | 3.98 | | ug/mL | 2 | 0.02 | 0.20 | 10/14/08 |
| Nitrite-N | NO2-N | LA-533-410 | UD | <0.03 | | ug/mL | 2 | 0.03 | 0.20 | 10/14/08 |
| Sulfate | 14808-79-8 | LA-533-410 | D | 54.1 | | ug/mL | 2 | 0.3 | 2.0 | 10/14/08 |
| **COD** | | | | | | | | | | **10/15/08** |
| **COD** | | | | | | | | | | |
| Chemical Oxygen Demand | COD | LA-523-470 | U | <10 | | mg/L | 1 | 10 | | 10/15/08 |
| **Cation by IC** | | | | | | | | | | **10/16/08** |
| **Cation by IC** | | | | | | | | | | |
| Ammonia (N) | 7664-41-7 | LA-503-401 | U | <4.E-3 | | ug/mL | 1 | 4.E-3 | 0.040 | 10/16/08 |
| **ICP Prep** | | | | | | | | | | **10/21/08** |
| **ICP-AES** | | | | | | | | | | |
| Antimony | 7440-36-0 | LA-505-411 | U | <60 | | ug/L | 1 | 60 | 280 | 10/21/08 |
| Barium | 7440-39-3 | LA-505-411 | | 85.3 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Beryllium | 7440-41-7 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Cadmium | 7440-43-9 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |

MDL = Minimum Detection
RQ = Result Qualifier
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M - Duplicate precision criteria not met.
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013016
**SAF#** W09-010
**Sample ID** B1XF42

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Calcium | 7440-70-2 | LA-505-411 | | 1.01E5 | | ug/L | 1 | 70 | 360 | 10/21/08 |
| Chromium | 7440-47-3 | LA-505-411 | U | <10 | | ug/L | 1 | 10 | 20 | 10/21/08 |
| Cobalt | 7440-48-4 | LA-505-411 | U | <5 | | ug/L | 1 | 5 | 25 | 10/21/08 |
| Copper | 7440-50-8 | LA-505-411 | U | <6 | | ug/L | 1 | 6 | 30 | 10/21/08 |
| Iron | 7439-89-6 | LA-505-411 | B | 47.1 | | ug/L | 1 | 20 | 120 | 10/21/08 |
| Magnesium | 7439-95-4 | LA-505-411 | | 19700 | | ug/L | 1 | 50 | 250 | 10/21/08 |
| Manganese | 7439-96-5 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Nickel | 7440-02-0 | LA-505-411 | B | 6.80 | | ug/L | 1 | 6 | 30 | 10/21/08 |
| Potassium | 7440-09-7 | LA-505-411 | | 8510 | | ug/L | 1 | 200 | 850 | 10/21/08 |
| Silver | 7440-22-4 | LA-505-411 | U | <5 | | ug/L | 1 | 5 | 25 | 10/21/08 |
| Sodium | 7440-23-5 | LA-505-411 | | 21700 | | ug/L | 1 | 50 | 260 | 10/21/08 |
| Strontium | 7440-24-6 | LA-505-411 | | 570 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Vanadium | 7440-62-2 | LA-505-411 | U | <10 | | ug/L | 1 | 10 | 60 | 10/21/08 |
| Zinc | 7440-66-6 | LA-505-411 | U | <9 | | ug/L | 1 | 9 | 45 | 10/21/08 |
| **ICPMS Prep** | | | | | | | | | | **10/28/08** |
| **ICP-MS** | | | | | | | | | | |
| Arsenic | 7440-38-2 | LA-505-412 | B | 1.95 | | ug/L | 1 | 0.4 | 4.0 | 10/29/08 |

MDL = Minimum Detection
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+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL. (Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD sample recovery outside control limits.

M - Duplicate precision criteria not met.
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013017
**SAF#** W09-010
**Sample ID** B1XF49

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| **Anions by IC** | | | | | | | | | | **10/14/08** |
| **Anions by IC** | | | | | | | | | | |
| Chloride | 16887-00-6 | LA-533-410 | DN | 6.95 | | ug/mL | 2 | 0.09 | 0.80 | 10/14/08 |
| Fluoride | 16984-48-8 | LA-533-410 | BD | 0.139 | | ug/mL | 2 | 0.05 | 0.40 | 10/14/08 |
| Nitrate-N | NO3-N | LA-533-410 | DN | 3.35 | | ug/mL | 2 | 0.02 | 0.20 | 10/14/08 |
| Nitrite-N | NO2-N | LA-533-410 | UD | <0.03 | | ug/mL | 2 | 0.03 | 0.20 | 10/14/08 |
| Sulfate | 14808-79-8 | LA-533-410 | D | 43.2 | | ug/mL | 2 | 0.3 | 2.0 | 10/14/08 |
| **COD** | | | | | | | | | | **10/15/08** |
| **COD** | | | | | | | | | | |
| Chemical Oxygen Demand | COD | LA-523-470 | U | <10 | | mg/L | 1 | 10 | | 10/15/08 |
| **Cation by IC** | | | | | | | | | | **10/16/08** |
| **Cation by IC** | | | | | | | | | | |
| Ammonia (N) | 7664-41-7 | LA-503-401 | B | 0.00570 | | ug/mL | 1 | 4.E-3 | 0.040 | 10/16/08 |
| **ICP Prep** | | | | | | | | | | **10/21/08** |
| **ICP-AES** | | | | | | | | | | |
| Antimony | 7440-36-0 | LA-505-411 | U | <60 | | ug/L | 1 | 60 | 280 | 10/21/08 |
| Barium | 7440-39-3 | LA-505-411 | | 82.0 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Beryllium | 7440-41-7 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Cadmium | 7440-43-9 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

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C - Analyte was found in the Associated Blank. (Inorganic)
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E - Analyte is an estimate, see comment section.
N - MS and/or MSD sample recovery outside control limits.

M - Duplicate precision criteria not met.
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013017
**SAF#** W09-010
**Sample ID** B1XF49

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Calcium | 7440-70-2 | LA-505-411 | | 1.10E5 | | ug/L | 1 | 70 | 360 | 10/21/08 |
| Chromium | 7440-47-3 | LA-505-411 | B | 12.9 | | ug/L | 1 | 10 | 20 | 10/21/08 |
| Cobalt | 7440-48-4 | LA-505-411 | U | <5 | | ug/L | 1 | 5 | 25 | 10/21/08 |
| Copper | 7440-50-8 | LA-505-411 | U | <6 | | ug/L | 1 | 6 | 30 | 10/21/08 |
| Iron | 7439-89-6 | LA-505-411 | B | 51.5 | | ug/L | 1 | 20 | 120 | 10/21/08 |
| Magnesium | 7439-95-4 | LA-505-411 | | 22500 | | ug/L | 1 | 50 | 250 | 10/21/08 |
| Manganese | 7439-96-5 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Nickel | 7440-02-0 | LA-505-411 | B | 8.20 | | ug/L | 1 | 6 | 30 | 10/21/08 |
| Potassium | 7440-09-7 | LA-505-411 | | 9450 | | ug/L | 1 | 200 | 850 | 10/21/08 |
| Silver | 7440-22-4 | LA-505-411 | U | <5 | | ug/L | 1 | 5 | 25 | 10/21/08 |
| Sodium | 7440-23-5 | LA-505-411 | | 22400 | | ug/L | 1 | 50 | 260 | 10/21/08 |
| Strontium | 7440-24-6 | LA-505-411 | | 629 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Vanadium | 7440-62-2 | LA-505-411 | U | <10 | | ug/L | 1 | 10 | 60 | 10/21/08 |
| Zinc | 7440-66-6 | LA-505-411 | U | <9 | | ug/L | 1 | 9 | 45 | 10/21/08 |
| **ICPMS Prep** | | | | | | | | | | **10/28/08** |
| **ICP-MS** | | | | | | | | | | |
| Arsenic | 7440-38-2 | LA-505-412 | B | 1.72 | | ug/L | 1 | 0.4 | 4.0 | 10/29/08 |

MDL = Minimum Detection
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M - Duplicate precision criteria not met.
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013018
**SAF#** W09-010
**Sample ID** B1XF51

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| **Anions by IC** | | | | | | | | | | **10/14/08** |
| **Anions by IC** | | | | | | | | | | |
| Chloride | 16887-00-6 | LA-533-410 | DN | 6.91 | | ug/mL | 2 | 0.09 | 0.80 | 10/14/08 |
| Fluoride | 16984-48-8 | LA-533-410 | BD | 0.0927 | | ug/mL | 2 | 0.05 | 0.40 | 10/14/08 |
| Nitrate-N | NO3-N | LA-533-410 | DN | 3.38 | | ug/mL | 2 | 0.02 | 0.20 | 10/14/08 |
| Nitrite-N | NO2-N | LA-533-410 | UD | <0.03 | | ug/mL | 2 | 0.03 | 0.20 | 10/14/08 |
| Sulfate | 14808-79-8 | LA-533-410 | D | 43.2 | | ug/mL | 2 | 0.3 | 2.0 | 10/14/08 |
| **COD** | | | | | | | | | | **10/15/08** |
| **COD** | | | | | | | | | | |
| Chemical Oxygen Demand | COD | LA-523-470 | U | <10 | | mg/L | 1 | 10 | | 10/15/08 |
| **Cation by IC** | | | | | | | | | | **10/16/08** |
| **Cation by IC** | | | | | | | | | | |
| Ammonia (N) | 7664-41-7 | LA-503-401 | B | 0.0260 | | ug/mL | 1 | 4.E-3 | 0.040 | 10/16/08 |
| **ICP Prep** | | | | | | | | | | **10/21/08** |
| **ICP-AES** | | | | | | | | | | |
| Antimony | 7440-36-0 | LA-505-411 | U | <60 | | ug/L | 1 | 60 | 280 | 10/21/08 |
| Barium | 7440-39-3 | LA-505-411 | | 80.7 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Beryllium | 7440-41-7 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Cadmium | 7440-43-9 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

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C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD sample recovery outside control limits.

M - Duplicate precision criteria not met.
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013018
**SAF#** W09-010
**Sample ID** B1XF51

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Calcium | 7440-70-2 | LA-505-411 | | 1.12E5 | | ug/L | 1 | 70 | 360 | 10/21/08 |
| Chromium | 7440-47-3 | LA-505-411 | B | 11.9 | | ug/L | 1 | 10 | 20 | 10/21/08 |
| Cobalt | 7440-48-4 | LA-505-411 | U | <5 | | ug/L | 1 | 5 | 25 | 10/21/08 |
| Copper | 7440-50-8 | LA-505-411 | U | <6 | | ug/L | 1 | 6 | 30 | 10/21/08 |
| Iron | 7439-89-6 | LA-505-411 | B | 78.1 | | ug/L | 1 | 20 | 120 | 10/21/08 |
| Magnesium | 7439-95-4 | LA-505-411 | | 21900 | | ug/L | 1 | 50 | 250 | 10/21/08 |
| Manganese | 7439-96-5 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Nickel | 7440-02-0 | LA-505-411 | B | 11.2 | | ug/L | 1 | 6 | 30 | 10/21/08 |
| Potassium | 7440-09-7 | LA-505-411 | | 8990 | | ug/L | 1 | 200 | 850 | 10/21/08 |
| Silver | 7440-22-4 | LA-505-411 | U | <5 | | ug/L | 1 | 5 | 25 | 10/21/08 |
| Sodium | 7440-23-5 | LA-505-411 | | 21200 | | ug/L | 1 | 50 | 260 | 10/21/08 |
| Strontium | 7440-24-6 | LA-505-411 | | 620 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Vanadium | 7440-62-2 | LA-505-411 | U | <10 | | ug/L | 1 | 10 | 60 | 10/21/08 |
| Zinc | 7440-66-6 | LA-505-411 | U | <9 | | ug/L | 1 | 9 | 45 | 10/21/08 |
| **ICPMS Prep** | | | | | | | | | | **10/28/08** |
| **ICP-MS** | | | | | | | | | | |
| Arsenic | 7440-38-2 | LA-505-412 | B | 1.66 | | ug/L | 1 | 0.4 | 4.0 | 10/29/08 |

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
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U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013019
**SAF#** W09-010
**Sample ID** B1XF59

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| **Anions by IC** | | | | | | | | | | **10/14/08** |
| **Anions by IC** | | | | | | | | | | |
| Chloride | 16887-00-6 | LA-533-410 | DN | 6.08 | | ug/mL | 2 | 0.09 | 0.80 | 10/14/08 |
| Fluoride | 16984-48-8 | LA-533-410 | BD | 0.126 | | ug/mL | 2 | 0.05 | 0.40 | 10/14/08 |
| Nitrate-N | NO3-N | LA-533-410 | DN | 2.83 | | ug/mL | 2 | 0.02 | 0.20 | 10/14/08 |
| Nitrite-N | NO2-N | LA-533-410 | UD | <0.03 | | ug/mL | 2 | 0.03 | 0.20 | 10/14/08 |
| Sulfate | 14808-79-8 | LA-533-410 | D | 44.5 | | ug/mL | 2 | 0.3 | 2.0 | 10/14/08 |
| **COD** | | | | | | | | | | **11/07/08** |
| **COD** | | | | | | | | | | |
| Chemical Oxygen Demand | COD | LA-523-470 | U1 | <10 | | mg/L | 1 | 10 | | 11/07/08 |
| **Cation by IC** | | | | | | | | | | **10/16/08** |
| **Cation by IC** | | | | | | | | | | |
| Ammonia (N) | 7664-41-7 | LA-503-401 | B | 0.00570 | | ug/mL | 1 | 4.E-3 | 0.040 | 10/16/08 |
| **ICP Prep** | | | | | | | | | | **10/21/08** |
| **ICP-AES** | | | | | | | | | | |
| Antimony | 7440-36-0 | LA-505-411 | U | <60 | | ug/L | 1 | 60 | 280 | 10/21/08 |
| Barium | 7440-39-3 | LA-505-411 | | 77.1 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Beryllium | 7440-41-7 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Cadmium | 7440-43-9 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

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X,Y or Z - See comment detail and/or narrative.

## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013019
**SAF#** W09-010
**Sample ID** B1XF59

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Calcium | 7440-70-2 | LA-505-411 | | 80900 | | ug/L | 1 | 70 | 360 | 10/21/08 |
| Chromium | 7440-47-3 | LA-505-411 | U | <10 | | ug/L | 1 | 10 | 20 | 10/21/08 |
| Cobalt | 7440-48-4 | LA-505-411 | U | <5 | | ug/L | 1 | 5 | 25 | 10/21/08 |
| Copper | 7440-50-8 | LA-505-411 | U | <6 | | ug/L | 1 | 6 | 30 | 10/21/08 |
| Iron | 7439-89-6 | LA-505-411 | B | 51.3 | | ug/L | 1 | 20 | 120 | 10/21/08 |
| Magnesium | 7439-95-4 | LA-505-411 | | 15600 | | ug/L | 1 | 50 | 250 | 10/21/08 |
| Manganese | 7439-96-5 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Nickel | 7440-02-0 | LA-505-411 | U | <6 | | ug/L | 1 | 6 | 30 | 10/21/08 |
| Potassium | 7440-09-7 | LA-505-411 | | 8180 | | ug/L | 1 | 200 | 850 | 10/21/08 |
| Silver | 7440-22-4 | LA-505-411 | U | <5 | | ug/L | 1 | 5 | 25 | 10/21/08 |
| Sodium | 7440-23-5 | LA-505-411 | | 20400 | | ug/L | 1 | 50 | 260 | 10/21/08 |
| Strontium | 7440-24-6 | LA-505-411 | | 491 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Vanadium | 7440-62-2 | LA-505-411 | U | <10 | | ug/L | 1 | 10 | 60 | 10/21/08 |
| Zinc | 7440-66-6 | LA-505-411 | U | <9 | | ug/L | 1 | 9 | 45 | 10/21/08 |
| **ICPMS Prep** | | | | | | | | | | **10/28/08** |
| **ICP-MS** | | | | | | | | | | |
| Arsenic | 7440-38-2 | LA-505-412 | B | 2.46 | | ug/L | 1 | 0.4 | 4.0 | 10/29/08 |

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL. (Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD sample recovery outside control limits.

M - Duplicate precision criteria not met.
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013020
**SAF#** W09-010
**Sample ID** B1XF61

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| **Anions by IC** | | | | | | | | | | **10/14/08** |
| **Anions by IC** | | | | | | | | | | |
| Chloride | 16887-00-6 | LA-533-410 | DN | 7.11 | | ug/mL | 2 | 0.09 | 0.80 | 10/14/08 |
| Fluoride | 16984-48-8 | LA-533-410 | BD | 0.175 | | ug/mL | 2 | 0.05 | 0.40 | 10/14/08 |
| Nitrate-N | NO3-N | LA-533-410 | DN | 3.90 | | ug/mL | 2 | 0.02 | 0.20 | 10/14/08 |
| Nitrite-N | NO2-N | LA-533-410 | UD | <0.03 | | ug/mL | 2 | 0.03 | 0.20 | 10/14/08 |
| Sulfate | 14808-79-8 | LA-533-410 | D | 39.5 | | ug/mL | 2 | 0.3 | 2.0 | 10/14/08 |
| **COD** | | | | | | | | | | **11/07/08** |
| **COD** | | | | | | | | | | |
| Chemical Oxygen Demand | COD | LA-523-470 | U1 | <10 | | mg/L | 1 | 10 | | 11/07/08 |
| **Cation by IC** | | | | | | | | | | **10/16/08** |
| **Cation by IC** | | | | | | | | | | |
| Ammonia (N) | 7664-41-7 | LA-503-401 | B | 0.00940 | | ug/mL | 1 | 4.E-3 | 0.040 | 10/16/08 |
| **ICP Prep** | | | | | | | | | | **10/21/08** |
| **ICP-AES** | | | | | | | | | | |
| Antimony | 7440-36-0 | LA-505-411 | U | <60 | | ug/L | 1 | 60 | 280 | 10/21/08 |
| Barium | 7440-39-3 | LA-505-411 | | 51.8 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Beryllium | 7440-41-7 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Cadmium | 7440-43-9 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |

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X,Y or Z - See comment detail and/or narrative.

## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013020
**SAF#** W09-010
**Sample ID** B1XF61

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Calcium | 7440-70-2 | LA-505-411 | | 67900 | | ug/L | 1 | 70 | 360 | 10/21/08 |
| Chromium | 7440-47-3 | LA-505-411 | U | <10 | | ug/L | 1 | 10 | 20 | 10/21/08 |
| Cobalt | 7440-48-4 | LA-505-411 | U | <5 | | ug/L | 1 | 5 | 25 | 10/21/08 |
| Copper | 7440-50-8 | LA-505-411 | U | <6 | | ug/L | 1 | 6 | 30 | 10/21/08 |
| Iron | 7439-89-6 | LA-505-411 | U | <20 | | ug/L | 1 | 20 | 120 | 10/21/08 |
| Magnesium | 7439-95-4 | LA-505-411 | | 15500 | | ug/L | 1 | 50 | 250 | 10/21/08 |
| Manganese | 7439-96-5 | LA-505-411 | U | <4 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Nickel | 7440-02-0 | LA-505-411 | U | <6 | | ug/L | 1 | 6 | 30 | 10/21/08 |
| Potassium | 7440-09-7 | LA-505-411 | | 7230 | | ug/L | 1 | 200 | 850 | 10/21/08 |
| Silver | 7440-22-4 | LA-505-411 | U | <5 | | ug/L | 1 | 5 | 25 | 10/21/08 |
| Sodium | 7440-23-5 | LA-505-411 | | 19500 | | ug/L | 1 | 50 | 260 | 10/21/08 |
| Strontium | 7440-24-6 | LA-505-411 | | 427 | | ug/L | 1 | 4 | 20 | 10/21/08 |
| Vanadium | 7440-62-2 | LA-505-411 | U | <10 | | ug/L | 1 | 10 | 60 | 10/21/08 |
| Zinc | 7440-66-6 | LA-505-411 | U | <9 | | ug/L | 1 | 9 | 45 | 10/21/08 |
| **ICPMS Prep** | | | | | | | | | | **11/10/08** |
| **ICP-MS** | | | | | | | | | | |
| Arsenic | 7440-38-2 | LA-505-412 | B | 2.87 | | ug/L | 1 | 0.4 | 4.0 | 11/10/08 |

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

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X,Y or Z - See comment detail and/or narrative.

## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Organic, Volatiles

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013011
**SAF#** W09-010
**Sample ID** B1XF17

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| **8260 Prep** | | | | | | | | | | **10/15/08** |
| **SW-846 8260B** | | | | | | | | | | |
| 1,1,1-Trichloroethane | 71-55-6 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1,1,2-Trichloroethane | 79-00-5 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1,1-Dichloroethane | 75-34-3 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1,1-Dichloroethene | 75-35-4 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1,2-Dichloroethane | 107-06-2 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1,4-Dichlorobenzene | 106-46-7 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1-Butanol | 71-36-3 | LA-523-455 | U | <100 | | ug/L | 1 | 100 | 500 | 10/15/08 |
| Acetone | 67-64-1 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Benzene | 71-43-2 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Carbon disulfide | 75-15-0 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Carbon tetrachloride | 56-23-5 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Chlorobenzene | 108-90-7 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Chloroform | 67-66-3 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Ethylbenzene | 100-41-4 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Methyl ethyl ketone | 78-93-3 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Methyl isobutyl ketone | 108-10-1 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Methylene chloride | 75-09-2 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |

MDL = Minimum Detection
RQ = Result Qualifier
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DF = Dilution Factor
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B - Analyte was detected in both the BLANK and SAMPLE
D - Analyte was reported at a secondary diltution factor.
E - The calibration exceeds the calibration range (GC/MS).
J - Analyte < lowest calibration but >= MDL.
N - Presumptive compound based on MS Library search.

T - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Organic, Volatiles

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013011
**SAF#** W09-010
**Sample ID** B1XF17

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Propionitrile | 107-12-0 | LA-523-455 | U | <2.0 | | ug/L | 1 | 2.0 | 10 | 10/15/08 |
| Tetrachloroethene | 127-18-4 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Tetrahydrofuran | 109-99-9 | LA-523-455 | U | <2.0 | | ug/L | 1 | 2.0 | 10 | 10/15/08 |
| Toluene | 108-88-3 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Total Xylenes | 1330-20-7 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Trichloroethene | 79-01-6 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Vinyl chloride | 75-01-4 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| cis-1,2-Dichloroethene | 156-59-2 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| trans-1,2-Dichloroethene | 156-60-5 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |

MDL = Minimum Detection
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## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Organic, Volatiles

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013012
**SAF#** W09-010
**Sample ID** B1XF25

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| **8260 Prep** | | | | | | | | | | **10/15/08** |
| **SW-846 8260B** | | | | | | | | | | |
| 1,1,1-Trichloroethane | 71-55-6 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1,1,2-Trichloroethane | 79-00-5 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1,1-Dichloroethane | 75-34-3 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1,1-Dichloroethene | 75-35-4 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1,2-Dichloroethane | 107-06-2 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1,4-Dichlorobenzene | 106-46-7 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1-Butanol | 71-36-3 | LA-523-455 | U | <100 | | ug/L | 1 | 100 | 500 | 10/15/08 |
| Acetone | 67-64-1 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Benzene | 71-43-2 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Carbon disulfide | 75-15-0 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Carbon tetrachloride | 56-23-5 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Chlorobenzene | 108-90-7 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Chloroform | 67-66-3 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Ethylbenzene | 100-41-4 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Methyl ethyl ketone | 78-93-3 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Methyl isobutyl ketone | 108-10-1 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Methylene chloride | 75-09-2 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |

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U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Organic, Volatiles

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013012
**SAF#** W09-010
**Sample ID** B1XF25

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Propionitrile | 107-12-0 | LA-523-455 | U | <2.0 | | ug/L | 1 | 2.0 | 10 | 10/15/08 |
| Tetrachloroethene | 127-18-4 | LA-523-455 | J | 2.30 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Tetrahydrofuran | 109-99-9 | LA-523-455 | U | <2.0 | | ug/L | 1 | 2.0 | 10 | 10/15/08 |
| Toluene | 108-88-3 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Total Xylenes | 1330-20-7 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Trichloroethene | 79-01-6 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Vinyl chloride | 75-01-4 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| cis-1,2-Dichloroethene | 156-59-2 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| trans-1,2-Dichloroethene | 156-60-5 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |

MDL = Minimum Detection
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## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Organic, Volatiles

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013013
**SAF#** W09-010
**Sample ID** B1XF27

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| **8260 Prep** | | | | | | | | | | **10/15/08** |
| **SW-846 8260B** | | | | | | | | | | |
| 1,1,1-Trichloroethane | 71-55-6 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1,1,2-Trichloroethane | 79-00-5 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1,1-Dichloroethane | 75-34-3 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1,1-Dichloroethene | 75-35-4 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1,2-Dichloroethane | 107-06-2 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1,4-Dichlorobenzene | 106-46-7 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1-Butanol | 71-36-3 | LA-523-455 | U | <100 | | ug/L | 1 | 100 | 500 | 10/15/08 |
| Acetone | 67-64-1 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Benzene | 71-43-2 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Carbon disulfide | 75-15-0 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Carbon tetrachloride | 56-23-5 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Chlorobenzene | 108-90-7 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Chloroform | 67-66-3 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Ethylbenzene | 100-41-4 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Methyl ethyl ketone | 78-93-3 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Methyl isobutyl ketone | 108-10-1 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Methylene chloride | 75-09-2 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |

MDL = Minimum Detection
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X,Y or Z - See comment detail and/or narrative.

## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Organic, Volatiles

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013013
**SAF#** W09-010
**Sample ID** B1XF27

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Propionitrile | 107-12-0 | LA-523-455 | U | <2.0 | | ug/L | 1 | 2.0 | 10 | 10/15/08 |
| Tetrachloroethene | 127-18-4 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Tetrahydrofuran | 109-99-9 | LA-523-455 | U | <2.0 | | ug/L | 1 | 2.0 | 10 | 10/15/08 |
| Toluene | 108-88-3 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Total Xylenes | 1330-20-7 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Trichloroethene | 79-01-6 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Vinyl chloride | 75-01-4 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| cis-1,2-Dichloroethene | 156-59-2 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| trans-1,2-Dichloroethene | 156-60-5 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte was detected in both the BLANK and SAMPLE
D - Analyte was reported at a secondary dilution factor.
E - The calibration exceeds the calibration range (GC/MS).
J - Analyte < lowest calibration but >= MDL.
N - Presumptive compound based on MS Library search.

T - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Organic, Volatiles

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013014
**SAF#** W09-010
**Sample ID** B1XF38

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| **8260 Prep** | | | | | | | | | | **10/15/08** |
| **SW-846 8260B** | | | | | | | | | | |
| 1,1,1-Trichloroethane | 71-55-6 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1,1,2-Trichloroethane | 79-00-5 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1,1-Dichloroethane | 75-34-3 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1,1-Dichloroethene | 75-35-4 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1,2-Dichloroethane | 107-06-2 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1,4-Dichlorobenzene | 106-46-7 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1-Butanol | 71-36-3 | LA-523-455 | U | <100 | | ug/L | 1 | 100 | 500 | 10/15/08 |
| Acetone | 67-64-1 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Benzene | 71-43-2 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Carbon disulfide | 75-15-0 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Carbon tetrachloride | 56-23-5 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Chlorobenzene | 108-90-7 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Chloroform | 67-66-3 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Ethylbenzene | 100-41-4 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Methyl ethyl ketone | 78-93-3 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Methyl isobutyl ketone | 108-10-1 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Methylene chloride | 75-09-2 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |

MDL = Minimum Detection
RQ = Result Qualifier
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DF = Dilution Factor
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B - Analyte was detected in both the BLANK and SAMPLE
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E - The calibration exceeds the calibration range (GC/MS).
J - Analyte < lowest calibration but >= MDL.
N - Presumptive compound based on MS Library search.

T - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Organic, Volatiles

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013014
**SAF#** W09-010
**Sample ID** B1XF38

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Propionitrile | 107-12-0 | LA-523-455 | U | <2.0 | | ug/L | 1 | 2.0 | 10 | 10/15/08 |
| Tetrachloroethene | 127-18-4 | LA-523-455 | J | 2.52 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Tetrahydrofuran | 109-99-9 | LA-523-455 | U | <2.0 | | ug/L | 1 | 2.0 | 10 | 10/15/08 |
| Toluene | 108-88-3 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Total Xylenes | 1330-20-7 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Trichloroethene | 79-01-6 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Vinyl chloride | 75-01-4 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| cis-1,2-Dichloroethene | 156-59-2 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| trans-1,2-Dichloroethene | 156-60-5 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
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B - Analyte was detected in both the BLANK and SAMPLE
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T - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Organic, Volatiles

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013015
**SAF#** W09-010
**Sample ID** B1XF40

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| **8260 Prep** | | | | | | | | | | **10/15/08** |
| **SW-846 8260B** | | | | | | | | | | |
| 1,1,1-Trichloroethane | 71-55-6 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1,1,2-Trichloroethane | 79-00-5 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1,1-Dichloroethane | 75-34-3 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1,1-Dichloroethene | 75-35-4 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1,2-Dichloroethane | 107-06-2 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1,4-Dichlorobenzene | 106-46-7 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1-Butanol | 71-36-3 | LA-523-455 | U | <100 | | ug/L | 1 | 100 | 500 | 10/15/08 |
| Acetone | 67-64-1 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Benzene | 71-43-2 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Carbon disulfide | 75-15-0 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Carbon tetrachloride | 56-23-5 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Chlorobenzene | 108-90-7 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Chloroform | 67-66-3 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Ethylbenzene | 100-41-4 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Methyl ethyl ketone | 78-93-3 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Methyl isobutyl ketone | 108-10-1 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Methylene chloride | 75-09-2 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
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D - Analyte was reported at a secondary diltution factor.
E - The calibration exceeds the calibration range (GC/MS).
J - Analyte < lowest calibration but >= MDL.
N - Presumptive compound based on MS Library search.

T - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Organic, Volatiles

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013015
**SAF#** W09-010
**Sample ID** B1XF40

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Propionitrile | 107-12-0 | LA-523-455 | U | <2.0 | | ug/L | 1 | 2.0 | 10 | 10/15/08 |
| Tetrachloroethene | 127-18-4 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Tetrahydrofuran | 109-99-9 | LA-523-455 | U | <2.0 | | ug/L | 1 | 2.0 | 10 | 10/15/08 |
| Toluene | 108-88-3 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Total Xylenes | 1330-20-7 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Trichloroethene | 79-01-6 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Vinyl chloride | 75-01-4 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| cis-1,2-Dichloroethene | 156-59-2 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| trans-1,2-Dichloroethene | 156-60-5 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |

MDL = Minimum Detection
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TP Err = Total Propagated
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X,Y or Z - See comment detail and/or narrative.

## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Organic, Volatiles

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013016
**SAF#** W09-010
**Sample ID** B1XF42

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| **8260 Prep** | | | | | | | | | | **10/15/08** |
| **SW-846 8260B** | | | | | | | | | | |
| 1,1,1-Trichloroethane | 71-55-6 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1,1,2-Trichloroethane | 79-00-5 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1,1-Dichloroethane | 75-34-3 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1,1-Dichloroethene | 75-35-4 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1,2-Dichloroethane | 107-06-2 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1,4-Dichlorobenzene | 106-46-7 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1-Butanol | 71-36-3 | LA-523-455 | U | <100 | | ug/L | 1 | 100 | 500 | 10/15/08 |
| Acetone | 67-64-1 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Benzene | 71-43-2 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Carbon disulfide | 75-15-0 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Carbon tetrachloride | 56-23-5 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Chlorobenzene | 108-90-7 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Chloroform | 67-66-3 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Ethylbenzene | 100-41-4 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Methyl ethyl ketone | 78-93-3 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Methyl isobutyl ketone | 108-10-1 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Methylene chloride | 75-09-2 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |

MDL = Minimum Detection
RQ = Result Qualifier
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DF = Dilution Factor
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B - Analyte was detected in both the BLANK and SAMPLE
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J - Analyte < lowest calibration but >= MDL.
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T - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Organic, Volatiles

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013016
**SAF#** W09-010
**Sample ID** B1XF42

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Propionitrile | 107-12-0 | LA-523-455 | U | <2.0 | | ug/L | 1 | 2.0 | 10 | 10/15/08 |
| Tetrachloroethene | 127-18-4 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Tetrahydrofuran | 109-99-9 | LA-523-455 | U | <2.0 | | ug/L | 1 | 2.0 | 10 | 10/15/08 |
| Toluene | 108-88-3 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Total Xylenes | 1330-20-7 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Trichloroethene | 79-01-6 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Vinyl chloride | 75-01-4 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| cis-1,2-Dichloroethene | 156-59-2 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| trans-1,2-Dichloroethene | 156-60-5 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |

MDL = Minimum Detection
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TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

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X,Y or Z - See comment detail and/or narrative.

## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Organic, Volatiles

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013017
**SAF#** W09-010
**Sample ID** B1XF49

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| **8260 Prep** | | | | | | | | | | **10/15/08** |
| **SW-846 8260B** | | | | | | | | | | |
| 1,1,1-Trichloroethane | 71-55-6 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1,1,2-Trichloroethane | 79-00-5 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1,1-Dichloroethane | 75-34-3 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1,1-Dichloroethene | 75-35-4 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1,2-Dichloroethane | 107-06-2 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1,4-Dichlorobenzene | 106-46-7 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1-Butanol | 71-36-3 | LA-523-455 | U | <100 | | ug/L | 1 | 100 | 500 | 10/15/08 |
| Acetone | 67-64-1 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Benzene | 71-43-2 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Carbon disulfide | 75-15-0 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Carbon tetrachloride | 56-23-5 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Chlorobenzene | 108-90-7 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Chloroform | 67-66-3 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Ethylbenzene | 100-41-4 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Methyl ethyl ketone | 78-93-3 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Methyl isobutyl ketone | 108-10-1 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Methylene chloride | 75-09-2 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |

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U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Organic, Volatiles

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013017
**SAF#** W09-010
**Sample ID** B1XF49

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Propionitrile | 107-12-0 | LA-523-455 | U | <2.0 | | ug/L | 1 | 2.0 | 10 | 10/15/08 |
| Tetrachloroethene | 127-18-4 | LA-523-455 | J | 2.43 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Tetrahydrofuran | 109-99-9 | LA-523-455 | U | <2.0 | | ug/L | 1 | 2.0 | 10 | 10/15/08 |
| Toluene | 108-88-3 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Total Xylenes | 1330-20-7 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Trichloroethene | 79-01-6 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Vinyl chloride | 75-01-4 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| cis-1,2-Dichloroethene | 156-59-2 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| trans-1,2-Dichloroethene | 156-60-5 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte was detected in both the BLANK and SAMPLE
D - Analyte was reported at a secondary diltution factor.
E - The calibration exceeds the calibration range (GC/MS).
J - Analyte < lowest calibration but >= MDL.
N - Presumptive compound based on MS Library search.

T - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Organic, Volatiles

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013018
**SAF#** W09-010
**Sample ID** B1XF51

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| **8260 Prep** | | | | | | | | | | **10/15/08** |
| **SW-846 8260B** | | | | | | | | | | |
| 1,1,1-Trichloroethane | 71-55-6 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1,1,2-Trichloroethane | 79-00-5 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1,1-Dichloroethane | 75-34-3 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1,1-Dichloroethene | 75-35-4 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1,2-Dichloroethane | 107-06-2 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1,4-Dichlorobenzene | 106-46-7 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1-Butanol | 71-36-3 | LA-523-455 | U | <100 | | ug/L | 1 | 100 | 500 | 10/15/08 |
| Acetone | 67-64-1 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Benzene | 71-43-2 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Carbon disulfide | 75-15-0 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Carbon tetrachloride | 56-23-5 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Chlorobenzene | 108-90-7 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Chloroform | 67-66-3 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Ethylbenzene | 100-41-4 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Methyl ethyl ketone | 78-93-3 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Methyl isobutyl ketone | 108-10-1 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Methylene chloride | 75-09-2 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte was detected in both the BLANK and SAMPLE
D - Analyte was reported at a secondary diltution factor.
E - The calibration exceeds the calibration range (GC/MS).
J - Analyte < lowest calibration but >= MDL.
N - Presumptive compound based on MS Library search.

T - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Organic, Volatiles

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013018
**SAF#** W09-010
**Sample ID** B1XF51

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Propionitrile | 107-12-0 | LA-523-455 | U | <2.0 | | ug/L | 1 | 2.0 | 10 | 10/15/08 |
| Tetrachloroethene | 127-18-4 | LA-523-455 | J | 2.34 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Tetrahydrofuran | 109-99-9 | LA-523-455 | U | <2.0 | | ug/L | 1 | 2.0 | 10 | 10/15/08 |
| Toluene | 108-88-3 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Total Xylenes | 1330-20-7 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Trichloroethene | 79-01-6 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Vinyl chloride | 75-01-4 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| cis-1,2-Dichloroethene | 156-59-2 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| trans-1,2-Dichloroethene | 156-60-5 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte was detected in both the BLANK and SAMPLE
D - Analyte was reported at a secondary diltution factor.
E - The calibration exceeds the calibration range (GC/MS).
J - Analyte < lowest calibration but >= MDL.
N - Presumptive compound based on MS Library search.

T - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Organic, Volatiles

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013019
**SAF#** W09-010
**Sample ID** B1XF59

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| **8260 Prep** | | | | | | | | | | **10/15/08** |
| **SW-846 8260B** | | | | | | | | | | |
| 1,1,1-Trichloroethane | 71-55-6 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1,1,2-Trichloroethane | 79-00-5 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1,1-Dichloroethane | 75-34-3 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1,1-Dichloroethene | 75-35-4 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1,2-Dichloroethane | 107-06-2 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1,4-Dichlorobenzene | 106-46-7 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1-Butanol | 71-36-3 | LA-523-455 | U | <100 | | ug/L | 1 | 100 | 500 | 10/15/08 |
| Acetone | 67-64-1 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Benzene | 71-43-2 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Carbon disulfide | 75-15-0 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Carbon tetrachloride | 56-23-5 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Chlorobenzene | 108-90-7 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Chloroform | 67-66-3 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Ethylbenzene | 100-41-4 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Methyl ethyl ketone | 78-93-3 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Methyl isobutyl ketone | 108-10-1 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Methylene chloride | 75-09-2 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte was detected in both the BLANK and SAMPLE
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E - The calibration exceeds the calibration range (GC/MS).
J - Analyte < lowest calibration but >= MDL.
N - Presumptive compound based on MS Library search.

T - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Organic, Volatiles

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013019
**SAF#** W09-010
**Sample ID** B1XF59

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Propionitrile | 107-12-0 | LA-523-455 | U | <2.0 | | ug/L | 1 | 2.0 | 10 | 10/15/08 |
| Tetrachloroethene | 127-18-4 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Tetrahydrofuran | 109-99-9 | LA-523-455 | U | <2.0 | | ug/L | 1 | 2.0 | 10 | 10/15/08 |
| Toluene | 108-88-3 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Total Xylenes | 1330-20-7 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Trichloroethene | 79-01-6 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Vinyl chloride | 75-01-4 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| cis-1,2-Dichloroethene | 156-59-2 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| trans-1,2-Dichloroethene | 156-60-5 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |

MDL = Minimum Detection
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TP Err = Total Propagated
DF = Dilution Factor
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B - Analyte was detected in both the BLANK and SAMPLE
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X,Y or Z - See comment detail and/or narrative.

## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Organic, Volatiles

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013020
**SAF#** W09-010
**Sample ID** B1XF61

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| **8260 Prep** | | | | | | | | | | **10/15/08** |
| **SW-846 8260B** | | | | | | | | | | |
| 1,1,1-Trichloroethane | 71-55-6 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1,1,2-Trichloroethane | 79-00-5 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1,1-Dichloroethane | 75-34-3 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1,1-Dichloroethene | 75-35-4 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1,2-Dichloroethane | 107-06-2 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1,4-Dichlorobenzene | 106-46-7 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| 1-Butanol | 71-36-3 | LA-523-455 | U | <100 | | ug/L | 1 | 100 | 500 | 10/15/08 |
| Acetone | 67-64-1 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Benzene | 71-43-2 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Carbon disulfide | 75-15-0 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Carbon tetrachloride | 56-23-5 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Chlorobenzene | 108-90-7 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Chloroform | 67-66-3 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Ethylbenzene | 100-41-4 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Methyl ethyl ketone | 78-93-3 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Methyl isobutyl ketone | 108-10-1 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Methylene chloride | 75-09-2 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |

MDL = Minimum Detection
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DF = Dilution Factor
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B - Analyte was detected in both the BLANK and SAMPLE
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U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

## WSCF Analytical Results Report

**Attention** Michael Neely
**Department** Organic, Volatiles

**Group #** WSCF80013
**Project Number** W09-010

**Sample #** 80013020
**SAF#** W09-010
**Sample ID** B1XF61

**Matrix** WATER
**Sampled** 10/13/08
**Received** 10/13/08

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Propionitrile | 107-12-0 | LA-523-455 | U | <2.0 | | ug/L | 1 | 2.0 | 10 | 10/15/08 |
| Tetrachloroethene | 127-18-4 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Tetrahydrofuran | 109-99-9 | LA-523-455 | U | <2.0 | | ug/L | 1 | 2.0 | 10 | 10/15/08 |
| Toluene | 108-88-3 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Total Xylenes | 1330-20-7 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Trichloroethene | 79-01-6 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| Vinyl chloride | 75-01-4 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| cis-1,2-Dichloroethene | 156-59-2 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |
| trans-1,2-Dichloroethene | 156-60-5 | LA-523-455 | U | <1.0 | | ug/L | 1 | 1.0 | 5.0 | 10/15/08 |

MDL = Minimum Detection
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TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte was detected in both the BLANK and SAMPLE
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T - MS and/or MSD sample recovery outside control limits.
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X,Y or Z - See comment detail and/or narrative.

## Quality Control Report

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

**QC Batch** 4506 **Test** Chemical Oxygen Demand
**Associated Samples** 80013011, 80013012, 80013013, 80013014, 80013015, 80013016, 80013017, 80013018

| Analyte | CAS # | Original Found | QC Found | Units | % Recov | Limits | RPD | RPD Limit | RQ | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| **MS** | | | **QC Sample #1200** | | | | | | | |
| | | | **Original 80013011** | | | | | | | |
| Chemical Oxygen | COD | -2 | 251 | mg/L | 101 | 75 - 125 | | | | 10/15/08 |
| **MSD** | | | **QC Sample #1201** | | | | | | | |
| | | | **Original 80013011** | | | | | **Paired** | **1200** | |
| Chemical Oxygen | COD | -2 | 258 | mg/L | 104 | 75 - 125 | 2.93 | 0 - 20 | | 10/15/08 |
| **BLANK** | | | **QC Sample #1204** | | | | | | | |
| Chemical Oxygen | COD | | <10 | mg/L | | | | | U | 10/15/08 |
| **LCS** | | | **QC Sample #1205** | | | | | | | |
| Chemical Oxygen | COD | | 90.0 | mg/L | 90 | 80 - 120 | | | | 10/15/08 |

## Quality Control Report

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

**QC Batch** 4806 **Test** Anions by Ion Chromatography (Water)
**Associated Samples** 80013011, 80013012, 80013013, 80013014, 80013015, 80013016, 80013017, 80013018, 80013019, 80013020

| Analyte | CAS # | Original Found | QC Found | Units | % Recov | Limits | RPD | RPD Limit | | RQ | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **DUP** | | | **QC Sample #1223** | | | | | | | | |
| | | | **Original 80013011** | | | | | | | | |
| Fluoride | 16984-48-8 | 0 | <0.046 | ug/mL | | | 0.00 | 20 | | UD | 10/14/08 |
| Chloride | 16887-00-6 | 6.64 | 6.70 | ug/mL | | | 0.90 | 20 | | D | 10/14/08 |
| Nitrite-N | NO2-N | 0 | <0.026 | ug/mL | | | 0.00 | 20 | | UD | 10/14/08 |
| Nitrate-N | NO3-N | 3.99 | 4.00 | ug/mL | | | 0.25 | 20 | | D | 10/14/08 |
| Sulfate | 14808-79-8 | 43.6 | 43.5 | ug/mL | | | 0.23 | 20 | | D | 10/14/08 |
| **MS** | | | **QC Sample #1224** | | | | | | | | |
| | | | **Original 80013011** | | | | | | | | |
| Fluoride | 16984-48-8 | 0 | 0.951 | ug/mL | 93.3 | 80 - 120 | | | | D | 10/14/08 |
| Chloride | 16887-00-6 | 6.64 | 8.78 | ug/mL | 108 | 80 - 120 | | | | D | 10/14/08 |
| Nitrite-N | NO2-N | 0 | 0.851 | ug/mL | 85.2 | 80 - 120 | | | | D | 10/14/08 |
| Nitrate-N | NO3-N | 3.99 | 4.82 | ug/mL | 92.4 | 80 - 120 | | | | D | 10/14/08 |
| Sulfate | 14808-79-8 | 43.6 | 47.2 | ug/mL | 91.1 | 80 - 120 | | | | D | 10/14/08 |
| **MSD** | | | **QC Sample #1225** | | | | | | | | |
| | | | **Original 80013011** | | | | | **Paired** | | **1224** | |
| Fluoride | 16984-48-8 | 0 | 0.975 | ug/mL | 95.6 | 80 - 120 | 2.44 | 20 | | D | 10/14/08 |
| Chloride | 16887-00-6 | 6.64 | 8.13 | ug/mL | 74.9 | 80 - 120 | 36.20 | 20 | * | DN1 | 10/14/08 |
| Nitrite-N | NO2-N | 0 | 0.804 | ug/mL | 80.5 | 80 - 120 | 5.67 | 20 | | D | 10/14/08 |
| Nitrate-N | NO3-N | 3.99 | 4.58 | ug/mL | 65.4 | 80 - 120 | 34.20 | 20 | * | DN1 | 10/14/08 |
| Sulfate | 14808-79-8 | 43.6 | 47.1 | ug/mL | 87.7 | 80 - 120 | 3.80 | 20 | | D | 10/14/08 |
| **LCS** | | | **QC Sample #1294** | | | | | | | | |

## Quality Control Report

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

| Analyte | CAS # | Original Found | QC Found | Units | % Recov | Limits | RPD | RPD Limit | RQ | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | 16984-48-8 | | 0.929 | ug/mL | 91.1 | 90 - 110 | | | | 10/14/08 |
| Chloride | 16887-00-6 | | 1.92 | ug/mL | 96.4 | 90 - 110 | | | | 10/14/08 |
| Nitrite-N | NO2-N | | 0.960 | ug/mL | 96.1 | 90 - 110 | | | | 10/14/08 |
| Nitrate-N | NO3-N | | 0.898 | ug/mL | 99.9 | 90 - 110 | | | | 10/14/08 |
| Sulfate | 14808-79-8 | | 3.85 | ug/mL | 96.3 | 90 - 110 | | | | 10/14/08 |
| **BLANK** | | | **QC Sample #1296** | | | | | | | |
| Fluoride | 16984-48-8 | | <0.023 | ug/mL | | | | | U | 10/14/08 |
| Chloride | 16887-00-6 | | <0.047 | ug/mL | | | | | U | 10/14/08 |
| Nitrite-N | NO2-N | | <0.013 | ug/mL | | | | | U | 10/14/08 |
| Nitrate-N | NO3-N | | <0.012 | ug/mL | | | | | U | 10/14/08 |
| Sulfate | 14808-79-8 | | <0.13 | ug/mL | | | | | U | 10/14/08 |
| **BLANK** | | | **QC Sample #1297** | | | | | | | |
| Fluoride | 16984-48-8 | | <0.023 | ug/mL | | | | | U | 10/14/08 |
| Chloride | 16887-00-6 | | <0.047 | ug/mL | | | | | U | 10/14/08 |
| Nitrite-N | NO2-N | | <0.013 | ug/mL | | | | | U | 10/14/08 |
| Nitrate-N | NO3-N | | <0.012 | ug/mL | | | | | U | 10/14/08 |
| Sulfate | 14808-79-8 | | <0.13 | ug/mL | | | | | U | 10/14/08 |

## Quality Control Report

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

**QC Batch** 5407 **Test** Ammonia(N) by IC (W)
**Associated Samples** 80013011, 80013012, 80013013, 80013014, 80013015, 80013016, 80013017, 80013018, 80013019, 80013020

| Analyte | CAS # | Original Found | QC Found | Units | % Recov | Limits | RPD | RPD Limit | | RQ | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **LCS** | | | **QC Sample #1309** | | | | | | | | |
| Ammonia (N) | 7664-41-7 | | 0.196 | ug/mL | 98.1 | 90 - 110 | | | | | 10/16/08 |
| **DUP** | | | **QC Sample #1310** | | | | | | | | |
| | | | **Original 80013011** | | | | | | | | |
| Ammonia (N) | 7664-41-7 | 0 | <0.0040 | ug/mL | | | 0.00 | 20 | | U | 10/16/08 |
| **MS** | | | **QC Sample #1311** | | | | | | | | |
| | | | **Original 80013011** | | | | | | | | |
| Ammonia (N) | 7664-41-7 | 0 | 0.522 | ug/mL | 104 | 80 - 120 | | | | | 10/16/08 |
| **MSD** | | | **QC Sample #1312** | | | | | | | | |
| | | | **Original 80013011** | | | | | | **Paired** | **1311** | |
| Ammonia (N) | 7664-41-7 | 0 | 0.526 | ug/mL | 105 | 80 - 120 | 0.96 | 20 | | | 10/16/08 |
| **BLANK** | | | **QC Sample #1435** | | | | | | | | |
| Ammonia (N) | 7664-41-7 | | <0.0040 | ug/mL | | | | | | U | 10/16/08 |
| **BLANK** | | | **QC Sample #1436** | | | | | | | | |
| Ammonia (N) | 7664-41-7 | | <0.0040 | ug/mL | | | | | | U | 10/16/08 |

## Quality Control Report

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

**QC Batch** 5513 **Test** ICP-6010 - All possible metals
**Associated Samples** 80013001, 80013002, 80013003, 80013004, 80013005, 80013006, 80013007, 80013008, 80013009, 80013010, 80013011, 80013012, 80013013, 80013014, 80013015, 80013016, 80013017, 80013018, 80013019, 80013020

| Analyte | CAS # | Original Found | QC Found | Units | % Recov | Limits | RPD | RPD Limit | RQ | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| **BLANK** | | | **QC Sample #1336** | | | | | | | |
| Iron | 7439-89-6 | | <25 | ug/L | | | | | U | 10/21/08 |
| Magnesium | 7439-95-4 | | <50 | ug/L | | | | | U | 10/21/08 |
| Manganese | 7439-96-5 | | <4.0 | ug/L | | | | | U | 10/21/08 |
| Nickel | 7440-02-0 | | <6.0 | ug/L | | | | | U | 10/21/08 |
| Potassium | 7440-09-7 | | <170 | ug/L | | | | | U | 10/21/08 |
| Silver | 7440-22-4 | | 14.2 | ug/L | | | | | B | 10/21/08 |
| Sodium | 7440-23-5 | | <51 | ug/L | | | | | U | 10/21/08 |
| Antimony | 7440-36-0 | | <56 | ug/L | | | | | U | 10/21/08 |
| Barium | 7440-39-3 | | <4.0 | ug/L | | | | | U | 10/21/08 |
| Cadmium | 7440-43-9 | | <4.0 | ug/L | | | | | U | 10/21/08 |
| Chromium | 7440-47-3 | | <13 | ug/L | | | | | U | 10/21/08 |
| Cobalt | 7440-48-4 | | <5.0 | ug/L | | | | | U | 10/21/08 |
| Copper | 7440-50-8 | | <6.0 | ug/L | | | | | U | 10/21/08 |
| Vanadium | 7440-62-2 | | <12 | ug/L | | | | | U | 10/21/08 |
| Zinc | 7440-66-6 | | <9.0 | ug/L | | | | | U | 10/21/08 |
| Calcium | 7440-70-2 | | <73 | ug/L | | | | | U | 10/21/08 |
| Strontium | 7440-24-6 | | <4.0 | ug/L | | | | | U | 10/21/08 |
| Beryllium | 7440-41-7 | | <4.0 | ug/L | | | | | U | 10/21/08 |
| **LCS** | | | **QC Sample #1337** | | | | | | | |
| Iron | 7439-89-6 | | 992 | ug/L | 99.2 | 80 - 120 | | | | 10/21/08 |

## Quality Control Report

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

| Analyte | CAS # | Original Found | QC Found | Units | % Recov | Limits | RPD | RPD Limit | RQ | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Magnesium | 7439-95-4 | | 965 | ug/L | 96.5 | 80 - 120 | | | | 10/21/08 |
| Manganese | 7439-96-5 | | 1010 | ug/L | 101 | 80 - 120 | | | | 10/21/08 |
| Nickel | 7440-02-0 | | 1010 | ug/L | 101 | 80 - 120 | | | | 10/21/08 |
| Potassium | 7440-09-7 | | 10300 | ug/L | 103 | 80 - 120 | | | | 10/21/08 |
| Silver | 7440-22-4 | | 982 | ug/L | 98.2 | 80 - 120 | | | | 10/21/08 |
| Sodium | 7440-23-5 | | 982 | ug/L | 98.2 | 80 - 120 | | | | 10/21/08 |
| Antimony | 7440-36-0 | | 952 | ug/L | 95.2 | 80 - 120 | | | | 10/21/08 |
| Barium | 7440-39-3 | | 484 | ug/L | 96.8 | 80 - 120 | | | | 10/21/08 |
| Cadmium | 7440-43-9 | | 980 | ug/L | 98 | 80 - 120 | | | | 10/21/08 |
| Chromium | 7440-47-3 | | 992 | ug/L | 99.2 | 80 - 120 | | | | 10/21/08 |
| Cobalt | 7440-48-4 | | 1010 | ug/L | 101 | 80 - 120 | | | | 10/21/08 |
| Copper | 7440-50-8 | | 997 | ug/L | 99.7 | 80 - 120 | | | | 10/21/08 |
| Vanadium | 7440-62-2 | | 999 | ug/L | 99.9 | 80 - 120 | | | | 10/21/08 |
| Zinc | 7440-66-6 | | 987 | ug/L | 98.7 | 80 - 120 | | | | 10/21/08 |
| Calcium | 7440-70-2 | | 930 | ug/L | 93 | 80 - 120 | | | | 10/21/08 |
| Strontium | 7440-24-6 | | 517 | ug/L | 103 | 80 - 120 | | | | 10/21/08 |
| Beryllium | 7440-41-7 | | 536 | ug/L | 107 | 80 - 120 | | | | 10/21/08 |
| **MS** | | | **QC Sample #1338** | | | | | | | |
| | | | **Original 80013001** | | | | | **Paired** | **1339** | |
| Iron | 7439-89-6 | 16.5 | 970 | ug/L | 97 | 75 - 125 | | | | 10/21/08 |
| Magnesium | 7439-95-4 | 24600 | 25900 | ug/L | 137 | 75 - 125 | | | | 10/21/08 |
| Manganese | 7439-96-5 | 1 | 995 | ug/L | 99.5 | 75 - 125 | | | | 10/21/08 |
| Nickel | 7440-02-0 | 1.2 | 955 | ug/L | 95.5 | 75 - 125 | | | | 10/21/08 |
| Potassium | 7440-09-7 | 10400 | 20900 | ug/L | 105 | 75 - 125 | | | | 10/21/08 |
| Silver | 7440-22-4 | 3.1 | 773 | ug/L | 77.3 | 75 - 125 | | | | 10/21/08 |
| Sodium | 7440-23-5 | 20900 | 22600 | ug/L | 173 | 75 - 125 | | | | 10/21/08 |
| Antimony | 7440-36-0 | 17.3 | 969 | ug/L | 96.9 | 75 - 125 | | | | 10/21/08 |
| Barium | 7440-39-3 | 142 | 628 | ug/L | 97.2 | 75 - 125 | | | | 10/21/08 |

## Quality Control Report

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

| Analyte | CAS # | Original Found | QC Found | Units | % Recov | Limits | RPD | RPD Limit | RQ | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Cadmium | 7440-43-9 | .9 | 994 | ug/L | 99.4 | 75 - 125 | | | | 10/21/08 |
| Chromium | 7440-47-3 | .1 | 970 | ug/L | 97 | 75 - 125 | | | | 10/21/08 |
| Cobalt | 7440-48-4 | .7 | 976 | ug/L | 97.6 | 75 - 125 | | | | 10/21/08 |
| Copper | 7440-50-8 | 2.9 | 959 | ug/L | 95.9 | 75 - 125 | | | | 10/21/08 |
| Vanadium | 7440-62-2 | 10.1 | 976 | ug/L | 97.6 | 75 - 125 | | | | 10/21/08 |
| Zinc | 7440-66-6 | -2.9 | 988 | ug/L | 98.8 | 75 - 125 | | | | 10/21/08 |
| Calcium | 7440-70-2 | 126000 | 1.24E5 | ug/L | -170 | 75 - 125 | | | | 10/21/08 |
| Strontium | 7440-24-6 | 788 | 1310 | ug/L | 104 | 75 - 125 | | | | 10/21/08 |
| Beryllium | 7440-41-7 | .7 | 514 | ug/L | 103 | 75 - 125 | | | | 10/21/08 |
| **MSD** | | | **QC Sample #1339** | | | | | | | |
| | | | **Original 80013001** | | | | | **Paired** | **1338** | |
| Iron | 7439-89-6 | 16.5 | 981 | ug/L | 98.1 | 75 - 125 | 1.13 | 20 | | 10/21/08 |
| Magnesium | 7439-95-4 | 24600 | 25200 | ug/L | 65 | 75 - 125 | 71.30 | 20 | * | 10/21/08 |
| Manganese | 7439-96-5 | 1 | 998 | ug/L | 99.8 | 75 - 125 | 0.30 | 20 | | 10/21/08 |
| Nickel | 7440-02-0 | 1.2 | 953 | ug/L | 95.3 | 75 - 125 | 0.21 | 20 | | 10/21/08 |
| Potassium | 7440-09-7 | 10400 | 20200 | ug/L | 98 | 75 - 125 | 6.90 | 20 | | 10/21/08 |
| Silver | 7440-22-4 | 3.1 | 969 | ug/L | 96.9 | 75 - 125 | 22.50 | 20 | * | 10/21/08 |
| Sodium | 7440-23-5 | 20900 | 21700 | ug/L | 80 | 75 - 125 | 73.50 | 20 | * | 10/21/08 |
| Antimony | 7440-36-0 | 17.3 | 935 | ug/L | 93.5 | 75 - 125 | 3.57 | 20 | | 10/21/08 |
| Barium | 7440-39-3 | 142 | 626 | ug/L | 96.8 | 75 - 125 | 0.41 | 20 | | 10/21/08 |
| Cadmium | 7440-43-9 | .9 | 994 | ug/L | 99.4 | 75 - 125 | 0.00 | 20 | | 10/21/08 |
| Chromium | 7440-47-3 | .1 | 967 | ug/L | 96.7 | 75 - 125 | 0.31 | 20 | | 10/21/08 |
| Cobalt | 7440-48-4 | .7 | 976 | ug/L | 97.6 | 75 - 125 | 0.00 | 20 | | 10/21/08 |
| Copper | 7440-50-8 | 2.9 | 950 | ug/L | 95 | 75 - 125 | 0.94 | 20 | | 10/21/08 |
| Vanadium | 7440-62-2 | 10.1 | 968 | ug/L | 96.8 | 75 - 125 | 0.82 | 20 | | 10/21/08 |
| Zinc | 7440-66-6 | -2.9 | 982 | ug/L | 98.2 | 75 - 125 | 0.61 | 20 | | 10/21/08 |
| Calcium | 7440-70-2 | 126000 | 1.24E5 | ug/L | -190 | 75 - 125 | -11.10 | 20 | | 10/21/08 |
| Strontium | 7440-24-6 | 788 | 1300 | ug/L | 102 | 75 - 125 | 1.94 | 20 | | 10/21/08 |

## Quality Control Report

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

| Analyte | CAS # | Original Found | QC Found | Units | % Recov | Limits | RPD | RPD Limit | RQ | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Beryllium | 7440-41-7 | .7 | 516 | ug/L | 103 | 75 - 125 | 0.00 | 20 | | 10/21/08 |

## Quality Control Report

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

**QC Batch** 5716
**Associated Samples** 80013001, 80013010

**Test** ICP-2008 MS All possible metal

| Analyte | CAS # | Original Found | QC Found | Units | % Recov | Limits | RPD | RPD Limit | RQ | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| **BLANK** | | | **QC Sample #1633** | | | | | | | |
| Arsenic | 7440-38-2 | | <0.40 | ug/L | | | | | U | 10/29/08 |
| **LCS** | | | **QC Sample #1634** | | | | | | | |
| Arsenic | 7440-38-2 | | 41.0 | ug/L | 102 | 85 - 115 | | | | 10/29/08 |
| **MS** | | | **QC Sample #1635** | | | | | | | |
| | | | **Original 80013001** | | | | | | | |
| Arsenic | 7440-38-2 | 1.73 | 42.8 | ug/L | 103 | 70 - 130 | | | | 10/29/08 |
| **MSD** | | | **QC Sample #1636** | | | | | | | |
| | | | **Original 80013001** | | | | | **Paired** | **1635** | |
| Arsenic | 7440-38-2 | 1.73 | 42.2 | ug/L | 101 | 70 - 130 | 1.96 | 20 | | 10/29/08 |

## Quality Control Report

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

**QC Batch** 5723
**Associated Samples** 80013004

**Test** ICP-2008 MS All possible metal

| Analyte | CAS # | Original Found | QC Found | Units | % Recov | Limits | RPD | RPD Limit | RQ | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| **BLANK** | | | **QC Sample #1647** | | | | | | | |
| Arsenic | 7440-38-2 | | <0.40 | ug/L | | | | | U | 10/29/08 |
| **LCS** | | | **QC Sample #1648** | | | | | | | |
| Arsenic | 7440-38-2 | | 40.4 | ug/L | 101 | 85 - 115 | | | | 10/29/08 |
| **MS** | | | **QC Sample #1649** | | | | | | | |
| | | | **Original 80005010** | | | | | | | |
| Arsenic | 7440-38-2 | | 48.7 | ug/L | 105 | 70 - 130 | | | | 10/29/08 |
| **MSD** | | | **QC Sample #1650** | | | | | | | |
| | | | **Original 80005010** | | | | | **Paired** | **1649** | |
| Arsenic | 7440-38-2 | | 49.0 | ug/L | 106 | 70 - 130 | 0.95 | 20 | | 10/29/08 |

## Quality Control Report

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

**QC Batch** 5794
**Associated Samples** 80013007, 80013009, 80013017

**Test** ICP-2008 MS All possible metal

| Analyte | CAS # | Original Found | QC Found | Units | % Recov | Limits | RPD | RPD Limit | RQ | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| **BLANK** | | | **QC Sample #1867** | | | | | | | |
| Arsenic | 7440-38-2 | | <0.40 | ug/L | | | | | U | 10/29/08 |
| **LCS** | | | **QC Sample #1868** | | | | | | | |
| Arsenic | 7440-38-2 | | 38.7 | ug/L | 96.7 | 85 - 115 | | | | 10/29/08 |
| **MS** | | | **QC Sample #1869** | | | | | | | |
| | | | **Original 80013017** | | | | | **Paired** | **1870** | |
| Arsenic | 7440-38-2 | 1.72 | 40.3 | ug/L | 96.5 | 70 - 130 | | | | 10/29/08 |
| **MSD** | | | **QC Sample #1870** | | | | | | | |
| | | | **Original 80013017** | | | | | **Paired** | **1869** | |
| Arsenic | 7440-38-2 | 1.72 | 40.7 | ug/L | 97.4 | 70 - 130 | 0.93 | 20 | | 10/29/08 |

## Quality Control Report

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

**QC Batch** 5805 **Test** ICP-2008 MS All possible metal
**Associated Samples** 80013003, 80013005, 80013008, 80013012, 80013013, 80013014, 80013015

| Analyte | CAS # | Original Found | QC Found | Units | % Recov | Limits | RPD | RPD Limit | RQ | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| **LCS** | | | **QC Sample #1884** | | | | | | | |
| Arsenic | 7440-38-2 | | 38.5 | ug/L | 96.2 | 85 - 115 | | | | 10/29/08 |
| **BLANK** | | | **QC Sample #1991** | | | | | | | |
| Arsenic | 7440-38-2 | | <0.40 | ug/L | | | | | U | 10/29/08 |
| **MS** | | | **QC Sample #2094** | | | | | | | |
| | | | **Original 80018028** | | | | | | | |
| Arsenic | 7440-38-2 | | 45.8 | ug/L | 93.8 | 70 - 130 | | | | 10/29/08 |
| **MSD** | | | **QC Sample #2095** | | | | | | | |
| | | | **Original 80018028** | | | | | **Paired 2094** | | |
| Arsenic | 7440-38-2 | | 46.0 | ug/L | 94.2 | 70 - 130 | 0.43 | 20 | | 10/29/08 |

## Quality Control Report

**Attention** Michael Neely
**Department** Organic, Volatiles

**Group #** WSCF80013
**Project Number** W09-010

**QC Batch** 6001 **Test** SW-846 8260B Volatiles, separate prep
**Associated Samples** 80013011, 80013012, 80013013, 80013014, 80013015, 80013016, 80013017, 80013018, 80013019, 80013020

| Analyte | CAS # | Original Found | QC Found | Units | % Recov | Limits | RPD | RPD Limit | RQ | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| **BLANK** | | | **QC Sample #2332** | | | | | | | |
| 1,1-Dichloroethene | 75-35-4 | | <1.0 | ug/L | | | | | U | 10/15/08 |
| Trichloroethene | 79-01-6 | | <1.0 | ug/L | | | | | U | 10/15/08 |
| Benzene | 71-43-2 | | <1.0 | ug/L | | | | | U | 10/15/08 |
| Toluene | 108-88-3 | | <1.0 | ug/L | | | | | U | 10/15/08 |
| Chlorobenzene | 108-90-7 | | <1.0 | ug/L | | | | | U | 10/15/08 |
| 1,1-Dichloroethane | 75-34-3 | | <1.0 | ug/L | | | | | U | 10/15/08 |
| Ethylbenzene | 100-41-4 | | <1.0 | ug/L | | | | | U | 10/15/08 |
| 1,2-Dichloroethane | 107-06-2 | | <1.0 | ug/L | | | | | U | 10/15/08 |
| Methyl isobutyl ketone | 108-10-1 | | <1.0 | ug/L | | | | | U | 10/15/08 |
| Tetrachloroethene | 127-18-4 | | <1.0 | ug/L | | | | | U | 10/15/08 |
| Total Xylenes | 1330-20-7 | | <1.0 | ug/L | | | | | U | 10/15/08 |
| Carbon tetrachloride | 56-23-5 | | <1.0 | ug/L | | | | | U | 10/15/08 |
| Acetone | 67-64-1 | | <1.0 | ug/L | | | | | U | 10/15/08 |
| Chloroform | 67-66-3 | | <1.0 | ug/L | | | | | U | 10/15/08 |
| 1,1,1-Trichloroethane | 71-55-6 | | <1.0 | ug/L | | | | | U | 10/15/08 |
| Vinyl chloride | 75-01-4 | | <1.0 | ug/L | | | | | U | 10/15/08 |
| Methylene chloride | 75-09-2 | | <1.0 | ug/L | | | | | U | 10/15/08 |
| Carbon disulfide | 75-15-0 | | <1.0 | ug/L | | | | | U | 10/15/08 |
| Methyl ethyl ketone | 78-93-3 | | <1.0 | ug/L | | | | | U | 10/15/08 |
| 1,1,2-Trichloroethane | 79-00-5 | | <1.0 | ug/L | | | | | U | 10/15/08 |
| 1-Butanol | 71-36-3 | | <100 | ug/L | | | | | U | 10/15/08 |

## Quality Control Report

**Attention** Michael Neely
**Department** Organic, Volatiles

**Group #** WSCF80013
**Project Number** W09-010

| Analyte | CAS # | Original Found | QC Found | Units | % Recov | Limits | RPD | RPD Limit | RQ | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Tetrahydrofuran | 109-99-9 | | <2.0 | ug/L | | | | | U | 10/15/08 |
| trans-1,2-Dichloroethen | 156-60-5 | | <1.0 | ug/L | | | | | U | 10/15/08 |
| cis-1,2-Dichloroethene | 156-59-2 | | <1.0 | ug/L | | | | | U | 10/15/08 |
| Propionitrile | 107-12-0 | | <2.0 | ug/L | | | | | U | 10/15/08 |
| 1,4-Dichlorobenzene | 106-46-7 | | <1.0 | ug/L | | | | | U | 10/15/08 |
| **MS** | | | **QC Sample #2333** | | | | | | | |
| | | | **Original 80013011** | | | | | | | |
| 1,1-Dichloroethene | 75-35-4 | 0 | 27.5 | ug/L | 110 | 75 - 125 | | | | 10/15/08 |
| Trichloroethene | 79-01-6 | 0 | 20.6 | ug/L | 82.3 | 75 - 125 | | | | 10/15/08 |
| Benzene | 71-43-2 | 0 | 24.9 | ug/L | 99.4 | 75 - 125 | | | | 10/15/08 |
| Toluene | 108-88-3 | 0 | 24.8 | ug/L | 99.3 | 75 - 125 | | | | 10/15/08 |
| Chlorobenzene | 108-90-7 | 0 | 25.3 | ug/L | 101 | 75 - 125 | | | | 10/15/08 |
| **MSD** | | | **QC Sample #2334** | | | | | | | |
| | | | **Original 80013011** | | | | | **Paired** | **2333** | |
| 1,1-Dichloroethene | 75-35-4 | 0 | 27.4 | ug/L | 110 | 75 - 125 | 0.00 | 20 | | 10/15/08 |
| Trichloroethene | 79-01-6 | 0 | 20.2 | ug/L | 81 | 75 - 125 | 1.59 | 20 | | 10/15/08 |
| Benzene | 71-43-2 | 0 | 24.7 | ug/L | 98.9 | 75 - 125 | 0.50 | 20 | | 10/15/08 |
| Toluene | 108-88-3 | 0 | 24.7 | ug/L | 98.6 | 75 - 125 | 0.71 | 20 | | 10/15/08 |
| Chlorobenzene | 108-90-7 | 0 | 25.1 | ug/L | 100 | 75 - 125 | 1.00 | 20 | | 10/15/08 |
| **LCS** | | | **QC Sample #2335** | | | | | | | |
| 1,1-Dichloroethene | 75-35-4 | | 24.4 | ug/L | 97.6 | 75 - 125 | | | | 10/16/08 |
| Trichloroethene | 79-01-6 | | 19.4 | ug/L | 77.7 | 75 - 125 | | | | 10/16/08 |
| Benzene | 71-43-2 | | 25.2 | ug/L | 101 | 75 - 125 | | | | 10/16/08 |
| Toluene | 108-88-3 | | 24.9 | ug/L | 99.5 | 75 - 125 | | | | 10/16/08 |
| Chlorobenzene | 108-90-7 | | 24.9 | ug/L | 99.7 | 75 - 125 | | | | 10/16/08 |

## Quality Control Report

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

**QC Batch** 6087
**Associated Samples** 80013006, 80013011, 80013020

**Test** ICP-2008 MS All possible metal

| Analyte | CAS # | Original Found | QC Found | Units | % Recov | Limits | RPD | RPD Limit | RQ | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| **BLANK** | | | **QC Sample #2361** | | | | | | | |
| Arsenic | 7440-38-2 | | <0.40 | ug/L | | | | | U | 11/10/08 |
| **LCS** | | | **QC Sample #2362** | | | | | | | |
| Arsenic | 7440-38-2 | | 38.3 | ug/L | 95.8 | 85 - 115 | | | | 11/10/08 |
| **MS** | | | **QC Sample #2363** | | | | | | | |
| | | | **Original 80005008** | | | | | | | |
| Arsenic | 7440-38-2 | | 46.2 | ug/L | 96.5 | 70 - 130 | | | | 11/10/08 |
| **MSD** | | | **QC Sample #2364** | | | | | | | |
| | | | **Original 80005008** | | | | | **Paired** | **2363** | |
| Arsenic | 7440-38-2 | | 47.2 | ug/L | 99.1 | 70 - 130 | 2.66 | 20 | | 11/10/08 |

## Quality Control Report

**Attention** Michael Neely
**Department** Inorganic

**Group #** WSCF80013
**Project Number** W09-010

**QC Batch** 11187
**Associated Samples** 80013019, 80013020

**Test** Chemical Oxygen Demand

| Analyte | CAS # | Original Found | QC Found | Units | % Recov | Limits | RPD | RPD Limit | RQ | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| **BLANK** | | | **QC Sample #2627** | | | | | | | |
| Chemical Oxygen | COD | | <10 | mg/L | | | | | U | 11/07/08 |
| **LCS** | | | **QC Sample #2628** | | | | | | | |
| Chemical Oxygen | COD | | 95.0 | mg/L | 95 | 80 - 120 | | | | 11/07/08 |
| **MS** | | | **QC Sample #2629** | | | | | | | |
| | | | **Original 80013019** | | | | | | | |
| Chemical Oxygen | COD | -12.9 | 243 | mg/L | 102 | 75 - 125 | | | | 11/07/08 |
| **MSD** | | | **QC Sample #2630** | | | | | | | |
| | | | **Original 80013019** | | | | | **Paired** | **2629** | |
| Chemical Oxygen | COD | -12.9 | 238 | mg/L | 100 | 75 - 125 | 1.98 | 0 - 20 | | 11/07/08 |

## Quality Control Report

**Attention** Michael Neely
**Department** Organic, Volatiles

**Group #** WSCF80013
**Project Number** W09-010

**QC Batch** 6001 **Test** SW-846 8260B Volatiles, separate prep
**Associated Samples** 80013011, 80013012, 80013013, 80013014, 80013015, 80013016, 80013017, 80013018, 80013019, 80013020

| Analyte | CAS # | Original Found | QC Found | Units | % Recov | Limits | RPD | RPD Limit | RQ | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| **BLANK** | | | **QC Sample #2332** | | | | | | | |
| 1,2-Dichloroethane-d4 | 17060-07-0 | | | | 112 | 75 - 125 | | | | 10/15/08 |
| Toluene-d8 | 2037-26-5 | | | | 96.5 | 75 - 125 | | | | 10/15/08 |
| 4-Bromofluorobenzene | 460-00-4 | | | | 97.8 | 75 - 125 | | | | 10/15/08 |
| **MS** | | | **QC Sample #2333** | | | | | | | |
| | | | **Original 80013011** | | | | | | | |
| 1,2-Dichloroethane-d4 | 17060-07-0 | | | | 111 | 75 - 125 | | | | 10/15/08 |
| Toluene-d8 | 2037-26-5 | | | | 95.6 | 75 - 125 | | | | 10/15/08 |
| 4-Bromofluorobenzene | 460-00-4 | | | | 96.6 | 75 - 125 | | | | 10/15/08 |
| **MSD** | | | **QC Sample #2334** | | | | | | | |
| | | | **Original 80013011** | | | | | **Paired** | **2333** | |
| 1,2-Dichloroethane-d4 | 17060-07-0 | | | | 111 | 75 - 125 | 0.00 | 20 | | 10/15/08 |
| Toluene-d8 | 2037-26-5 | | | | 95.9 | 75 - 125 | 0.31 | 20 | | 10/15/08 |
| 4-Bromofluorobenzene | 460-00-4 | | | | 96.3 | 75 - 125 | 0.31 | 20 | | 10/15/08 |
| **LCS** | | | **QC Sample #2335** | | | | | | | |
| 1,2-Dichloroethane-d4 | 17060-07-0 | | | | 113 | 75 - 125 | | | | 10/16/08 |
| Toluene-d8 | 2037-26-5 | | | | 97 | 75 - 125 | | | | 10/16/08 |
| 4-Bromofluorobenzene | 460-00-4 | | | | 96 | 75 - 125 | | | | 10/16/08 |
| **SAMPLE** | | | **Sample #80013011** | | | | | | | |
| 1,2-Dichloroethane-d4 | 17060-07-0 | | | | 113 | 75 - 125 | | | | 10/15/08 |

## Quality Control Report

**Attention** Michael Neely
**Department** Organic, Volatiles

**Group #** WSCF80013
**Project Number** W09-010

| Analyte | CAS # | Original Found | QC Found | Units | % Recov | Limits | RPD | RPD Limit | RQ | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Toluene-d8 | 2037-26-5 | | | | 97.4 | 75 - 125 | | | | 10/15/08 |
| 4-Bromofluorobenzene | 460-00-4 | | | | 97.1 | 75 - 125 | | | | 10/15/08 |
| **SAMPLE** | | | **Sample #80013012** | | | | | | | |
| 1,2-Dichloroethane-d4 | 17060-07-0 | | | | 112 | 75 - 125 | | | | 10/15/08 |
| Toluene-d8 | 2037-26-5 | | | | 97.5 | 75 - 125 | | | | 10/15/08 |
| 4-Bromofluorobenzene | 460-00-4 | | | | 97.5 | 75 - 125 | | | | 10/15/08 |
| **SAMPLE** | | | **Sample #80013013** | | | | | | | |
| 1,2-Dichloroethane-d4 | 17060-07-0 | | | | 112 | 75 - 125 | | | | 10/15/08 |
| Toluene-d8 | 2037-26-5 | | | | 97.8 | 75 - 125 | | | | 10/15/08 |
| 4-Bromofluorobenzene | 460-00-4 | | | | 96.6 | 75 - 125 | | | | 10/15/08 |
| **SAMPLE** | | | **Sample #80013014** | | | | | | | |
| 1,2-Dichloroethane-d4 | 17060-07-0 | | | | 112 | 75 - 125 | | | | 10/15/08 |
| Toluene-d8 | 2037-26-5 | | | | 97.2 | 75 - 125 | | | | 10/15/08 |
| 4-Bromofluorobenzene | 460-00-4 | | | | 96.3 | 75 - 125 | | | | 10/15/08 |
| **SAMPLE** | | | **Sample #80013015** | | | | | | | |
| 1,2-Dichloroethane-d4 | 17060-07-0 | | | | 111 | 75 - 125 | | | | 10/15/08 |
| Toluene-d8 | 2037-26-5 | | | | 97.6 | 75 - 125 | | | | 10/15/08 |
| 4-Bromofluorobenzene | 460-00-4 | | | | 95.8 | 75 - 125 | | | | 10/15/08 |
| **SAMPLE** | | | **Sample #80013016** | | | | | | | |
| 1,2-Dichloroethane-d4 | 17060-07-0 | | | | 112 | 75 - 125 | | | | 10/15/08 |
| Toluene-d8 | 2037-26-5 | | | | 97.6 | 75 - 125 | | | | 10/15/08 |
| 4-Bromofluorobenzene | 460-00-4 | | | | 96 | 75 - 125 | | | | 10/15/08 |

## Quality Control Report

**Attention** Michael Neely
**Department** Organic, Volatiles

**Group #** WSCF80013
**Project Number** W09-010

| Analyte | CAS # | Original Found | QC Found | Units | % Recov | Limits | RPD | RPD Limit | RQ | Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| **SAMPLE** | | | **Sample #80013017** | | | | | | | |
| 1,2-Dichloroethane-d4 | 17060-07-0 | | | | 112 | 75 - 125 | | | | 10/15/08 |
| Toluene-d8 | 2037-26-5 | | | | 97.4 | 75 - 125 | | | | 10/15/08 |
| 4-Bromofluorobenzene | 460-00-4 | | | | 95.9 | 75 - 125 | | | | 10/15/08 |
| **SAMPLE** | | | **Sample #80013018** | | | | | | | |
| 1,2-Dichloroethane-d4 | 17060-07-0 | | | | 113 | 75 - 125 | | | | 10/15/08 |
| Toluene-d8 | 2037-26-5 | | | | 97.4 | 75 - 125 | | | | 10/15/08 |
| 4-Bromofluorobenzene | 460-00-4 | | | | 96.1 | 75 - 125 | | | | 10/15/08 |
| **SAMPLE** | | | **Sample #80013019** | | | | | | | |
| 1,2-Dichloroethane-d4 | 17060-07-0 | | | | 112 | 75 - 125 | | | | 10/15/08 |
| Toluene-d8 | 2037-26-5 | | | | 98 | 75 - 125 | | | | 10/15/08 |
| 4-Bromofluorobenzene | 460-00-4 | | | | 95.3 | 75 - 125 | | | | 10/15/08 |
| **SAMPLE** | | | **Sample #80013020** | | | | | | | |
| 1,2-Dichloroethane-d4 | 17060-07-0 | | | | 113 | 75 - 125 | | | | 10/15/08 |
| Toluene-d8 | 2037-26-5 | | | | 97.8 | 75 - 125 | | | | 10/15/08 |
| 4-Bromofluorobenzene | 460-00-4 | | | | 95.7 | 75 - 125 | | | | 10/15/08 |

## Analytical Comment Report

**Attention** Michael Neely

**Group #** WSCF80013
**Project Number** W09-010

**80013001** **B1XF16**

ICP-AES: High Preparation Blank Result for the following

elements: silver. "C" flag if applicable.
ICP-AES: High/Check standard used to ensure linearity

due to sample results exceeding the calibration standard

for the following elements: magnesium, sodium, and calcium.
ICP-AES: The following elements sample concentraton

exceed spiking level by a factor of 4. Spike recoveries

are not valid: magnesium, sodium, and calcium.
Matrix Spike Relative Percent Difference (RPD) exceeded for silver.

**80013002** **B1XF24**

ICP-AES: High Preparation Blank Result for the following

elements: silver. "C" flag if applicable.
ICP-AES: High/Check standard used to ensure linearity

due to sample results exceeding the calibration standard

for the following elements: magnesium, sodium, and calcium.
ICP-AES: The following elements sample concentraton

exceed spiking level by a factor of 4. Spike recoveries

are not valid: magnesium, sodium, and calcium.
Matrix Spike Relative Percent Difference (RPD) exceeded for silver.

**80013003** **B1XF26**

ICP-AES: High Preparation Blank Result for the following

elements: silver. "C" flag if applicable.
ICP-AES: High/Check standard used to ensure linearity

due to sample results exceeding the calibration standard

for the following elements: magnesium, sodium, and calcium.
ICP-AES: The following elements sample concentraton

exceed spiking level by a factor of 4. Spike recoveries

are not valid: magnesium, sodium, and calcium.
Matrix Spike Relative Percent Difference (RPD) exceeded for silver.

## Analytical Comment Report

**Attention** Michael Neely

**Group #** WSCF80013
**Project Number** W09-010

| 80013004 | B1XF37 |
|---|---|

ICP-AES: High Preparation Blank Result for the following
elements: silver. "C" flag if applicable.
ICP-AES: High/Check standard used to ensure linearity
due to sample results exceeding the calibration standard
for the following elements: magnesium, sodium, and calcium.
ICP-AES: The following elements sample concentraton
exceed spiking level by a factor of 4. Spike recoveries
are not valid: magnesium, sodium, and calcium.
Matrix Spike Relative Percent Difference (RPD) exceeded for silver.

| 80013005 | B1XF39 |
|---|---|

ICP-AES: High Preparation Blank Result for the following
elements: silver. "C" flag if applicable.
ICP-AES: High/Check standard used to ensure linearity
due to sample results exceeding the calibration standard
for the following elements: magnesium, sodium, and calcium.
ICP-AES: The following elements sample concentraton
exceed spiking level by a factor of 4. Spike recoveries
are not valid: magnesium, sodium, and calcium.
Matrix Spike Relative Percent Difference (RPD) exceeded for silver.

| 80013006 | B1XF41 |
|---|---|

ICP-AES: High Preparation Blank Result for the following
elements: silver. "C" flag if applicable.
ICP-AES: High/Check standard used to ensure linearity
due to sample results exceeding the calibration standard
for the following elements: magnesium, sodium, and calcium.
ICP-AES: The following elements sample concentraton
exceed spiking level by a factor of 4. Spike recoveries
are not valid: magnesium, sodium, and calcium.
Matrix Spike Relative Percent Difference (RPD) exceeded for silver.

## Analytical Comment Report

**Attention** Michael Neely

**Group #** WSCF80013
**Project Number** W09-010

**80013007** **B1XF48**

ICP-AES: High Preparation Blank Result for the following

elements: silver.
ICP-AES: High/Check standard used to ensure linearity

due to sample results exceeding the calibration standard

for the following elements: magnesium, sodium, and calcium.
ICP-AES: The following elements sample concentraton

exceed spiking level by a factor of 4. Spike recoveries

are not valid: magnesium, sodium, and calcium.
Matrix Spike Relative Percent Difference (RPD) exceeded for silver.

**80013008** **B1XF50**

ICP-AES: High Preparation Blank Result for the following

elements: silver.
ICP-AES: High/Check standard used to ensure linearity

due to sample results exceeding the calibration standard

for the following elements: magnesium, sodium, and calcium.
ICP-AES: The following elements sample concentraton

exceed spiking level by a factor of 4. Spike recoveries

are not valid: magnesium, sodium, and calcium.
Matrix Spike Relative Percent Difference (RPD) exceeded for silver.

**80013009** **B1XF58**

ICP-AES: High Preparation Blank Result for the following

elements: silver.
ICP-AES: High/Check standard used to ensure linearity

due to sample results exceeding the calibration standard

for the following elements: magnesium, sodium, and calcium.
ICP-AES: The following elements sample concentraton

exceed spiking level by a factor of 4. Spike recoveries

are not valid: magnesium, sodium, and calcium.
Matrix Spike Relative Percent Difference (RPD) exceeded for silver.

## Analytical Comment Report

**Attention** Michael Neely

**Group #** WSCF80013
**Project Number** W09-010

**80013010** **B1XF60**

ICP-AES: High Preparation Blank Result for the following

elements: silver.
ICP-AES: High/Check standard used to ensure linearity

due to sample results exceeding the calibration standard

for the following elements: magnesium, sodium, and calcium.
ICP-AES: The following elements sample concentraton

exceed spiking level by a factor of 4. Spike recoveries

are not valid: magnesium, sodium, and calcium.
Matrix Spike Relative Percent Difference (RPD) exceeded for silver.

**80013011** **B1XF17**

ICP-AES: High Preparation Blank Result for the following

elements: silver.
ICP-AES: High/Check standard used to ensure linearity

due to sample results exceeding the calibration standard

for the following elements: magnesium, sodium, and calcium.
ICP-AES: The following elements sample concentraton

exceed spiking level by a factor of 4. Spike recoveries

are not valid: magnesium, sodium, and calcium.
Matrix Spike Relative Percent Difference (RPD) exceeded for silver.

**80013012** **B1XF25**

ICP-AES: High Preparation Blank Result for the following

elements: silver.
ICP-AES: High/Check standard used to ensure linearity

due to sample results exceeding the calibration standard

for the following elements: magnesium, sodium, and calcium.
ICP-AES: The following elements sample concentraton

exceed spiking level by a factor of 4. Spike recoveries

are not valid: magnesium, sodium, and calcium.
Matrix Spike Relative Percent Difference (RPD) exceeded for silver.

## Analytical Comment Report

**Attention** Michael Neely

**Group #** WSCF80013
**Project Number** W09-010

**80013013** **B1XF27**

ICP-AES: High Preparation Blank Result for the following
elements: silver.
ICP-AES: High/Check standard used to ensure linearity
due to sample results exceeding the calibration standard
for the following elements: magnesium, sodium, and calcium.
ICP-AES: The following elements sample concentraton
exceed spiking level by a factor of 4. Spike recoveries
are not valid: magnesium, sodium, and calcium.
Matrix Spike Relative Percent Difference (RPD) exceeded for silver.

**80013014** **B1XF38**

ICP-AES: High Preparation Blank Result for the following
elements: silver.
ICP-AES: High/Check standard used to ensure linearity
due to sample results exceeding the calibration standard
for the following elements: magnesium, sodium, and calcium.
ICP-AES: The following elements sample concentraton
exceed spiking level by a factor of 4. Spike recoveries
are not valid: magnesium, sodium, and calcium.
Matrix Spike Relative Percent Difference (RPD) exceeded for silver.

**80013015** **B1XF40**

ICP-AES: High Preparation Blank Result for the following
elements: silver.
ICP-AES: High/Check standard used to ensure linearity
due to sample results exceeding the calibration standard
for the following elements: magnesium, sodium, and calcium.
ICP-AES: The following elements sample concentraton
exceed spiking level by a factor of 4. Spike recoveries
are not valid: magnesium, sodium, and calcium.
Matrix Spike Relative Percent Difference (RPD) exceeded for silver.

## Analytical Comment Report

**Attention** Michael Neely

**Group #** WSCF80013
**Project Number** W09-010

**80013016** **B1XF42**

ICP-AES: High Preparation Blank Result for the following

elements: silver.
ICP-AES: High/Check standard used to ensure linearity

due to sample results exceeding the calibration standard

for the following elements: magnesium, sodium, and calcium.
ICP-AES: The following elements sample concentraton

exceed spiking level by a factor of 4. Spike recoveries

are not valid: magnesium, sodium, and calcium.
Matrix Spike Relative Percent Difference (RPD) exceeded for silver.

**80013017** **B1XF49**

ICP-AES: High Preparation Blank Result for the following

elements: silver.
ICP-AES: High/Check standard used to ensure linearity

due to sample results exceeding the calibration standard

for the following elements: magnesium, sodium, and calcium.
ICP-AES: The following elements sample concentraton

exceed spiking level by a factor of 4. Spike recoveries

are not valid: magnesium, sodium, and calcium.
Matrix Spike Relative Percent Difference (RPD) exceeded for silver.

**80013018** **B1XF51**

ICP-AES: High Preparation Blank Result for the following

elements: silver.
ICP-AES: High/Check standard used to ensure linearity

due to sample results exceeding the calibration standard

for the following elements: magnesium, sodium, and calcium.
ICP-AES: The following elements sample concentraton

exceed spiking level by a factor of 4. Spike recoveries

are not valid: magnesium, sodium, and calcium.
Matrix Spike Relative Percent Difference (RPD) exceeded for silver.

## Analytical Comment Report

**Attention** Michael Neely

**Group #** WSCF80013
**Project Number** W09-010

**80013019** **B1XF59**

ICP-AES: High Preparation Blank Result for the following

elements: silver.
ICP-AES: High/Check standard used to ensure linearity

due to sample results exceeding the calibration standard

for the following elements: magnesium, sodium, and calcium.
ICP-AES: The following elements sample concentraton

exceed spiking level by a factor of 4. Spike recoveries

are not valid: magnesium, sodium, and calcium.
Matrix Spike Relative Percent Difference (RPD) exceeded for silver.

**Department** Inorganic

**Analyte** Chemical Oxygen Demand - Chemical Oxygen Demand

[1] COD cal verifications 111% and 112%. Sample result not impacted.

**80013020** **B1XF61**

ICP-AES: High Preparation Blank Result for the following

elements: silver.
ICP-AES: High/Check standard used to ensure linearity

due to sample results exceeding the calibration standard

for the following elements: magnesium, sodium, and calcium.
ICP-AES: The following elements sample concentraton

exceed spiking level by a factor of 4. Spike recoveries

are not valid: magnesium, sodium, and calcium.
Matrix Spike Relative Percent Difference (RPD) exceeded for silver.

**Department** Inorganic

**Analyte** Chemical Oxygen Demand - Chemical Oxygen Demand

[1] COD Calbration verifications 111% and 112%. Sample result not impacted

## Quality Control Comments

**Department** Inorganic

1225 B1XF17(80013011MSD)

**Analyte** Chloride - Anions by Ion Chromatography (Water)

## Analytical Comment Report

**Attention** Michael Neely

**Group #** WSCF80013
**Project Number** W09-010

[1] |Duplicate precision criteria not met. No flag required. DTS

1225 B1XF17(80013011MSD)

**Analyte** Nitrate-N - Anions by Ion Chromatography (Water)
[1] Duplicate precision criteria not met. No flag required. DTS

ATTACHMENT4

# SAMPLE RECEIPT

Consisting of 13 pages
Including cover page

***Waste Sampling and Characterization Facility***
***P.O. Box 1970 S3-30, Richland WA 99352***
***Phone: (509) 373-7004/FAX: (509) 373-7134***

# ACKNOWLEDGEMENT OF SAMPLES RECEIVED

**WSCF Laboratory**
PO Box 1000 S3-30
Richland, WA 99352

ATTN: Heidi Hampt

| | |
|---|---|
| Customer Code: | PNNL-GPP |
| PO #: | 122543 |
| Work Order #: | 80013 |
| Profile #: | W09-010-315 |
| Proj. Mgr.: | |
| Phone: | |

The following samples were received from you on 10/13/2008 2:15:00 PM. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Waste Sampling and Characterization Facility.

| Sample # | Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| | | **Tests scheduled** | | |
| 80013001 | B1XF16 | WATER | 10/13/2008 09:14 | 10/13/2008 14 |
| | | 2008-W; 6010-W | | |
| 80013002 | B1XF24 | WATER | 10/13/2008 10:42 | 10/13/2008 14 |
| | | 2008-W; 6010-W | | |
| 80013003 | B1XF26 | WATER | 10/13/2008 10:05 | 10/13/2008 14 |
| | | 2008-W; 6010-W | | |
| 80013004 | B1XF37 | WATER | 10/13/2008 12:21 | 10/13/2008 14 |
| | | 2008-W; 6010-W | | |
| 80013005 | B1XF39 | WATER | 10/13/2008 11:21 | 10/13/2008 14 |
| | | 2008-W; 6010-W | | |
| 80013006 | B1XF41 | WATER | 10/13/2008 10:22 | 10/13/2008 14 |
| | | 2008-W; 6010-W | | |
| 80013007 | B1XF48 | WATER | 10/13/2008 11:34 | 10/13/2008 14 |
| | | 2008-W; 6010-W | | |
| 80013008 | B1XF50 | WATER | 10/13/2008 11:34 | 10/13/2008 14 |
| | | 2008-W; 6010-W | | |
| 80013009 | B1XF58 | WATER | 10/13/2008 13:05 | 10/13/2008 14 |
| | | 2008-W; 6010-W | | |
| 80013010 | B1XF60 | WATER | 10/13/2008 12:39 | 10/13/2008 14 |
| | | 2008-W; 6010-W | | |
| 80013011 | B1XF17 | WATER | 10/13/2008 09:14 | 10/13/2008 14 |
| | | 2008-W; 6010-W; 8260V-W; COD-W; IC-W; NH4IC-W | | |

***Waste Sampling and Characterization Facility***
***P.O. Box 1970 S3-30, Richland WA 99352***
***Phone: (509) 373-7004/FAX: (509) 373-7134***

| | | | | |
|---|---|---|---|---|
| 80013012 | B1XF25 | WATER | 10/13/2008 10:42 | 10/13/2008 14 |
| | | 2008-W; 6010-W; 8260V-W; COD-W; IC-W; NH4IC-W | | |
| 80013013 | B1XF27 | WATER | 10/13/2008 10:05 | 10/13/2008 14 |
| | | 2008-W; 6010-W; 8260V-W; COD-W; IC-W; NH4IC-W | | |
| 80013014 | B1XF38 | WATER | 10/13/2008 12:21 | 10/13/2008 14 |
| | | 2008-W; 6010-W; 8260V-W; COD-W; IC-W; NH4IC-W | | |
| 80013015 | B1XF40 | WATER | 10/13/2008 11:21 | 10/13/2008 14 |
| | | 2008-W; 6010-W; 8260V-W; COD-W; IC-W; NH4IC-W | | |
| 80013016 | B1XF42 | WATER | 10/13/2008 10:22 | 10/13/2008 14 |
| | | 2008-W; 6010-W; 8260V-W; COD-W; IC-W; NH4IC-W | | |
| 80013017 | B1XF49 | WATER | 10/13/2008 11:34 | 10/13/2008 14 |
| | | 2008-W; 6010-W; 8260V-W; COD-W; IC-W; NH4IC-W | | |
| 80013018 | B1XF51 | WATER | 10/13/2008 11:34 | 10/13/2008 14 |
| | | 2008-W; 6010-W; 8260V-W; COD-W; IC-W; NH4IC-W | | |
| 80013019 | B1XF59 | WATER | 10/13/2008 13:05 | 10/13/2008 14 |
| | | 2008-W; 6010-W; 8260V-W; COD-W; IC-W; NH4IC-W | | |
| 80013020 | B1XF61 | WATER | 10/13/2008 12:39 | 10/13/2008 14 |
| | | 2008-W; 6010-W; 8260V-W; COD-W; IC-W; NH4IC-W | | |

## Test Acronym Description

| Test Acronym | Description |
|---|---|
| 2008-W | ICP-MS (W) |
| 6010-W | ICP-AES (W) |
| 8260V-W | Volatiles by 8260B (W) |
| COD-W | Chemical Oxygen Demand (W) |
| IC-W | Anions by IC (W) |
| NH4IC-W | Ammonia(N) by IC (W) |

# Sample Receipt

| | | |
|---|---|---|
| SAF No. W09-010 | Sampling Origin Hanford Site | Purchase Order/Charge Code |
| Project Title RCRA OCTOBER 2008 | HNF-N-5060 17 | Ice Chest No. Temp. |
| Shipped To (Lab) Waste Sampling & Characterization | Method of Shipment Govt. Vehicle | Bill of Lading/Air Bill No. |
| Protocol RCRA 80013 | Priority: 45 Days | Offsite Property No. |

**POSSIBLE SAMPLE HAZARDS/REMARKS**
** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

**SPECIAL INSTRUCTIONS** Hold Time — Total Activity Exemption: Yes ☑ No ☐
FY08 and FY09 samples cannot be in the same SDG
Site-Wide Generator Knowledge Form applies.

| Sample No. | Lab ID | * | Date | Time | No/Type Container | Sample Analysis | Holding Time | Preservative |
|---|---|---|---|---|---|---|---|---|
| B1XF16 (F) | 001 | W | 10-13-08 | 0914 | 1x500-mL G/P | 6010_METALS_ICP: List-3 (18) | 6 Months | HNO3 to pH <2 |
| B1XF16 (F) | | W | | | 1x500-mL G/P | 200.8_METALS_ICPMS: Arsenic (1) | 6 Months | HNO3 to pH <2 |
| B1XF17 | 011 | W | | | 1x500-mL G/P | 6010_METALS_ICP: List-3 (18) ✓ | 6 Months | HNO3 to pH <2 |
| B1XF17 | | W | | | 1x500-mL P | 300.0_ANIONS_IC: List-1 (5) ✓ | 28 Days/48 Hours | Cool~4C |
| B1XF17 | | W | | | 4x40-mL aGs* | 8260_VOA_GCMS: List-2 (25) ✓ | 14 Days | HCl or H2SO4 to pH <2 Cool~4C |
| B1XF17 | | W | | | 1x500-mL G/P | 200.8_METALS_ICPMS: Arsenic (1) ✓ | 6 Months | HNO3 to pH <2 |
| B1XF17 | | W | | | 1x250-mL G/P | 300.7_CATIONS_IC: Ammonia (1) ✓ | 28 Days | H2SO4 to pH <2 |
| B1XF17 | | W | | | 1x500-mL G/P | 410.4_COD: COD (1) ✓ | 28 Days | H2SO4 to pH <2 Cool~4C |

ICED

| Relinquished By (Print / Sign) | Date/Time | Received By (Print / Sign) | Date/Time |
|---|---|---|---|
| Scott E. Hamaker | OCT 13 2008 1318 | D. R. Williamson | OCT 13 2008 1318 |
| D.R. Williamson | OCT 13 2008 1415 | Victor Bruns | OCT 13 2008 1415 |
| | | | |
| | | | |

Matrix *

| | | | |
|---|---|---|---|
| S = Soil | DS = Drum Solid | | |
| SE = Sediment | DL = Drum Liquid | | |
| SO = Solid | T = Tissue | | |
| SL = Sludge | WI = Wine | | |
| W = Water | L = Liquid | | |
| O = Oil | V = Vegetation | | |
| A = Air | X = Other | | |

| FINAL SAMPLE DISPOSITION | Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time |
|---|---|---|---|
| | | | |

| | | |
|---|---|---|
| SAF No. W09-010 | Sampling Origin Hanford Site | Purchase Order/Charge Code |
| Project Title RCRA, OCTOBER 2008 | AWF-W-SOIL | Ice Chest No. GWS 029 Temp. |
| Shipped To (Lab) Waste Sampling & Characterization | Method of Shipment Govt. Vehicle | Bill of Lading/Air Bill No. |
| Protocol RCRA | Priority: 45 Days | Offsite Property No. |

**POSSIBLE SAMPLE HAZARDS/REMARKS**
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

**SPECIAL INSTRUCTIONS** Hold Time — Total Activity Exemption: Yes ☑ No ☐
FY08 and FY09 samples cannot be in the same SDG.
Site-Wide Generator Knowledge Form applies.

| Sample No. | Lab ID | * | Date | Time | No/Type Container | Sample Analysis | Holding Time | Preservative |
|---|---|---|---|---|---|---|---|---|
| B1XF60 (F) | EID | W | 10/13/08 | 1239 | 1x500-mL G/P | 6010_METALS_ICP: List-3 (18) | 6 Months | HNO3 to pH <2 |
| B1XF60 (F) | | W | | | 1x500-mL G/P | 200.8_METALS_ICPMS: Arsenic (1) | 6 Months | HNO3 to pH <2 |
| B1XF61 | OZD | W | | | 1x500-mL G/P | 6010_METALS_ICP: List-3 (18) | 6 Months | HNO3 to pH <2 |
| B1XF61 | | W | | | 1x500-mL P | 300.0_ANIONS_IC: List-1 (5) | 28 Days/48 Hours | Cool~4C |
| B1XF61 | | W | | | 4x40-mL aGs* | 8260_VOA_GCMS: List-2 (25) | 14 Days | HCl or H2SO4 to pH <2 Cool~4C |
| B1XF61 | | W | | | 1x500-mL G/P | 200.8_METALS_ICPMS: Arsenic (1) | 6 Months | HNO3 to pH <2 |
| B1XF61 | | W | | | 1x250-mL G/P | 300.7_CATIONS_IC: Ammonia (1) | 28 Days | H2SO4 to pH <2 |
| B1XF61 | | W | ✓ | ✓ | 1x500-mL G/P | 410.4_COD: COD (1) | 28 Days | H2SO4 to pH <2 Cool~4C |

ICED

| Relinquished By | Print | Sign | Date/Time | Received By | Print | Sign | Date/Time |
|---|---|---|---|---|---|---|---|
| D. Woehle | | | OCT 13 2008 14:15 | | Vista Bins | | OCT 13 2008 14:15 |
| Relinquished By | | | Date/Time | Received By | | | Date/Time |
| Relinquished By | | | Date/Time | Received By | | | Date/Time |
| Relinquished By | | | Date/Time | Received By | | | Date/Time |

Matrix *

| | | | |
|---|---|---|---|
| S = Soil | | DS = Drum Solid | |
| SE = Sediment | | DL = Drum Liquid | |
| SO = Solid | | T = Tissue | |
| SL = Sludge | | WI = Wipe | |
| W = Water | | L = Liquid | |
| O = Oil | | V = Vegetation | |
| A = Air | | X = Other | |

| FINAL SAMPLE DISPOSITION | Disposal Method (e.g., Return to customer, per lab procedure, stored in process) | Disposed By | Date/Time |
|---|---|---|---|
| | | | |

| | | |
|---|---|---|
| SAF No. W09-010 | Sampling Origin Hanford Site | Purchase Order/Charge Code |
| Project Title RCRA OCTOBER 2008 | IWTF-N-SOL-17 | Ice Chest No. RW3-064 Temp. |
| Shipped To (Lab) Waste Sampling & Characterization | Method of Shipment Govt. Vehicle | Bill of Lading/Air Bill No. |
| Protocol RCRA | Priority: 45 Days | Offsite Property No. |

**POSSIBLE SAMPLE HAZARDS/REMARKS**
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

**SPECIAL INSTRUCTIONS** Hold Time — Total Activity Exemption: Yes ☑ No ☐
FY08 and FY09 samples cannot be in the same SDG
Site-Wide Generator Knowledge Form applies.

| Sample No. | Lab ID | * | Date | Time | No/Type Container | Sample Analysis | Holding Time | Preservative |
|---|---|---|---|---|---|---|---|---|
| B1XF24 (F) | 002 | W | 10-13-08 | 1042 | 1x500-mL G/P | 6010_METALS_ICP: List-3 (18) | 6 Months | HNO3 to pH <2 |
| B1XF24 (F) | | W | | | 1x500-mL G/P | 200.8_METALS_ICPMS: Arsenic (1) | 6 Months | HNO3 to pH <2 |
| B1XF25 | 012 | W | | | 1x500-mL G/P | 6010_METALS_ICP: List-3 (18) | 6 Months | HNO3 to pH <2 |
| B1XF25 | | W | | | 1x500-mL P | 300.0_ANIONS_IC: List-1 (5) | 28 Days/48 Hours | Cool~4C |
| B1XF25 | | W | | | 4x40-mL aGs* | 8260_VOA_GCMS: List-2 (25) | 14 Days | HCl or H2SO4 to pH <2 Cool~4C |
| B1XF25 | | W | | | 1x500-mL G/P | 200.8_METALS_ICPMS: Arsenic (1) | 6 Months | HNO3 to pH <2 |
| B1XF25 | | W | | | 1x250-mL G/P | 300.7_CATIONS_IC: Ammonia (1) | 28 Days | H2SO4 to pH <2 |
| B1XF25 | | W | | | 1x500-mL G/P | 410.4_COD: COD (1) | 28 Days | H2SO4 to pH <2 Cool~4C |

ICED

| Relinquished By | Received By |
|---|---|
| Print: Scott E. Hamaker Sign: [signature] Date/Time: 1314 OCT 13 2008 | Print: D. R. Williamson Sign: [signature] Date/Time: 1318 OCT 13 2008 |
| Relinquished By: D. R. Williamson [signature] Date/Time: 1415 OCT 13 2008 | Received By: Victor [signature] Date/Time: 1415 OCT 13 2008 |
| Relinquished By: Date/Time: | Received By: Date/Time: |
| Relinquished By: Date/Time: | Received By: Date/Time: |

Matrix *

| | | | |
|---|---|---|---|
| S = Soil | DS = Drum Solid | | |
| SE = Sediment | DL = Drum Liquid | | |
| SO = Solid | T = Tissue | | |
| SL = Sludge | WI = Wipe | | |
| W = Water | L = Liquid | | |
| O = Oil | V = Vegetation | | |
| A = Air | X = Other | | |

| FINAL SAMPLE DISPOSITION | Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time |
|---|---|---|---|

| | | |
|---|---|---|
| SAF No. W09-010 | Sampling Origin Hanford Site | Purchase Order/Charge Code |
| Project Title RCRA OCTOBER 2008 | HATF-N - 5060-17 | Ice Chest No. 1403-026 Temp. |
| Shipped To (Lab) Waste Sampling & Characterization | Method of Shipment Govt. Vehicle | Bill of Lading/Air Bill No. |
| Protocol RCRA | Priority: 45 Days | Offsite Property No. |

**POSSIBLE SAMPLE HAZARDS/REMARKS**
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

**SPECIAL INSTRUCTIONS** **Hold Time** Total Activity Exemption: Yes ☑ No ☐
FY08 and FY09 samples cannot be in the same SDG.
Site-Wide Generator Knowledge Form applies

| Sample No. | Lab ID | * | Date | Time | No/Type Container | Sample Analysis | Holding Time | Preservative |
|---|---|---|---|---|---|---|---|---|
| B1XF26 (F) | 003 | W | 10-13-08 | 1005 | 1x500-mL G/P | 6010_METALS_ICP: List-3 (18) | 6 Months | HNO3 to pH <2 |
| B1XF26 (F) | | W | | | 1x500-mL G/P | 200.8_METALS_ICPMS: Arsenic (1) | 6 Months | HNO3 to pH <2 |
| B1XF27 | 013 | W | | | 1x500-mL G/P | 6010_METALS_ICP: List-3 (18) | 6 Months | HNO3 to pH <2 |
| B1XF27 | | W | | | 1x500-mL P | 300.0_ANIONS_IC: List-1 (5) | 28 Days/48 Hours | Cool~4C |
| B1XF27 | | W | | | 4x40-mL aGs* | 8260_VOA_GCMS: List-2 (25) | 14 Days | HCl or H2SO4 to pH <2 Cool~4C |
| B1XF27 | | W | | | 1x500-mL G/P | 200.8_METALS_ICPMS: Arsenic (1) | 6 Months | HNO3 to pH <2 |
| B1XF27 | | W | | | 1x250-mL G/P | 300.7_CATIONS_IC: Ammonia (1) | 28 Days | H2SO4 to pH <2 |
| B1XF27 | | W | | | 1x500-mL G/P | 410.4_COD: COD (1) | 28 Days | H2SO4 to pH <2 Cool~4C |

ICED

| Relinquished By | Date/Time | Received By | Date/Time |
|---|---|---|---|
| Scott E. Hamaker (Print) Scott Hamaker (Sign) | OCT 13 2008 1318 | D. R. Williamson (Print) (Sign) | OCT 13 2008 1318 |
| D. R. Williamson (Print) (Sign) | OCT 13 2008 1445 | Victor Blas (Print) (Sign) | OCT 13 2008 1445 |
| | | | |
| | | | |

Matrix *

| | | | |
|---|---|---|---|
| S = Soil | | DS = Drum Solid | |
| SF = Sediment | | DL = Drum Liquid | |
| SO = Solid | | T = Tissue | |
| SL = Sludge | | WI = Wipe | |
| W = Water | | L = Liquid | |
| O = Oil | | V = Vegetation | |
| A = Air | | X = Other | |

| FINAL SAMPLE DISPOSITION | Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time |
|---|---|---|---|
| | | | |

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|---|---|---|
| SAF No. W09-010 | Sampling Origin Hanford Site | Purchase Order/Charge Code |
| Project Title RCRA OCTOBER 2008 | HNE-N-506-17 | Ice Chest No. Temp. |
| Shipped To (Lab) Waste Sampling & Characterization | Method of Shipment Govt. Vehicle | Bill of Lading/Air Bill No. |
| Protocol RCRA | Priority: 45 Days | Offsite Property No. |

**POSSIBLE SAMPLE HAZARDS/REMARKS**
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

**SPECIAL INSTRUCTIONS** Hold Time — Total Activity Exemption: Yes ☑ No ☐
FY08 and FY09 samples cannot be in the same SDG
Site-Wide Generator Knowledge Form applies.

| Sample No. | Lab ID | * | Date | Time | No/Type Container | Sample Analysis | Holding Time | Preservative |
|---|---|---|---|---|---|---|---|---|
| B1XF37 (F) | 004 | W | 10/13 | 1221 | 1x500-mL G/P | 6010_METALS_ICP: List-3 (18) | 6 Months | HNO3 to pH <2 |
| B1XF37 (F) | | W | | | 1x500-mL G/P | 200.8_METALS_ICPMS: Arsenic (1) | 6 Months | HNO3 to pH <2 |
| B1XF38 | 014 | W | | | 1x500-mL G/P | 6010_METALS_ICP: List-3 (18) | 6 Months | HNO3 to pH <2 |
| B1XF38 | | W | | | 1x500-mL P | 300.0_ANIONS_IC: List-1 (5) | 28 Days/48 Hours | Cool~4C |
| B1XF38 | | W | | | 4x40-mL aGs' | 8260_VOA_GCMS: List-2 (25) | 14 Days | HCl or H2SO4 to pH <2 Cool~4C |
| B1XF38 | | W | | | 1x500-mL G/P | 200.8_METALS_ICPMS: Arsenic (1) | 6 Months | HNO3 to pH <2 |
| B1XF38 | | W | | | 1x250-mL G/P | 300.7_CATIONS_IC: Ammonia (1) | 28 Days | H2SO4 to pH <2 |
| B1XF38 | | W | | | 1x500-mL G/P | 410.4_COD: COD (1) | 28 Days | H2SO4 to pH <2 Cool~4C |

ICED

| Relinquished By | Print | Sign | Date/Time | Received By | Print | Sign | Date/Time |
|---|---|---|---|---|---|---|---|
| | Scott E. Hamaker | | OCT 13 2008 1318 | | D. R. Williamson | | OCT 13 2008 1318 |
| Relinquished By | D. R. Williamson | | OCT 13 2008 1415 | Received By | | | OCT 13 2008 1415 |
| Relinquished By | | | Date/Time | Received By | | | Date/Time |
| Relinquished By | | | Date/Time | Received By | | | Date/Time |

Matrix *

| | | | |
|---|---|---|---|
| S | = Soil | DS | = Drum Solid |
| SS | = Sediment | DL | = Drum Liquid |
| SD | = Solid | T | = Tissue |
| SL | = Sludge | WI | = Wipe |
| W | = Water | L | = Liquid |
| O | = Oil | V | = Vegetation |
| A | = Air | X | = Other |

| FINAL SAMPLE DISPOSITION | Disposal Method (e.g., Return to customer per lab procedure, used in process) | Disposed By | Date/Time |
|---|---|---|---|
| | | | |

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|---|---|---|
| SAF No. W09-010 | Sampling Origin Hanford Site | Purchase Order/Charge Code |
| Project Title RCRA OCTOBER 2008 | HWF-N-506-17 | Ice Chest No. GW3-066 Temp. |
| Shipped To (Lab) Waste Sampling & Characterization | Method of Shipment Govt. Vehicle | Bill of Lading/Air Bill No. |
| Protocol RCRA | Priority: 45 Days | Offsite Property No. |

**POSSIBLE SAMPLE HAZARDS/REMARKS**
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

**SPECIAL INSTRUCTIONS** Hold Time
FY08 and FY09 samples cannot be in the same SDG
Site-Wide Generator Knowledge Form applies

Total Activity Exemption: Yes ☑ No ☐

| Sample No. | Lab ID | * | Date | Time | No/Type Container | Sample Analysis | Holding Time | Preservative |
|---|---|---|---|---|---|---|---|---|
| B1XF39 (F) | 005 | W | 10-13-08 | 1121 | 1x500-mL G/P | 6010_METALS_ICP: List-3 (18) | 6 Months | HNO3 to pH <2 |
| B1XF39 (F) | | W | | | 1x500-mL G/P | 200.8_METALS_ICPMS: Arsenic (1) | 6 Months | HNO3 to pH <2 |
| B1XF40 | 015 | W | | | 1x500-mL G/P | 6010_METALS_ICP: List-3 (18) | 6 Months | HNO3 to pH <2 |
| B1XF40 | | W | | | 1x500-mL P | 300.0_ANIONS_IC: List-1 (5) | 28 Days/48 Hours | Cool~4C |
| B1XF40 | | W | | | 4x40-mL aGs* | 8260_VOA_GCMS: List-2 (25) | 14 Days | HCl or H2SO4 to pH <2 Cool~4C |
| B1XF40 | | W | | | 1x500-mL G/P | 200.8_METALS_ICPMS: Arsenic (1) | 6 Months | HNO3 to pH <2 |
| B1XF40 | | W | | | 1x250-mL G/P | 300.7_CATIONS_IC: Ammonia (1) | 28 Days | H2SO4 to pH <2 |
| B1XF40 | | W | | | 1x500-mL G/P | 410.4_COD: COD (1) | 28 Days | H2SO4 to pH <2 Cool~4C |

ICED

| Relinquished By | Received By |
|---|---|
| Print: Scott E. Hamaker Sign: Date/Time: OCT 13 2008 1318 | Print: D. R. Williamson Sign: Date/Time: OCT 13 2008 1318 |
| Print: D. R. Williamson Sign: Date/Time: OCT 13 2008 1415 | Print: Victor Sims Sign: Date/Time: OCT 13 2008 1415 |
| Print: Sign: Date/Time: | Print: Sign: Date/Time: |
| Print: Sign: Date/Time: | Print: Sign: Date/Time: |

Matrix *

| | | | |
|---|---|---|---|
| S | = Soil | DS | = Drum Solid |
| SE | = Sediment | DL | = Drum Liquid |
| SO | = Solid | T | = Tissue |
| SL | = Sludge | WI | = Wine |
| W | = Water | L | = Liquid |
| O | = Oil | V | = Vegetation |
| A | = Air | X | = Other |

| FINAL SAMPLE DISPOSITION | Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time |
|---|---|---|---|
| | | | |

# Sample Receipt

## Chain of Custody

| | | |
|---|---|---|
| SAF No. W09-010 | Sampling Origin Hanford Site | Purchase Order/Charge Code |
| Project Title RCRA, OCTOBER 2008 | HWF-U-506-16 | Ice Chest No. 6W5 0251 Temp. |
| Shipped To (Lab) Waste Sampling & Characterization | Method of Shipment Govt. Vehicle | Bill of Lading/Air Bill No. |
| Protocol RCRA | Priority: 45 Days | Offsite Property No. |

**POSSIBLE SAMPLE HAZARDS/REMARKS**
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

**SPECIAL INSTRUCTIONS** Hold Time — Total Activity Exemption: Yes ☑ No ☐
FY08 and FY09 samples cannot be in the same SDG
Site-Wide Generator Knowledge Form applies.

| Sample No. | Lab ID | * | Date | Time | No/Type Container | Sample Analysis | Holding Time | Preservative |
|---|---|---|---|---|---|---|---|---|
| B1XF41 (F) | 006 | W | 10/13/08 | 1022 | 1x500-mL G/P | 6010_METALS_ICP: List-3 (18) | 6 Months | HNO3 to pH <2 |
| B1XF41 (F) | | W | | | 1x500-mL G/P | 200.8_METALS_ICPMS: Arsenic (1) | 6 Months | HNO3 to pH <2 |
| B1XF42 | 016 | W | | | 1x500-mL G/P | 6010_METALS_ICP: List-3 (18) | 6 Months | HNO3 to pH <2 |
| B1XF42 | | W | | | 1x500-mL P | 300.0_ANIONS_IC: List-1 (5) | 28 Days/48 Hours | Cool~4C |
| B1XF42 | | W | | | 4x40-mL aGs* | 8260_VOA_GCMS: List-2 (25) | 14 Days | HCl or H2SO4 to pH <2 Cool~4C |
| B1XF42 | | W | | | 1x500-mL G/P | 200.8_METALS_ICPMS: Arsenic (1) | 6 Months | HNO3 to pH <2 |
| B1XF42 | | W | | | 1x250-mL G/P | 300.7_CATIONS_IC: Ammonia (1) | 28 Days | H2SO4 to pH <2 |
| B1XF42 | | W | | | 1x500-mL G/P | 410.4_COD: COD (1) | 28 Days | H2SO4 to pH <2 Cool~4C |

ICED

| Relinquished By | Print | Sign | Date/Time | Received By | Print | Sign | Date/Time |
|---|---|---|---|---|---|---|---|
| D. Woehle | | | OCT 13 2008 1415 | | | | OCT 13 2008 1415 |
| Relinquished By | | | Date/Time | Received By | | | Date/Time |
| Relinquished By | | | Date/Time | Received By | | | Date/Time |
| Relinquished By | | | Date/Time | Received By | | | Date/Time |

Matrix *

| | | | |
|---|---|---|---|
| S = Soil | | DS = Drum Solid | |
| SF = Sediment | | DL = Drum Liquid | |
| SO = Solid | | T = Tissue | |
| SL = Sludge | | WI = Wipe | |
| W = Water | | L = Liquid | |
| O = Oil | | V = Vegetation | |
| A = Air | | X = Other | |

| FINAL SAMPLE DISPOSITION | Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time |
|---|---|---|---|

# Sample Receipt

## Chain of Custody

| | | |
|---|---|---|
| SAF No. W09-010 | Sampling Origin Hanford Site | Purchase Order/Charge Code |
| Project Title RCRA, OCTOBER 2008 | HNF-N-506-6 | Ice Chest No. GWS-029 Temp. |
| Shipped To (Lab) Waste Sampling & Characterization | Method of Shipment Govt. Vehicle | Bill of Lading/Air Bill No. |
| Protocol RCRA | Priority: 45 Days | Offsite Property No. |

**POSSIBLE SAMPLE HAZARDS/REMARKS**
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

**SPECIAL INSTRUCTIONS** Hold Time
FY08 and FY99 samples cannot be in the same SDG
Site-Wide Generator Knowledge Form applies

Total Activity Exemption: Yes ☑ No

| Sample No. | Lab ID | * | Date | Time | No/Type Container | Sample Analysis | Holding Time | Preservative |
|---|---|---|---|---|---|---|---|---|
| B1XF48 (F) | 007 | W | 10/13/08 | 1134 | 1x500-mL G/P | 6010_METALS_ICP: List-3 (18) | 6 Months | HNO3 to pH <2 |
| B1XF48 (F) | | W | | | 1x500-mL G/P | 200.8_METALS_ICPMS: Arsenic (1) | 6 Months | HNO3 to pH <2 |
| B1XF49 | 017 | W | | | 1x500-mL G/P | 6010_METALS_ICP: List-3 (18) | 6 Months | HNO3 to pH <2 |
| B1XF49 | | W | | | 1x500-mL P | 300.0_ANIONS_IC: List-1 (6) | 28 Days/48 Hours | Cool~4C |
| B1XF49 | | W | | | 4x40-mL aGs* | 8260_VOA_GCMS: List-2 (25) | 14 Days | HCl or H2SO4 to pH <2 Cool~4C |
| B1XF49 | | W | | | 1x500-mL G/P | 200.8_METALS_ICPMS: Arsenic (1) | 6 Months | HNO3 to pH <2 |
| B1XF49 | | W | | | 1x250-mL G/P | 300.7_CATIONS_IC: Ammonia (1) | 28 Days | H2SO4 to pH <2 |
| B1XF49 | | W | | | 1x500-mL G/P | 410.4_COD: COD (1) | 28 Days | H2SO4 to pH <2 Cool~4C |

ICED

| Relinquished By | Print | Sign | Date/Time | Received By | Print | Sign | Date/Time |
|---|---|---|---|---|---|---|---|
| | D. Woehle | | 1415 OCT 13 2008 | | Victor Sims | | 1415 OCT 13 2008 |
| Relinquished By | | | Date/Time | Received By | | | Date/Time |
| Relinquished By | | | Date/Time | Received By | | | Date/Time |
| Relinquished By | | | Date/Time | Received By | | | Date/Time |

Matrix *

| | | | |
|---|---|---|---|
| S | = Soil | DS | = Drum Solid |
| SF | = Sediment | DL | = Drum Liquid |
| SO | = Solid | T | = Tissue |
| SL | = Sludge | WI | = Wipe |
| W | = Water | L | = Liquid |
| O | = Oil | V | = Vegetation |
| A | = Air | X | = Other |

**FINAL SAMPLE DISPOSITION** Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

| | | |
|---|---|---|
| SAF No. W09-010 | Sampling Origin Hanford Site | Purchase Order/Charge Code |
| Project Title RCRA OCTOBER 2008 | HWF-N-506-16 | Ice Chest No. GWS029 Temp. |
| Shipped To (Lab) Waste Sampling & Characterization | Method of Shipment Govt. Vehicle | Bill of Lading/Air Bill No. |
| Protocol RCRA | Priority: 45 Days | Offsite Property No. |

**POSSIBLE SAMPLE HAZARDS/REMARKS**
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

**SPECIAL INSTRUCTIONS** Hold Time
FY08 and FY09 samples cannot be in the same SDG.
Site-Wide Generator Knowledge Form applies

Total Activity Exemption: Yes ✓ No

| Sample No. | Lab ID | * | Date | Time | No/Type Container | Sample Analysis | Holding Time | Preservative |
|---|---|---|---|---|---|---|---|---|
| B1XF50 (F) | 08 | W | 10/13/08 | 1134 | 1x500-mL G/P | 6010_METALS_ICP: List-3 (18) | 6 Months | HNO3 to pH <2 |
| B1XF50 (F) | | W | | | 1x500-mL G/P | 200.8_METALS_ICPMS: Arsenic (1) | 6 Months | HNO3 to pH <2 |
| B1XF51 | 98 | W | | | 1x500-mL G/P | 6010_METALS_ICP: List-3 (18) | 6 Months | HNO3 to pH <2 |
| B1XF51 | | W | | | 1x500-mL P | 300.0_ANIONS_IC: List-1 (5) | 28 Days/48 Hours | Cool~4C |
| B1XF51 | | W | | | 4x40-mL aGs* | 8260_VOA_GCMS: List-2 (25) | 14 Days | HCl or H2SO4 to pH <2 Cool~4C |
| B1XF51 | | W | | | 1x500-mL G/P | 200.8_METALS_ICPMS: Arsenic (1) | 6 Months | HNO3 to pH <2 |
| B1XF51 | | W | | | 1x250-mL G/P | 300.7_CATIONS_IC: Ammonia (1) | 28 Days | H2SO4 to pH <2 |
| B1XF51 | | W | | | 1x500-mL G/P | 410.4_COD: COD (1) | 28 Days | H2SO4 to pH <2 Cool~4C |

ICED

| Relinquished By | Print | Sign | Date/Time | Received By | Print | Sign | Date/Time |
|---|---|---|---|---|---|---|---|
| | D. Woehle | | 1415 OCT 13 2008 | | Victor Bruns | | 1415 OCT 13 2008 |
| Relinquished By | | | Date/Time | Received By | | | Date/Time |
| Relinquished By | | | Date/Time | Received By | | | Date/Time |
| Relinquished By | | | Date/Time | Received By | | | Date/Time |

Matrix *

| | | | |
|---|---|---|---|
| S | = Soil | DS | = Drum Solid |
| SE | = Sediment | DL | = Drum Liquid |
| SO | = Solid | T | = Tissue |
| SL | = Sludge | WI | = Wipe |
| W | = Water | L | = Liquid |
| O | = Oil | V | = Vegetation |
| A | = Air | X | = Other |

| FINAL SAMPLE DISPOSITION | Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time |
|---|---|---|---|
| | | | |

| | | |
|---|---|---|
| Scott E. Hamaker | Mike Neely | 307-372-0829 |
| SAF No. W09-010 | Sampling Origin Hanford Site | Purchase Order/Charge Code |
| Project Title RCRA OCTOBER 2008 | HWF-N-50-17 | Ice Chest No. BW3-066 Temp. |
| Shipped To (Lab) Waste Sampling & Characterization | Method of Shipment Govt. Vehicle | Bill of Lading/Air Bill No. |
| Protocol RCRA | Priority: 45 Days | Offsite Property No. |

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| Sample No. | Lab ID | * | Date | Time | No/Type Container | Sample Analysis | Holding Time | Preservative |
|---|---|---|---|---|---|---|---|---|
| B1XF58 (F) | 618 | W | 10-13-08 | 1305 | 1x500-mL G/P | 6010_METALS_ICP: List-3 (18) | 6 Months | HNO3 to pH <2 |
| B1XF58 (F) | | W | | | 1x500-mL G/P | 200.8_METALS_ICPMS: Arsenic (1) | 6 Months | HNO3 to pH <2 |
| B1XF59 | 619 | W | | | 1x500-mL G/P | 6010_METALS_ICP: List-3 (18) | 6 Months | HNO3 to pH <2 |
| B1XF59 | | W | | | 1x500-mL P | 300.0_ANIONS_IC: List-1 (5) | 28 Days/48 Hours | Cool~4C |
| B1XF59 | | W | | | 4x40-mL aGs* | 8260_VOA_GCMS: List-2 (25) | 14 Days | HCl or H2SO4 to pH <2 Cool~4C |
| B1XF59 | | W | | | 1x500-mL G/P | 200.8_METALS_ICPMS: Arsenic (1) | 6 Months | HNO3 to pH <2 |
| B1XF59 | | W | | | 1x250-mL G/P | 300.7_CATIONS_IC: Ammonia (1) | 28 Days | H2SO4 to pH <2 |
| B1XF59 | | W | | | 1x500-mL G/P | 410.4_COD: COD (1) | 28 Days | H2SO4 to pH <2 Cool~4C |

ICED

| Relinquished By | Print | Sign | Date/Time | Received By | Print | Sign | Date/Time |
|---|---|---|---|---|---|---|---|
| Scott E. Hamaker | Scott Hamaker | | OCT 13 2008 1318 | D. R. Williamson | D Williamson | | OCT 13 2008 1318 |
| D. R. Williamson | D Williamson | | OCT 13 2008 1415 | Victor Bias | Victor Bias | | OCT 13 2008 1415 |
| Relinquished By | | | Date/Time | Received By | | | Date/Time |
| Relinquished By | | | Date/Time | Received By | | | Date/Time |

Matrix *

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|---|---|---|---|
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