U.S. DEPARTMENT OF ENERGY

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# Geochemical Characterization of Sediments from UPR 200-E-81

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Pacific Northwest
NATIONAL LABORATORY

07/28/08 11:02

To: Fredrick Mann

From: Michael J. Lindberg

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Energy and Environment Directorate, Pacific Northwest National Laboratory

Subject: Geochemical Study of Grab Samples Collected From UPR 200-E-81, Sample Delivery Group ESL080022, SAF Number V08-003

This letter contains the following information for sample delivery group ESL080022

- Cover Sheet
- Narrative
- Analytical Results
- Quality Control
- Geologic Logs
- Geologic Photos
- Chain of Custodies

## Introduction

Between May 15, 2008 and June 9, 2008 soil cores and grab samples were received from UPR 200-E-81 for geochemical studies.

### Analytical Results/Methodology

The analyses for this project were performed at the 325 building located in the 300 Area of the Hanford Site. The analyses were performed according to Pacific Northwest National Laboratory (PNNL) approved procedures and/or nationally recognized test procedures. The data sets include the sample identification numbers, analytical results, estimated quantification limits (EQL), and quality control data.

### Quality Control

The preparatory and analytical quality control requirements, calibration requirements, acceptance criteria, and failure actions are defined in the on-line QA plan "Conducting Analytical Work in Support of Regulatory Programs" (CAW). This QA plan implements the Hanford Analytical Services Quality Assurance Requirements Documents (HASQARD) for PNNL.

### Definitions

Dup Duplicate
RPD Relative Percent Difference

### Sample Receipt

Samples were received with a chain of custody (COC) and were analyzed according to the sample identification numbers supplied by the client. All Samples were refrigerated upon receipt until prepared for analysis.

All samples were received with custody seals intact unless noted in the Case Narrative.

### Holding Times

Holding time is defined as the time from sample preparation to the time of analyses. The prescribed holding times were met for all analytes unless noted in the Case Narrative.

### Analytical Results

All reported analytical results meet the requirements of the CAW or client specified SOW unless noted in the case narrative.

# Case Narrative Report

**Hold time:**

**Preparation Blank (PB):**

**Duplicate (DUP):**

Duplicate RPD for Barium (38.7%) was above the acceptance limit (35) in 8F30003-DUP1 for ICP-OES Vadose-WE
All other duplicates and QC associated with the batch were in limits. Duplicate failure may be due to sample heterogeneity. There should be no impact to sample data as reported.

Duplicate RPD for Calcium (40.6%) was above the acceptance limit (35) in 8F30003-DUP1 for ICP-OES Vadose-WE
All other duplicates and QC associated with the batch were in limits. Duplicate failure may be due to sample heterogeneity. There should be no impact to sample data as reported.

Duplicate RPD for Magnesium (36.6%) was above the acceptance limit (35) in 8F30003-DUP1 for ICP-OES Vadose-WE
All other duplicates and QC associated with the batch were in limits. Duplicate failure may be due to sample heterogeneity. There should be no impact to sample data as reported.

Duplicate RPD for Manganese (44.4%) was above the acceptance limit (35) in 8F30003-DUP1 for ICP-OES Vadose-WE
All other duplicates and QC associated with the batch were in limits. Duplicate failure may be due to sample heterogeneity. There should be no impact to sample data as reported.

Duplicate RPD for Titanium (58.9%) was above the acceptance limit (35) in 8F30003-DUP1 for ICP-OES Vadose-WE
All other duplicates and QC associated with the batch were in limits. Duplicate failure may be due to sample heterogeneity. There should be no impact to sample data as reported.

**Laboratory control samples (LCS):**

The acid extraction laboratory control standard failed criteria for silver. It was determined that silver is not stable in the nitric acid digestion as performed. Silver is not reported for acid extracted samples.

**Post spike (PS) and post spike duplicate (PSD):**

**Matrix spike (MS) and matrix spike duplicate (MSD):**

Not Applicable.

**Other QC Criteria:**

Continuing Calibration Blank 3 analyzed with the water extracts showed a concentration of sodium, 258 ug/L, above the EQL, 223 ug/L. All other calibration blanks analyzed met QC criteria. There should be no impact to the sodium data as reported,

## DISCLAIMER



## SAMPLES INCLUDED IN THIS REPORT

### C-Farm Direct Push C6394

| HEIS No. | Laboratory ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| B1VJ54B | 0805020-01 | SOIL | 5/13/08 10:25 | 5/15/08 13:20 |
| B1VJ54C | 0805020-02 | SOIL | 5/13/08 10:25 | 5/15/08 13:20 |
| B1VJ55B | 0805020-04 | SOIL | 5/13/08 11:30 | 5/15/08 13:20 |
| B1VJ55C | 0805020-05 | SOIL | 5/13/08 11:30 | 5/15/08 13:20 |
| B1VJ56A | 0805020-07 | SOIL | 5/14/08 12:00 | 5/15/08 13:20 |
| B1VJ56B | 0805020-08 | SOIL | 5/14/08 12:00 | 5/15/08 13:20 |
| B1VJ56C | 0805020-09 | SOIL | 5/14/08 12:00 | 5/15/08 13:20 |
| B1VJ58C | 0805020-10 | SOIL | 5/19/08 09:45 | 5/19/08 14:00 |
| B1VJ58B | 0805020-11 | SOIL | 5/19/08 09:45 | 5/19/08 14:00 |
| B1VJ58A | 0805020-12 | SOIL | 5/19/08 09:45 | 5/19/08 14:00 |
| B1VJ59C | 0805020-14 | SOIL | 5/22/08 11:00 | 5/28/08 14:45 |
| B1VJ59B | 0805020-15 | SOIL | 5/22/08 11:00 | 5/28/08 14:45 |
| B1VJ59A | 0805020-16 | SOIL | 5/22/08 11:00 | 5/28/08 14:45 |
| B1VJ60C | 0805020-18 | SOIL | 5/23/08 10:00 | 5/28/08 14:45 |
| B1VJ60B | 0805020-19 | SOIL | 5/23/08 10:00 | 5/28/08 14:45 |
| B1VJ60A | 0805020-20 | SOIL | 5/23/08 10:00 | 5/28/08 14:45 |
| B1VJ61C | 0805020-22 | SOIL | 5/27/08 13:30 | 5/28/08 14:45 |
| B1VJ61B | 0805020-23 | SOIL | 5/27/08 13:30 | 5/28/08 14:45 |
| B1VJ61A | 0805020-24 | SOIL | 5/27/08 13:30 | 5/28/08 14:45 |
| B1VJ62C | 0805020-26 | SOIL | 5/28/08 10:10 | 5/29/08 13:40 |
| B1VJ62B | 0805020-27 | SOIL | 5/28/08 10:10 | 5/29/08 13:40 |
| B1VJ62A | 0805020-28 | SOIL | 5/28/08 10:10 | 5/29/08 13:40 |
| B1VJ64C | 0805020-30 | SOIL | 6/9/08 10:10 | 6/9/08 13:40 |
| B1VJ64B | 0805020-31 | SOIL | 6/9/08 10:10 | 6/9/08 13:40 |
| B1VJ64A | 0805020-32 | SOIL | 6/9/08 10:10 | 6/9/08 13:40 |

The following analyses were performed on the following samples included in this report:

Metals 1:1 DI Water Extract by ICPMS

Metals Acid Extract by ICPMS

1:1 DI Water Extract

Actinide Acid Extract by ICPMS

AGG-TOC-001

Alkalinity, Titrimetic (pH 4.5)

Anions By Ion Chromatography

Carbon, Total, Combustion or Oxidation

GEA No Preparation

geological description

Inorganic Carbon, Total, Combustion or Oxidation

Metals 1:1 Water Extract by ICPOES

Metals Acid Extract by ICPOES

Moisture Content

Nitric Acid Digestion

Percent Solids

pH of Waters By Electrode

Specific Conductance

Tc_U Acid Extract by ICPMS

Tc_U 1:1 DI Water Extract by ICPMS

Total Alpha Total Beta 1:1 DI Water Extract By LSC

Total Alpha Total Beta Acid Extract By LSC

## SAMPLES ANALYZED IN THIS REPORT

| HEIS No. | Laboratory ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| B1VJ54B | 0805020-01 | SOIL | 5/13/08 10:25 | 5/15/08 13:20 |
| B1VJ54C | 0805020-02 | SOIL | 5/13/08 10:25 | 5/15/08 13:20 |
| B1VJ55B | 0805020-04 | SOIL | 5/13/08 11:30 | 5/15/08 13:20 |
| B1VJ55C | 0805020-05 | SOIL | 5/13/08 11:30 | 5/15/08 13:20 |
| B1VJ56A | 0805020-07 | SOIL | 5/14/08 12:00 | 5/15/08 13:20 |
| B1VJ56B | 0805020-08 | SOIL | 5/14/08 12:00 | 5/15/08 13:20 |
| B1VJ56C | 0805020-09 | SOIL | 5/14/08 12:00 | 5/15/08 13:20 |
| B1VJ58C | 0805020-10 | SOIL | 5/19/08 09:45 | 5/19/08 14:00 |
| B1VJ58B | 0805020-11 | SOIL | 5/19/08 09:45 | 5/19/08 14:00 |
| B1VJ58A | 0805020-12 | SOIL | 5/19/08 09:45 | 5/19/08 14:00 |
| B1VJ59C | 0805020-14 | SOIL | 5/22/08 11:00 | 5/28/08 14:45 |
| B1VJ59B | 0805020-15 | SOIL | 5/22/08 11:00 | 5/28/08 14:45 |
| B1VJ59A | 0805020-16 | SOIL | 5/22/08 11:00 | 5/28/08 14:45 |
| B1VJ60C | 0805020-18 | SOIL | 5/23/08 10:00 | 5/28/08 14:45 |
| B1VJ60B | 0805020-19 | SOIL | 5/23/08 10:00 | 5/28/08 14:45 |
| B1VJ60A | 0805020-20 | SOIL | 5/23/08 10:00 | 5/28/08 14:45 |
| B1VJ61C | 0805020-22 | SOIL | 5/27/08 13:30 | 5/28/08 14:45 |
| B1VJ61B | 0805020-23 | SOIL | 5/27/08 13:30 | 5/28/08 14:45 |
| B1VJ61A | 0805020-24 | SOIL | 5/27/08 13:30 | 5/28/08 14:45 |
| B1VJ62C | 0805020-26 | SOIL | 5/28/08 10:10 | 5/29/08 13:40 |
| B1VJ62B | 0805020-27 | SOIL | 5/28/08 10:10 | 5/29/08 13:40 |
| B1VJ62A | 0805020-28 | SOIL | 5/28/08 10:10 | 5/29/08 13:40 |
| B1VJ64C | 0805020-30 | SOIL | 6/9/08 10:10 | 6/9/08 13:40 |
| B1VJ64B | 0805020-31 | SOIL | 6/9/08 10:10 | 6/9/08 13:40 |
| B1VJ64A | 0805020-32 | SOIL | 6/9/08 10:10 | 6/9/08 13:40 |

## Wet Chemistry

### Alkalinity as CaCO3 (ug/g dry) by Standard Methods 2320B

| Lab ID | HEIS No. | Results | EQL | Analyzed | Batch |
|---|---|---|---|---|---|
| 0805020-01 | B1VJ54B | 9.26E1 | 2.39E1 | 6/30/08 | 8F30007 |
| 0805020-05 | B1VJ55C | 1.17E2 | 2.35E1 | 6/30/08 | 8F30007 |
| 0805020-07 | B1VJ56A | 4.93E2 | 2.52E1 | 6/30/08 | 8F30007 |
| 0805020-08 | B1VJ56B | 5.26E2 | 2.35E1 | 6/30/08 | 8F30007 |
| 0805020-09 | B1VJ56C | 4.04E2 | 2.35E1 | 6/30/08 | 8F30007 |
| 0805020-10 | B1VJ58C | 8.32E2 | 2.35E1 | 6/30/08 | 8F30007 |
| 0805020-11 | B1VJ58B | 9.25E2 | 2.36E1 | 6/30/08 | 8F30007 |
| 0805020-12 | B1VJ58A | 8.61E2 | 2.35E1 | 6/30/08 | 8F30007 |
| 0805020-14 | B1VJ59C | 8.51E1 | 2.35E1 | 6/30/08 | 8F30007 |
| 0805020-15 | B1VJ59B | 4.56E1 | 2.35E1 | 6/30/08 | 8F30007 |
| 0805020-16 | B1VJ59A | 4.52E1 | 2.37E1 | 6/30/08 | 8F30007 |
| 0805020-18 | B1VJ60C | 8.05E1 | 2.35E1 | 6/30/08 | 8F30007 |
| 0805020-19 | B1VJ60B | 4.18E1 | 2.35E1 | 6/30/08 | 8F30007 |
| 0805020-20 | B1VJ60A | 4.10E1 | 2.35E1 | 6/30/08 | 8F30007 |
| 0805020-22 | B1VJ61C | 4.79E1 | 2.35E1 | 6/30/08 | 8F30007 |
| 0805020-23 | B1VJ61B | 4.15E1 | 2.37E1 | 6/30/08 | 8F30007 |
| 0805020-24 | B1VJ61A | 3.94E1 | 2.44E1 | 6/30/08 | 8F30007 |
| 0805020-26 | B1VJ62C | 5.85E1 | 2.35E1 | 6/30/08 | 8F30007 |
| 0805020-27 | B1VJ62B | 3.96E1 | 2.35E1 | 6/30/08 | 8F30008 |
| 0805020-28 | B1VJ62A | 3.88E1 | 2.35E1 | 6/30/08 | 8F30008 |
| 0805020-30 | B1VJ64C | 5.17E1 | 2.35E1 | 6/30/08 | 8F30008 |
| 0805020-31 | B1VJ64B | 4.10E1 | 2.35E1 | 6/30/08 | 8F30008 |
| 0805020-32 | B1VJ64A | 4.04E1 | 2.23E1 | 6/30/08 | 8F30008 |

## Wet Chemistry

### Specific Conductance (EC) (mS/cm) by EPA 120.1

| Lab ID | HEIS No. | Results | EQL | Analyzed | Batch |
|---|---|---|---|---|---|
| 0805020-01 | B1VJ54B | 1.76E-1 | 1.00E-2 | 6/26/08 | 8F26007 |
| 0805020-05 | B1VJ55C | 2.52E-1 | 1.00E-2 | 6/26/08 | 8F26007 |
| 0805020-07 | B1VJ56A | 8.23E-1 | 1.00E-2 | 6/26/08 | 8F26007 |
| 0805020-08 | B1VJ56B | 9.68E-1 | 1.00E-2 | 6/26/08 | 8F26007 |
| 0805020-09 | B1VJ56C | 7.69E-1 | 1.00E-2 | 6/26/08 | 8F26007 |
| 0805020-10 | B1VJ58C | 1.84E0 | 1.00E-2 | 6/26/08 | 8F26007 |
| 0805020-11 | B1VJ58B | 2.01E0 | 1.00E-2 | 6/26/08 | 8F26007 |
| 0805020-12 | B1VJ58A | 1.91E0 | 1.00E-2 | 6/26/08 | 8F26007 |
| 0805020-14 | B1VJ59C | 2.34E-1 | 1.00E-2 | 6/26/08 | 8F26007 |
| 0805020-15 | B1VJ59B | 1.32E-1 | 1.00E-2 | 6/26/08 | 8F26007 |
| 0805020-16 | B1VJ59A | 1.20E-1 | 1.00E-2 | 6/26/08 | 8F26007 |
| 0805020-18 | B1VJ60C | 3.30E-1 | 1.00E-2 | 6/26/08 | 8F26007 |
| 0805020-19 | B1VJ60B | 3.19E-1 | 1.00E-2 | 6/26/08 | 8F26007 |
| 0805020-20 | B1VJ60A | 2.18E-1 | 1.00E-2 | 6/26/08 | 8F26007 |
| 0805020-22 | B1VJ61C | 2.66E-1 | 1.00E-2 | 6/26/08 | 8F26007 |
| 0805020-23 | B1VJ61B | 2.24E-1 | 1.00E-2 | 6/26/08 | 8F26007 |
| 0805020-24 | B1VJ61A | 2.18E-1 | 1.00E-2 | 6/26/08 | 8F26007 |
| 0805020-26 | B1VJ62C | 6.71E-1 | 1.00E-2 | 6/26/08 | 8F26007 |
| 0805020-27 | B1VJ62B | 4.52E-1 | 1.00E-2 | 6/26/08 | 8F26008 |
| 0805020-28 | B1VJ62A | 4.66E-1 | 1.00E-2 | 6/26/08 | 8F26008 |
| 0805020-30 | B1VJ64C | 4.22E-1 | 1.00E-2 | 6/26/08 | 8F26008 |
| 0805020-31 | B1VJ64B | 2.75E-1 | 1.00E-2 | 6/26/08 | 8F26008 |
| 0805020-32 | B1VJ64A | 2.66E-1 | 1.00E-2 | 6/26/08 | 8F26008 |

## Wet Chemistry

### Moisture Content (% by Weight) by AGG-WC-001

| Lab ID | HEIS No. | Results | EQL | Analyzed | Batch |
|---|---|---|---|---|---|
| 0805020-01 | B1VJ54B | 9.86E0 | N/A | 6/20/08 | 8F11008 |
| 0805020-02 | B1VJ54C | 9.52E0 | N/A | 6/20/08 | 8F11008 |
| 0805020-04 | B1VJ55B | 8.90E0 | N/A | 6/20/08 | 8F11008 |
| 0805020-05 | B1VJ55C | 9.84E0 | N/A | 6/20/08 | 8F11008 |
| 0805020-07 | B1VJ56A | 8.00E0 | N/A | 6/20/08 | 8F11008 |
| 0805020-08 | B1VJ56B | 8.07E0 | N/A | 6/20/08 | 8F11008 |
| 0805020-09 | B1VJ56C | 5.61E0 | N/A | 6/20/08 | 8F11008 |
| 0805020-10 | B1VJ58C | 1.25E1 | N/A | 6/20/08 | 8F11008 |
| 0805020-11 | B1VJ58B | 1.36E1 | N/A | 6/20/08 | 8F11008 |
| 0805020-12 | B1VJ58A | 1.25E1 | N/A | 6/20/08 | 8F11008 |
| 0805020-14 | B1VJ59C | 6.71E0 | N/A | 6/20/08 | 8F11008 |
| 0805020-15 | B1VJ59B | 3.87E0 | N/A | 6/20/08 | 8F11008 |
| 0805020-16 | B1VJ59A | 3.04E0 | N/A | 6/20/08 | 8F11008 |
| 0805020-18 | B1VJ60C | 4.07E0 | N/A | 6/20/08 | 8F11008 |
| 0805020-19 | B1VJ60B | 5.30E0 | N/A | 6/20/08 | 8F11008 |
| 0805020-20 | B1VJ60A | 2.66E0 | N/A | 6/20/08 | 8F11008 |
| 0805020-22 | B1VJ61C | 2.89E0 | N/A | 6/20/08 | 8F11008 |
| 0805020-23 | B1VJ61B | 2.49E0 | N/A | 6/20/08 | 8F11008 |
| 0805020-24 | B1VJ61A | 2.47E0 | N/A | 6/20/08 | 8F11008 |
| 0805020-26 | B1VJ62C | 8.29E0 | N/A | 6/20/08 | 8F11008 |
| 0805020-27 | B1VJ62B | 6.85E0 | N/A | 6/20/08 | 8F11008 |
| 0805020-28 | B1VJ62A | 6.90E0 | N/A | 6/20/08 | 8F11008 |
| 0805020-30 | B1VJ64C | 6.08E0 | N/A | 6/20/08 | 8F11008 |
| 0805020-31 | B1VJ64B | 3.48E0 | N/A | 6/20/08 | 8F11008 |
| 0805020-32 | B1VJ64A | 3.10E0 | N/A | 6/20/08 | 8F11008 |

## Wet Chemistry

### pH (pH Units) by AGG-pH-001

| Lab ID | HEIS No. | Results | EQL | Analyzed | Batch |
|---|---|---|---|---|---|
| 0805020-01 | B1VJ54B | 8.67E0 | N/A | 6/26/08 | 8F26009 |
| 0805020-05 | B1VJ55C | 8.80E0 | N/A | 6/26/08 | 8F26009 |
| 0805020-07 | B1VJ56A | 1.01E1 | N/A | 6/26/08 | 8F26009 |
| 0805020-08 | B1VJ56B | 1.00E1 | N/A | 6/26/08 | 8F26009 |
| 0805020-09 | B1VJ56C | 9.85E0 | N/A | 6/26/08 | 8F26009 |
| 0805020-10 | B1VJ58C | 9.66E0 | N/A | 6/26/08 | 8F26009 |
| 0805020-11 | B1VJ58B | 9.64E0 | N/A | 6/26/08 | 8F26009 |
| 0805020-12 | B1VJ58A | 9.71E0 | N/A | 6/26/08 | 8F26009 |
| 0805020-14 | B1VJ59C | 8.29E0 | N/A | 6/26/08 | 8F26009 |
| 0805020-15 | B1VJ59B | 8.19E0 | N/A | 6/26/08 | 8F26009 |
| 0805020-16 | B1VJ59A | 8.07E0 | N/A | 6/26/08 | 8F26009 |
| 0805020-18 | B1VJ60C | 8.16E0 | N/A | 6/26/08 | 8F26009 |
| 0805020-19 | B1VJ60B | 7.98E0 | N/A | 6/26/08 | 8F26009 |
| 0805020-20 | B1VJ60A | 7.98E0 | N/A | 6/26/08 | 8F26009 |
| 0805020-22 | B1VJ61C | 8.06E0 | N/A | 6/26/08 | 8F26009 |
| 0805020-23 | B1VJ61B | 7.99E0 | N/A | 6/26/08 | 8F26009 |
| 0805020-24 | B1VJ61A | 7.94E0 | N/A | 6/26/08 | 8F26009 |
| 0805020-26 | B1VJ62C | 8.11E0 | N/A | 6/26/08 | 8F26009 |
| 0805020-27 | B1VJ62B | 7.79E0 | N/A | 6/26/08 | 8F26010 |
| 0805020-28 | B1VJ62A | 7.80E0 | N/A | 6/26/08 | 8F26010 |
| 0805020-30 | B1VJ64C | 7.94E0 | N/A | 6/26/08 | 8F26010 |
| 0805020-31 | B1VJ64B | 7.79E0 | N/A | 6/26/08 | 8F26010 |
| 0805020-32 | B1VJ64A | 7.75E0 | N/A | 6/26/08 | 8F26010 |

# Anions by Ion Chromatography

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ54B** | | **Lab ID:** | **0805020-01** | | | |
| 16984-48-8 | Fluoride | 1.17E0 | ug/g dry | 2.03E-1 | 6/26/08 | 8F26011 | AGG-IC-001 |
| 16887-00-6 | Chloride | <5.08E-1 | ug/g dry | 5.08E-1 | 6/26/08 | 8F26011 | AGG-IC-001 |
| 14797-65-0 | Nitrite | <1.02E0 | ug/g dry | 1.02E0 | 6/26/08 | 8F26011 | AGG-IC-001 |
| 24959-67-9 | Bromide | <1.02E0 | ug/g dry | 1.02E0 | 6/26/08 | 8F26011 | AGG-IC-001 |
| 14797-55-8 | Nitrate | 8.20E0 | ug/g dry | 1.02E0 | 6/26/08 | 8F26011 | AGG-IC-001 |
| 14808-79-8 | Sulfate | 4.74E0 | ug/g dry | 1.52E0 | 6/26/08 | 8F26011 | AGG-IC-001 |
| l4265-44-2 | Phosphate | <1.52E0 | ug/g dry | 1.52E0 | 6/26/08 | 8F26011 | AGG-IC-001 |
| **HEIS No.** | **B1VJ55C** | | **Lab ID:** | **0805020-05** | | | |
| 16984-48-8 | Fluoride | 1.25E0 | ug/g dry | 2.00E-1 | 6/26/08 | 8F26011 | AGG-IC-001 |
| 16887-00-6 | Chloride | 3.20E0 | ug/g dry | 5.00E-1 | 6/26/08 | 8F26011 | AGG-IC-001 |
| 14797-65-0 | Nitrite | <1.00E0 | ug/g dry | 1.00E0 | 6/26/08 | 8F26011 | AGG-IC-001 |
| 24959-67-9 | Bromide | <1.00E0 | ug/g dry | 1.00E0 | 6/26/08 | 8F26011 | AGG-IC-001 |
| 14797-55-8 | Nitrate | 1.66E1 | ug/g dry | 1.00E0 | 6/26/08 | 8F26011 | AGG-IC-001 |
| 14808-79-8 | Sulfate | 1.54E1 | ug/g dry | 1.50E0 | 6/26/08 | 8F26011 | AGG-IC-001 |
| l4265-44-2 | Phosphate | <1.50E0 | ug/g dry | 1.50E0 | 6/26/08 | 8F26011 | AGG-IC-001 |
| **HEIS No.** | **B1VJ56A** | | **Lab ID:** | **0805020-07** | | | |
| 16984-48-8 | Fluoride | 1.67E0 | ug/g dry | 2.14E-1 | 6/30/08 | 8F26011 | AGG-IC-001 |
| 16887-00-6 | Chloride | 7.29E-1 | ug/g dry | 5.36E-1 | 6/30/08 | 8F26011 | AGG-IC-001 |
| 14797-65-0 | Nitrite | <1.07E0 | ug/g dry | 1.07E0 | 6/30/08 | 8F26011 | AGG-IC-001 |
| 24959-67-9 | Bromide | <1.07E0 | ug/g dry | 1.07E0 | 6/30/08 | 8F26011 | AGG-IC-001 |
| 14797-55-8 | Nitrate | 7.77E0 | ug/g dry | 1.07E0 | 6/30/08 | 8F26011 | AGG-IC-001 |
| 14808-79-8 | Sulfate | 8.63E0 | ug/g dry | 1.61E0 | 6/30/08 | 8F26011 | AGG-IC-001 |
| l4265-44-2 | Phosphate | 2.77E0 | ug/g dry | 1.61E0 | 6/30/08 | 8F26011 | AGG-IC-001 |
| **HEIS No.** | **B1VJ56B** | | **Lab ID:** | **0805020-08** | | | |
| 16984-48-8 | Fluoride | 2.33E0 | ug/g dry | 2.00E-1 | 6/30/08 | 8F26011 | AGG-IC-001 |
| 16887-00-6 | Chloride | 9.62E-1 | ug/g dry | 5.01E-1 | 6/30/08 | 8F26011 | AGG-IC-001 |
| 14797-65-0 | Nitrite | <1.00E0 | ug/g dry | 1.00E0 | 6/30/08 | 8F26011 | AGG-IC-001 |
| 24959-67-9 | Bromide | <1.00E0 | ug/g dry | 1.00E0 | 6/30/08 | 8F26011 | AGG-IC-001 |
| 14797-55-8 | Nitrate | 9.24E0 | ug/g dry | 1.00E0 | 6/30/08 | 8F26011 | AGG-IC-001 |
| 14808-79-8 | Sulfate | 9.90E0 | ug/g dry | 1.50E0 | 6/30/08 | 8F26011 | AGG-IC-001 |
| l4265-44-2 | Phosphate | 3.19E0 | ug/g dry | 1.50E0 | 6/30/08 | 8F26011 | AGG-IC-001 |
| **HEIS No.** | **B1VJ56C** | | **Lab ID:** | **0805020-09** | | | |
| 16984-48-8 | Fluoride | 1.47E0 | ug/g dry | 2.00E-1 | 6/30/08 | 8F26011 | AGG-IC-001 |
| 16887-00-6 | Chloride | 1.62E0 | ug/g dry | 5.00E-1 | 6/30/08 | 8F26011 | AGG-IC-001 |
| 14797-65-0 | Nitrite | <1.00E0 | ug/g dry | 1.00E0 | 6/30/08 | 8F26011 | AGG-IC-001 |
| 24959-67-9 | Bromide | <1.00E0 | ug/g dry | 1.00E0 | 6/30/08 | 8F26011 | AGG-IC-001 |
| 14797-55-8 | Nitrate | 1.80E0 | ug/g dry | 1.00E0 | 6/30/08 | 8F26011 | AGG-IC-001 |
| 14808-79-8 | Sulfate | 8.57E0 | ug/g dry | 1.50E0 | 6/30/08 | 8F26011 | AGG-IC-001 |
| l4265-44-2 | Phosphate | <1.50E0 | ug/g dry | 1.50E0 | 6/30/08 | 8F26011 | AGG-IC-001 |
| **HEIS No.** | **B1VJ58C** | | **Lab ID:** | **0805020-10** | | | |
| 16984-48-8 | Fluoride | 1.79E1 | ug/g dry | 2.00E0 | 6/30/08 | 8F26011 | AGG-IC-001 |
| 16887-00-6 | Chloride | <5.00E0 | ug/g dry | 5.00E0 | 6/30/08 | 8F26011 | AGG-IC-001 |
| 14797-65-0 | Nitrite | <1.00E1 | ug/g dry | 1.00E1 | 6/30/08 | 8F26011 | AGG-IC-001 |
| 24959-67-9 | Bromide | <1.00E1 | ug/g dry | 1.00E1 | 6/30/08 | 8F26011 | AGG-IC-001 |
| 14797-55-8 | Nitrate | 1.68E2 | ug/g dry | 1.00E1 | 6/30/08 | 8F26011 | AGG-IC-001 |
| 14808-79-8 | Sulfate | 1.90E1 | ug/g dry | 1.50E1 | 6/30/08 | 8F26011 | AGG-IC-001 |
| l4265-44-2 | Phosphate | <1.50E1 | ug/g dry | 1.50E1 | 6/30/08 | 8F26011 | AGG-IC-001 |
| **HEIS No.** | **B1VJ58B** | | **Lab ID:** | **0805020-11** | | | |

# Anions by Ion Chromatography

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ58B** | | **Lab ID:** | **0805020-11** | | | |
| 16984-48-8 | Fluoride | 2.00E1 | ug/g dry | 2.01E0 | 6/30/08 | 8F26011 | AGG-IC-001 |
| 16887-00-6 | Chloride | <5.03E0 | ug/g dry | 5.03E0 | 6/30/08 | 8F26011 | AGG-IC-001 |
| 14797-65-0 | Nitrite | <1.01E1 | ug/g dry | 1.01E1 | 6/30/08 | 8F26011 | AGG-IC-001 |
| 24959-67-9 | Bromide | <1.01E1 | ug/g dry | 1.01E1 | 6/30/08 | 8F26011 | AGG-IC-001 |
| 14797-55-8 | Nitrate | 1.99E2 | ug/g dry | 1.01E1 | 6/30/08 | 8F26011 | AGG-IC-001 |
| 14808-79-8 | Sulfate | 1.83E1 | ug/g dry | 1.51E1 | 6/30/08 | 8F26011 | AGG-IC-001 |
| l4265-44-2 | Phosphate | <1.51E1 | ug/g dry | 1.51E1 | 6/30/08 | 8F26011 | AGG-IC-001 |
| **HEIS No.** | **B1VJ58A** | | **Lab ID:** | **0805020-12** | | | |
| 16984-48-8 | Fluoride | 1.78E1 | ug/g dry | 2.00E0 | 6/30/08 | 8F26011 | AGG-IC-001 |
| 16887-00-6 | Chloride | <5.00E0 | ug/g dry | 5.00E0 | 6/30/08 | 8F26011 | AGG-IC-001 |
| 14797-65-0 | Nitrite | <9.99E0 | ug/g dry | 9.99E0 | 6/30/08 | 8F26011 | AGG-IC-001 |
| 24959-67-9 | Bromide | <9.99E0 | ug/g dry | 9.99E0 | 6/30/08 | 8F26011 | AGG-IC-001 |
| 14797-55-8 | Nitrate | 1.85E2 | ug/g dry | 9.99E0 | 6/30/08 | 8F26011 | AGG-IC-001 |
| 14808-79-8 | Sulfate | 1.78E1 | ug/g dry | 1.50E1 | 6/30/08 | 8F26011 | AGG-IC-001 |
| l4265-44-2 | Phosphate | 1.60E1 | ug/g dry | 1.50E1 | 6/30/08 | 8F26011 | AGG-IC-001 |
| **HEIS No.** | **B1VJ59C** | | **Lab ID:** | **0805020-14** | | | |
| 16984-48-8 | Fluoride | 7.52E-1 | ug/g dry | 2.00E-1 | 6/26/08 | 8F26011 | AGG-IC-001 |
| 16887-00-6 | Chloride | 2.77E0 | ug/g dry | 5.00E-1 | 6/26/08 | 8F26011 | AGG-IC-001 |
| 14797-65-0 | Nitrite | <1.00E0 | ug/g dry | 1.00E0 | 6/26/08 | 8F26011 | AGG-IC-001 |
| 24959-67-9 | Bromide | <1.00E0 | ug/g dry | 1.00E0 | 6/26/08 | 8F26011 | AGG-IC-001 |
| 14797-55-8 | Nitrate | <1.00E0 | ug/g dry | 1.00E0 | 6/26/08 | 8F26011 | AGG-IC-001 |
| 14808-79-8 | Sulfate | 2.85E1 | ug/g dry | 1.50E0 | 6/26/08 | 8F26011 | AGG-IC-001 |
| l4265-44-2 | Phosphate | <1.50E0 | ug/g dry | 1.50E0 | 6/26/08 | 8F26011 | AGG-IC-001 |
| **HEIS No.** | **B1VJ59B** | | **Lab ID:** | **0805020-15** | | | |
| 16984-48-8 | Fluoride | 4.53E-1 | ug/g dry | 2.00E-1 | 6/26/08 | 8F26011 | AGG-IC-001 |
| 16887-00-6 | Chloride | 1.23E0 | ug/g dry | 5.00E-1 | 6/26/08 | 8F26011 | AGG-IC-001 |
| 14797-65-0 | Nitrite | <1.00E0 | ug/g dry | 1.00E0 | 6/26/08 | 8F26011 | AGG-IC-001 |
| 24959-67-9 | Bromide | <1.00E0 | ug/g dry | 1.00E0 | 6/26/08 | 8F26011 | AGG-IC-001 |
| 14797-55-8 | Nitrate | 2.93E0 | ug/g dry | 1.00E0 | 6/26/08 | 8F26011 | AGG-IC-001 |
| 14808-79-8 | Sulfate | 1.78E1 | ug/g dry | 1.50E0 | 6/26/08 | 8F26011 | AGG-IC-001 |
| l4265-44-2 | Phosphate | <1.50E0 | ug/g dry | 1.50E0 | 6/26/08 | 8F26011 | AGG-IC-001 |
| **HEIS No.** | **B1VJ59A** | | **Lab ID:** | **0805020-16** | | | |
| 16984-48-8 | Fluoride | 4.18E-1 | ug/g dry | 2.02E-1 | 6/26/08 | 8F26011 | AGG-IC-001 |
| 16887-00-6 | Chloride | 9.93E-1 | ug/g dry | 5.04E-1 | 6/26/08 | 8F26011 | AGG-IC-001 |
| 14797-65-0 | Nitrite | <1.01E0 | ug/g dry | 1.01E0 | 6/26/08 | 8F26011 | AGG-IC-001 |
| 24959-67-9 | Bromide | <1.01E0 | ug/g dry | 1.01E0 | 6/26/08 | 8F26011 | AGG-IC-001 |
| 14797-55-8 | Nitrate | 2.41E0 | ug/g dry | 1.01E0 | 6/26/08 | 8F26011 | AGG-IC-001 |
| 14808-79-8 | Sulfate | 1.50E1 | ug/g dry | 1.51E0 | 6/26/08 | 8F26011 | AGG-IC-001 |
| l4265-44-2 | Phosphate | <1.51E0 | ug/g dry | 1.51E0 | 6/26/08 | 8F26011 | AGG-IC-001 |
| **HEIS No.** | **B1VJ60C** | | **Lab ID:** | **0805020-18** | | | |
| 16984-48-8 | Fluoride | 1.42E0 | ug/g dry | 2.00E-1 | 6/26/08 | 8F26011 | AGG-IC-001 |
| 16887-00-6 | Chloride | 3.04E0 | ug/g dry | 5.00E-1 | 6/26/08 | 8F26011 | AGG-IC-001 |
| 14797-65-0 | Nitrite | <1.00E0 | ug/g dry | 1.00E0 | 6/26/08 | 8F26011 | AGG-IC-001 |
| 24959-67-9 | Bromide | <1.00E0 | ug/g dry | 1.00E0 | 6/26/08 | 8F26011 | AGG-IC-001 |
| 14797-55-8 | Nitrate | 1.54E0 | ug/g dry | 1.00E0 | 6/26/08 | 8F26011 | AGG-IC-001 |
| 14808-79-8 | Sulfate | 7.30E1 | ug/g dry | 1.50E0 | 6/26/08 | 8F26011 | AGG-IC-001 |
| l4265-44-2 | Phosphate | <1.50E0 | ug/g dry | 1.50E0 | 6/26/08 | 8F26011 | AGG-IC-001 |
| **HEIS No.** | **B1VJ60B** | | **Lab ID:** | **0805020-19** | | | |

# Anions by Ion Chromatography

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ60B** | | **Lab ID:** | **0805020-19** | | | |
| 16984-48-8 | Fluoride | 5.35E-1 | ug/g dry | 2.00E-1 | 6/27/08 | 8F26011 | AGG-IC-001 |
| 16887-00-6 | Chloride | 1.63E0 | ug/g dry | 5.00E-1 | 6/27/08 | 8F26011 | AGG-IC-001 |
| 14797-65-0 | Nitrite | <1.00E0 | ug/g dry | 1.00E0 | 6/27/08 | 8F26011 | AGG-IC-001 |
| 24959-67-9 | Bromide | <1.00E0 | ug/g dry | 1.00E0 | 6/27/08 | 8F26011 | AGG-IC-001 |
| 14797-55-8 | Nitrate | 7.33E0 | ug/g dry | 1.00E0 | 6/27/08 | 8F26011 | AGG-IC-001 |
| 14808-79-8 | Sulfate | 1.02E2 | ug/g dry | 1.50E0 | 6/27/08 | 8F26011 | AGG-IC-001 |
| l4265-44-2 | Phosphate | <1.50E0 | ug/g dry | 1.50E0 | 6/27/08 | 8F26011 | AGG-IC-001 |
| **HEIS No.** | **B1VJ60A** | | **Lab ID:** | **0805020-20** | | | |
| 16984-48-8 | Fluoride | 5.23E-1 | ug/g dry | 2.00E-1 | 6/27/08 | 8F26011 | AGG-IC-001 |
| 16887-00-6 | Chloride | 1.10E0 | ug/g dry | 5.00E-1 | 6/27/08 | 8F26011 | AGG-IC-001 |
| 14797-65-0 | Nitrite | <1.00E0 | ug/g dry | 1.00E0 | 6/27/08 | 8F26011 | AGG-IC-001 |
| 24959-67-9 | Bromide | <1.00E0 | ug/g dry | 1.00E0 | 6/27/08 | 8F26011 | AGG-IC-001 |
| 14797-55-8 | Nitrate | 4.24E0 | ug/g dry | 1.00E0 | 6/27/08 | 8F26011 | AGG-IC-001 |
| 14808-79-8 | Sulfate | 5.78E1 | ug/g dry | 1.50E0 | 6/27/08 | 8F26011 | AGG-IC-001 |
| l4265-44-2 | Phosphate | <1.50E0 | ug/g dry | 1.50E0 | 6/27/08 | 8F26011 | AGG-IC-001 |
| **HEIS No.** | **B1VJ61C** | | **Lab ID:** | **0805020-22** | | | |
| 16984-48-8 | Fluoride | 8.75E-1 | ug/g dry | 2.00E-1 | 6/27/08 | 8F26011 | AGG-IC-001 |
| 16887-00-6 | Chloride | 4.53E0 | ug/g dry | 5.00E-1 | 6/27/08 | 8F26011 | AGG-IC-001 |
| 14797-65-0 | Nitrite | <1.00E0 | ug/g dry | 1.00E0 | 6/27/08 | 8F26011 | AGG-IC-001 |
| 24959-67-9 | Bromide | <1.00E0 | ug/g dry | 1.00E0 | 6/27/08 | 8F26011 | AGG-IC-001 |
| 14797-55-8 | Nitrate | 8.41E0 | ug/g dry | 1.00E0 | 6/27/08 | 8F26011 | AGG-IC-001 |
| 14808-79-8 | Sulfate | 6.21E1 | ug/g dry | 1.50E0 | 6/27/08 | 8F26011 | AGG-IC-001 |
| l4265-44-2 | Phosphate | <1.50E0 | ug/g dry | 1.50E0 | 6/27/08 | 8F26011 | AGG-IC-001 |
| **HEIS No.** | **B1VJ61B** | | **Lab ID:** | **0805020-23** | | | |
| 16984-48-8 | Fluoride | 5.01E-1 | ug/g dry | 2.02E-1 | 6/27/08 | 8F26011 | AGG-IC-001 |
| 16887-00-6 | Chloride | 3.52E0 | ug/g dry | 5.05E-1 | 6/27/08 | 8F26011 | AGG-IC-001 |
| 14797-65-0 | Nitrite | <1.01E0 | ug/g dry | 1.01E0 | 6/27/08 | 8F26011 | AGG-IC-001 |
| 24959-67-9 | Bromide | <1.01E0 | ug/g dry | 1.01E0 | 6/27/08 | 8F26011 | AGG-IC-001 |
| 14797-55-8 | Nitrate | 7.04E0 | ug/g dry | 1.01E0 | 6/27/08 | 8F26011 | AGG-IC-001 |
| 14808-79-8 | Sulfate | 5.53E1 | ug/g dry | 1.52E0 | 6/27/08 | 8F26011 | AGG-IC-001 |
| l4265-44-2 | Phosphate | <1.52E0 | ug/g dry | 1.52E0 | 6/27/08 | 8F26011 | AGG-IC-001 |
| **HEIS No.** | **B1VJ61A** | | **Lab ID:** | **0805020-24** | | | |
| 16984-48-8 | Fluoride | 4.30E-1 | ug/g dry | 2.08E-1 | 6/27/08 | 8F26011 | AGG-IC-001 |
| 16887-00-6 | Chloride | 3.61E0 | ug/g dry | 5.19E-1 | 6/27/08 | 8F26011 | AGG-IC-001 |
| 14797-65-0 | Nitrite | <1.04E0 | ug/g dry | 1.04E0 | 6/27/08 | 8F26011 | AGG-IC-001 |
| 24959-67-9 | Bromide | <1.04E0 | ug/g dry | 1.04E0 | 6/27/08 | 8F26011 | AGG-IC-001 |
| 14797-55-8 | Nitrate | 7.00E0 | ug/g dry | 1.04E0 | 6/27/08 | 8F26011 | AGG-IC-001 |
| 14808-79-8 | Sulfate | 5.84E1 | ug/g dry | 1.56E0 | 6/27/08 | 8F26011 | AGG-IC-001 |
| l4265-44-2 | Phosphate | <1.56E0 | ug/g dry | 1.56E0 | 6/27/08 | 8F26011 | AGG-IC-001 |
| **HEIS No.** | **B1VJ62C** | | **Lab ID:** | **0805020-26** | | | |
| 16984-48-8 | Fluoride | <2.00E0 | ug/g dry | 2.00E0 | 6/27/08 | 8F26011 | AGG-IC-001 |
| 16887-00-6 | Chloride | 7.21E1 | ug/g dry | 5.00E0 | 6/27/08 | 8F26011 | AGG-IC-001 |
| 14797-65-0 | Nitrite | <1.00E1 | ug/g dry | 1.00E1 | 6/27/08 | 8F26011 | AGG-IC-001 |
| 24959-67-9 | Bromide | <1.00E1 | ug/g dry | 1.00E1 | 6/27/08 | 8F26011 | AGG-IC-001 |
| 14797-55-8 | Nitrate | <1.00E1 | ug/g dry | 1.00E1 | 6/27/08 | 8F26011 | AGG-IC-001 |
| 14808-79-8 | Sulfate | 1.59E2 | ug/g dry | 1.50E1 | 6/27/08 | 8F26011 | AGG-IC-001 |
| l4265-44-2 | Phosphate | <1.50E1 | ug/g dry | 1.50E1 | 6/27/08 | 8F26011 | AGG-IC-001 |
| **HEIS No.** | **B1VJ62B** | | **Lab ID:** | **0805020-27** | | | |

# Anions by Ion Chromatography

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ62B** | | **Lab ID:** | **0805020-27** | | | |
| 16984-48-8 | Fluoride | <2.00E0 | ug/g dry | 2.00E0 | 6/27/08 | 8F26016 | AGG-IC-001 |
| 16887-00-6 | Chloride | 4.10E1 | ug/g dry | 5.00E0 | 6/27/08 | 8F26016 | AGG-IC-001 |
| 14797-65-0 | Nitrite | <1.00E1 | ug/g dry | 1.00E1 | 6/27/08 | 8F26016 | AGG-IC-001 |
| 24959-67-9 | Bromide | <1.00E1 | ug/g dry | 1.00E1 | 6/27/08 | 8F26016 | AGG-IC-001 |
| 14797-55-8 | Nitrate | 1.02E1 | ug/g dry | 1.00E1 | 6/27/08 | 8F26016 | AGG-IC-001 |
| 14808-79-8 | Sulfate | 1.15E2 | ug/g dry | 1.50E1 | 6/27/08 | 8F26016 | AGG-IC-001 |
| l4265-44-2 | Phosphate | <1.50E1 | ug/g dry | 1.50E1 | 6/27/08 | 8F26016 | AGG-IC-001 |
| **HEIS No.** | **B1VJ62A** | | **Lab ID:** | **0805020-28** | | | |
| 16984-48-8 | Fluoride | 4.73E-1 | ug/g dry | 2.00E-1 | 6/27/08 | 8F26016 | AGG-IC-001 |
| 16887-00-6 | Chloride | 2.21E1 | ug/g dry | 5.01E-1 | 6/27/08 | 8F26016 | AGG-IC-001 |
| 14797-65-0 | Nitrite | <1.00E0 | ug/g dry | 1.00E0 | 6/27/08 | 8F26016 | AGG-IC-001 |
| 24959-67-9 | Bromide | <1.00E0 | ug/g dry | 1.00E0 | 6/27/08 | 8F26016 | AGG-IC-001 |
| 14797-55-8 | Nitrate | 1.14E1 | ug/g dry | 1.00E0 | 6/27/08 | 8F26016 | AGG-IC-001 |
| 14808-79-8 | Sulfate | 1.49E2 | ug/g dry | 1.50E0 | 6/27/08 | 8F26016 | AGG-IC-001 |
| l4265-44-2 | Phosphate | <1.50E0 | ug/g dry | 1.50E0 | 6/27/08 | 8F26016 | AGG-IC-001 |
| **HEIS No.** | **B1VJ64C** | | **Lab ID:** | **0805020-30** | | | |
| 16984-48-8 | Fluoride | 9.97E-1 | ug/g dry | 2.00E-1 | 6/27/08 | 8F26016 | AGG-IC-001 |
| 16887-00-6 | Chloride | 4.94E0 | ug/g dry | 5.00E-1 | 6/27/08 | 8F26016 | AGG-IC-001 |
| 14797-65-0 | Nitrite | <1.00E0 | ug/g dry | 1.00E0 | 6/27/08 | 8F26016 | AGG-IC-001 |
| 24959-67-9 | Bromide | <1.00E0 | ug/g dry | 1.00E0 | 6/27/08 | 8F26016 | AGG-IC-001 |
| 14797-55-8 | Nitrate | 9.48E0 | ug/g dry | 1.00E0 | 6/27/08 | 8F26016 | AGG-IC-001 |
| 14808-79-8 | Sulfate | 1.32E2 | ug/g dry | 1.50E0 | 6/27/08 | 8F26016 | AGG-IC-001 |
| l4265-44-2 | Phosphate | <1.50E0 | ug/g dry | 1.50E0 | 6/27/08 | 8F26016 | AGG-IC-001 |
| **HEIS No.** | **B1VJ64B** | | **Lab ID:** | **0805020-31** | | | |
| 16984-48-8 | Fluoride | 5.97E-1 | ug/g dry | 2.00E-1 | 6/27/08 | 8F26016 | AGG-IC-001 |
| 16887-00-6 | Chloride | 2.58E0 | ug/g dry | 5.00E-1 | 6/27/08 | 8F26016 | AGG-IC-001 |
| 14797-65-0 | Nitrite | <1.00E0 | ug/g dry | 1.00E0 | 6/27/08 | 8F26016 | AGG-IC-001 |
| 24959-67-9 | Bromide | <1.00E0 | ug/g dry | 1.00E0 | 6/27/08 | 8F26016 | AGG-IC-001 |
| 14797-55-8 | Nitrate | 7.12E0 | ug/g dry | 1.00E0 | 6/27/08 | 8F26016 | AGG-IC-001 |
| 14808-79-8 | Sulfate | 8.07E1 | ug/g dry | 1.50E0 | 6/27/08 | 8F26016 | AGG-IC-001 |
| l4265-44-2 | Phosphate | <1.50E0 | ug/g dry | 1.50E0 | 6/27/08 | 8F26016 | AGG-IC-001 |
| **HEIS No.** | **B1VJ64A** | | **Lab ID:** | **0805020-32** | | | |
| 16984-48-8 | Fluoride | 5.61E-1 | ug/g dry | 1.90E-1 | 6/27/08 | 8F26016 | AGG-IC-001 |
| 16887-00-6 | Chloride | 2.28E0 | ug/g dry | 4.74E-1 | 6/27/08 | 8F26016 | AGG-IC-001 |
| 14797-65-0 | Nitrite | <9.49E-1 | ug/g dry | 9.49E-1 | 6/27/08 | 8F26016 | AGG-IC-001 |
| 24959-67-9 | Bromide | <9.49E-1 | ug/g dry | 9.49E-1 | 6/27/08 | 8F26016 | AGG-IC-001 |
| 14797-55-8 | Nitrate | 1.08E1 | ug/g dry | 9.49E-1 | 6/27/08 | 8F26016 | AGG-IC-001 |
| 14808-79-8 | Sulfate | 6.89E1 | ug/g dry | 1.42E0 | 6/27/08 | 8F26016 | AGG-IC-001 |
| l4265-44-2 | Phosphate | <1.42E0 | ug/g dry | 1.42E0 | 6/27/08 | 8F26016 | AGG-IC-001 |

# Total Metals by PNNL-AGG-ICP-AES/Water Extract

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ54B** | | **Lab ID:** | **0805020-01** | | | |
| 7429-90-5 | Aluminum | 8.61E-1 | ug/g dry | 8.71E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-38-2 | Arsenic | <3.66E-1 | ug/g dry | 3.66E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-42-8 | Boron | <1.97E0 | ug/g dry | 1.97E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-39-3 | Barium | 1.82E-2 | ug/g dry | 8.93E-3 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-41-7 | Beryllium | <2.89E-2 | ug/g dry | 2.89E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-69-9 | Bismuth | <1.91E-1 | ug/g dry | 1.91E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-70-2 | Calcium | 6.80E0 | ug/g dry | 3.93E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-43-9 | Cadmium | <2.73E-2 | ug/g dry | 2.73E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-48-4 | Cobalt | <9.75E-2 | ug/g dry | 9.75E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-47-3 | Chromium | <3.38E-2 | ug/g dry | 3.38E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-50-8 | Copper | <8.17E-2 | ug/g dry | 8.17E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-89-6 | Iron | 1.17E0 | ug/g dry | 1.44E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-09-7 | Potassium | 3.95E0 | ug/g dry | 2.36E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-93-2 | Lithium | <5.48E-1 | ug/g dry | 5.48E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-95-4 | Magnesium | 1.18E0 | ug/g dry | 8.47E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-96-5 | Manganese | <1.74E-2 | ug/g dry | 1.74E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-98-7 | Molybdenum | <1.41E-1 | ug/g dry | 1.41E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-02-0 | Nickel | <9.48E-2 | ug/g dry | 9.48E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7723-14-0 | Phosphorus | <1.05E0 | ug/g dry | 1.05E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-92-1 | Lead | <4.39E-1 | ug/g dry | 4.39E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7782-49-2 | Selenium | <1.98E0 | ug/g dry | 1.98E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-24-6 | Strontium | <5.30E-2 | ug/g dry | 5.30E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-28-0 | Thallium | <1.04E0 | ug/g dry | 1.04E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-62-2 | Vanadium | 9.82E-2 | ug/g dry | 4.60E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-66-6 | Zinc | <9.42E-2 | ug/g dry | 9.42E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-23-5 | Sodium | 3.44E1 | ug/g dry | 6.80E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-21-3 | Silicon | 1.72E1 | ug/g dry | 1.52E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7704-34-9 | Sulfur | <3.12E0 | ug/g dry | 3.12E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-32-6 | Titanium | 5.32E-2 | ug/g dry | 8.90E-3 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-67-7 | Zirconium | <1.52E-1 | ug/g dry | 1.52E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-22-4 | Silver | <7.83E-2 | ug/g dry | 7.83E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-15-5 | Rhenium | <1.54E-1 | ug/g dry | 1.54E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-36-0 | Antimony | <6.43E-1 | ug/g dry | 6.43E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| **HEIS No.** | **B1VJ55C** | | **Lab ID:** | **0805020-05** | | | |
| 7429-90-5 | Aluminum | 7.28E-1 | ug/g dry | 8.58E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-38-2 | Arsenic | <3.60E-1 | ug/g dry | 3.60E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-42-8 | Boron | <1.94E0 | ug/g dry | 1.94E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-39-3 | Barium | 2.11E-2 | ug/g dry | 8.79E-3 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-41-7 | Beryllium | <2.84E-2 | ug/g dry | 2.84E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-69-9 | Bismuth | <1.88E-1 | ug/g dry | 1.88E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-70-2 | Calcium | 9.13E0 | ug/g dry | 3.87E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-43-9 | Cadmium | <2.69E-2 | ug/g dry | 2.69E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-48-4 | Cobalt | <9.60E-2 | ug/g dry | 9.60E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-47-3 | Chromium | <3.33E-2 | ug/g dry | 3.33E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-50-8 | Copper | <8.04E-2 | ug/g dry | 8.04E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-89-6 | Iron | 1.07E0 | ug/g dry | 1.42E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-09-7 | Potassium | 3.40E0 | ug/g dry | 2.33E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-93-2 | Lithium | <5.40E-1 | ug/g dry | 5.40E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |

# Total Metals by PNNL-AGG-ICP-AES/Water Extract

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ55C** | | **Lab ID:** | **0805020-05** | | | |
| 7439-95-4 | Magnesium | 1.27E0 | ug/g dry | 8.34E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-96-5 | Manganese | 2.15E-2 | ug/g dry | 1.71E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-98-7 | Molybdenum | <1.39E-1 | ug/g dry | 1.39E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-02-0 | Nickel | <9.33E-2 | ug/g dry | 9.33E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7723-14-0 | Phosphorus | <1.03E0 | ug/g dry | 1.03E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-92-1 | Lead | <4.32E-1 | ug/g dry | 4.32E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7782-49-2 | Selenium | <1.95E0 | ug/g dry | 1.95E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-24-6 | Strontium | <5.22E-2 | ug/g dry | 5.22E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-28-0 | Thallium | <1.03E0 | ug/g dry | 1.03E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-62-2 | Vanadium | 1.44E-1 | ug/g dry | 4.53E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-66-6 | Zinc | <9.27E-2 | ug/g dry | 9.27E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-23-5 | Sodium | 5.10E1 | ug/g dry | 6.69E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-21-3 | Silicon | 1.76E1 | ug/g dry | 1.50E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7704-34-9 | Sulfur | 5.54E0 | ug/g dry | 3.07E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-32-6 | Titanium | 3.97E-2 | ug/g dry | 8.76E-3 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-67-7 | Zirconium | <1.50E-1 | ug/g dry | 1.50E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-22-4 | Silver | <7.71E-2 | ug/g dry | 7.71E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-15-5 | Rhenium | <1.52E-1 | ug/g dry | 1.52E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-36-0 | Antimony | <6.33E-1 | ug/g dry | 6.33E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| **HEIS No.** | **B1VJ56A** | | **Lab ID:** | **0805020-07** | | | |
| 7429-90-5 | Aluminum | 6.95E0 | ug/g dry | 9.20E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-38-2 | Arsenic | <3.86E-1 | ug/g dry | 3.86E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-42-8 | Boron | <2.08E0 | ug/g dry | 2.08E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-39-3 | Barium | 6.11E-2 | ug/g dry | 9.42E-3 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-41-7 | Beryllium | <3.04E-2 | ug/g dry | 3.04E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-69-9 | Bismuth | <2.02E-1 | ug/g dry | 2.02E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-70-2 | Calcium | 2.69E0 | ug/g dry | 4.15E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-43-9 | Cadmium | <2.88E-2 | ug/g dry | 2.88E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-48-4 | Cobalt | <1.03E-1 | ug/g dry | 1.03E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-47-3 | Chromium | <3.57E-2 | ug/g dry | 3.57E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-50-8 | Copper | <8.62E-2 | ug/g dry | 8.62E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-89-6 | Iron | 1.05E1 | ug/g dry | 1.52E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-09-7 | Potassium | 3.62E0 | ug/g dry | 2.50E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-93-2 | Lithium | <5.79E-1 | ug/g dry | 5.79E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-95-4 | Magnesium | 1.87E0 | ug/g dry | 8.94E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-96-5 | Manganese | 1.43E-1 | ug/g dry | 1.84E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-98-7 | Molybdenum | <1.49E-1 | ug/g dry | 1.49E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-02-0 | Nickel | <1.00E-1 | ug/g dry | 1.00E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7723-14-0 | Phosphorus | 1.21E0 | ug/g dry | 1.11E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-92-1 | Lead | <4.63E-1 | ug/g dry | 4.63E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7782-49-2 | Selenium | <2.09E0 | ug/g dry | 2.09E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-24-6 | Strontium | <5.59E-2 | ug/g dry | 5.59E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-28-0 | Thallium | <1.10E0 | ug/g dry | 1.10E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-62-2 | Vanadium | 7.53E-1 | ug/g dry | 4.86E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-66-6 | Zinc | <9.94E-2 | ug/g dry | 9.94E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-23-5 | Sodium | 2.08E2 | ug/g dry | 7.17E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-21-3 | Silicon | 3.94E1 | ug/g dry | 1.61E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7704-34-9 | Sulfur | 3.50E0 | ug/g dry | 3.30E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |

# Total Metals by PNNL-AGG-ICP-AES/Water Extract

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ56A** | | **Lab ID:** | **0805020-07** | | | |
| 7440-32-6 | Titanium | 4.98E-1 | ug/g dry | 9.39E-3 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-67-7 | Zirconium | <1.61E-1 | ug/g dry | 1.61E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-22-4 | Silver | <8.26E-2 | ug/g dry | 8.26E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-15-5 | Rhenium | <1.63E-1 | ug/g dry | 1.63E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-36-0 | Antimony | <6.78E-1 | ug/g dry | 6.78E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| **HEIS No.** | **B1VJ56B** | | **Lab ID:** | **0805020-08** | | | |
| 7429-90-5 | Aluminum | 2.29E0 | ug/g dry | 8.59E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-38-2 | Arsenic | <3.61E-1 | ug/g dry | 3.61E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-42-8 | Boron | <1.94E0 | ug/g dry | 1.94E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-39-3 | Barium | 3.40E-2 | ug/g dry | 8.80E-3 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-41-7 | Beryllium | <2.85E-2 | ug/g dry | 2.85E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-69-9 | Bismuth | <1.88E-1 | ug/g dry | 1.88E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-70-2 | Calcium | 1.76E0 | ug/g dry | 3.88E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-43-9 | Cadmium | <2.69E-2 | ug/g dry | 2.69E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-48-4 | Cobalt | <9.61E-2 | ug/g dry | 9.61E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-47-3 | Chromium | <3.34E-2 | ug/g dry | 3.34E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-50-8 | Copper | <8.05E-2 | ug/g dry | 8.05E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-89-6 | Iron | 4.76E0 | ug/g dry | 1.42E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-09-7 | Potassium | 2.71E0 | ug/g dry | 2.33E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-93-2 | Lithium | <5.41E-1 | ug/g dry | 5.41E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-95-4 | Magnesium | 1.03E0 | ug/g dry | 8.35E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-96-5 | Manganese | 9.74E-2 | ug/g dry | 1.72E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-98-7 | Molybdenum | 1.71E-1 | ug/g dry | 1.39E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-02-0 | Nickel | <9.34E-2 | ug/g dry | 9.34E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7723-14-0 | Phosphorus | 1.29E0 | ug/g dry | 1.03E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-92-1 | Lead | <4.33E-1 | ug/g dry | 4.33E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7782-49-2 | Selenium | <1.95E0 | ug/g dry | 1.95E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-24-6 | Strontium | <5.23E-2 | ug/g dry | 5.23E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-28-0 | Thallium | <1.03E0 | ug/g dry | 1.03E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-62-2 | Vanadium | 9.43E-1 | ug/g dry | 4.54E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-66-6 | Zinc | <9.28E-2 | ug/g dry | 9.28E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-23-5 | Sodium | 2.28E2 | ug/g dry | 6.70E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-21-3 | Silicon | 2.25E1 | ug/g dry | 1.50E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7704-34-9 | Sulfur | 4.21E0 | ug/g dry | 3.08E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-32-6 | Titanium | 1.56E-1 | ug/g dry | 8.77E-3 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-67-7 | Zirconium | <1.50E-1 | ug/g dry | 1.50E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-22-4 | Silver | <7.72E-2 | ug/g dry | 7.72E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-15-5 | Rhenium | <1.52E-1 | ug/g dry | 1.52E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-36-0 | Antimony | <6.34E-1 | ug/g dry | 6.34E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| **HEIS No.** | **B1VJ56C** | | **Lab ID:** | **0805020-09** | | | |
| 7429-90-5 | Aluminum | 2.24E0 | ug/g dry | 8.58E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-38-2 | Arsenic | <3.60E-1 | ug/g dry | 3.60E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-42-8 | Boron | <1.94E0 | ug/g dry | 1.94E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-39-3 | Barium | 2.92E-2 | ug/g dry | 8.79E-3 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-41-7 | Beryllium | <2.84E-2 | ug/g dry | 2.84E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-69-9 | Bismuth | <1.88E-1 | ug/g dry | 1.88E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-70-2 | Calcium | 1.82E0 | ug/g dry | 3.87E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-43-9 | Cadmium | <2.69E-2 | ug/g dry | 2.69E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |

# Total Metals by PNNL-AGG-ICP-AES/Water Extract

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ56C** | | **Lab ID:** | **0805020-09** | | | |
| 7440-48-4 | Cobalt | <9.60E-2 | ug/g dry | 9.60E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-47-3 | Chromium | <3.33E-2 | ug/g dry | 3.33E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-50-8 | Copper | <8.04E-2 | ug/g dry | 8.04E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-89-6 | Iron | 3.99E0 | ug/g dry | 1.42E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-09-7 | Potassium | 2.53E0 | ug/g dry | 2.33E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-93-2 | Lithium | <5.40E-1 | ug/g dry | 5.40E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-95-4 | Magnesium | 9.12E-1 | ug/g dry | 8.34E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-96-5 | Manganese | 6.85E-2 | ug/g dry | 1.71E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-98-7 | Molybdenum | <1.39E-1 | ug/g dry | 1.39E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-02-0 | Nickel | <9.33E-2 | ug/g dry | 9.33E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7723-14-0 | Phosphorus | <1.03E0 | ug/g dry | 1.03E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-92-1 | Lead | <4.32E-1 | ug/g dry | 4.32E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7782-49-2 | Selenium | <1.95E0 | ug/g dry | 1.95E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-24-6 | Strontium | <5.22E-2 | ug/g dry | 5.22E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-28-0 | Thallium | <1.03E0 | ug/g dry | 1.03E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-62-2 | Vanadium | 3.42E-1 | ug/g dry | 4.53E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-66-6 | Zinc | <9.27E-2 | ug/g dry | 9.27E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-23-5 | Sodium | 1.86E2 | ug/g dry | 6.69E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-21-3 | Silicon | 1.71E1 | ug/g dry | 1.50E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7704-34-9 | Sulfur | 3.51E0 | ug/g dry | 3.08E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-32-6 | Titanium | 1.28E-1 | ug/g dry | 8.76E-3 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-67-7 | Zirconium | <1.50E-1 | ug/g dry | 1.50E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-22-4 | Silver | <7.71E-2 | ug/g dry | 7.71E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-15-5 | Rhenium | <1.52E-1 | ug/g dry | 1.52E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-36-0 | Antimony | <6.33E-1 | ug/g dry | 6.33E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| **HEIS No.** | **B1VJ58C** | | **Lab ID:** | **0805020-10** | | | |
| 7429-90-5 | Aluminum | 1.49E0 | ug/g dry | 8.59E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-38-2 | Arsenic | 4.90E-1 | ug/g dry | 3.60E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-42-8 | Boron | <1.94E0 | ug/g dry | 1.94E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-39-3 | Barium | 5.67E-2 | ug/g dry | 8.80E-3 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-41-7 | Beryllium | <2.84E-2 | ug/g dry | 2.84E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-69-9 | Bismuth | <1.88E-1 | ug/g dry | 1.88E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-70-2 | Calcium | 8.41E0 | ug/g dry | 3.87E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-43-9 | Cadmium | <2.69E-2 | ug/g dry | 2.69E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-48-4 | Cobalt | <9.61E-2 | ug/g dry | 9.61E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-47-3 | Chromium | <3.33E-2 | ug/g dry | 3.33E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-50-8 | Copper | 1.36E-1 | ug/g dry | 8.05E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-89-6 | Iron | 2.55E0 | ug/g dry | 1.42E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-09-7 | Potassium | 4.45E0 | ug/g dry | 2.33E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-93-2 | Lithium | <5.41E-1 | ug/g dry | 5.41E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-95-4 | Magnesium | 8.27E-1 | ug/g dry | 8.35E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-96-5 | Manganese | 8.02E-2 | ug/g dry | 1.71E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-98-7 | Molybdenum | 1.77E-1 | ug/g dry | 1.39E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-02-0 | Nickel | <9.34E-2 | ug/g dry | 9.34E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7723-14-0 | Phosphorus | 3.77E0 | ug/g dry | 1.03E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-92-1 | Lead | <4.32E-1 | ug/g dry | 4.32E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7782-49-2 | Selenium | <1.95E0 | ug/g dry | 1.95E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-24-6 | Strontium | <5.22E-2 | ug/g dry | 5.22E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |

# Total Metals by PNNL-AGG-ICP-AES/Water Extract

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ58C** | | **Lab ID:** | **0805020-10** | | | |
| 7440-28-0 | Thallium | <1.03E0 | ug/g dry | 1.03E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-62-2 | Vanadium | 2.46E-1 | ug/g dry | 4.53E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-66-6 | Zinc | <9.28E-2 | ug/g dry | 9.28E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-23-5 | Sodium | 4.50E2 | ug/g dry | 6.70E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-21-3 | Silicon | 1.52E1 | ug/g dry | 1.50E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7704-34-9 | Sulfur | 7.45E0 | ug/g dry | 3.08E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-32-6 | Titanium | 8.38E-2 | ug/g dry | 8.77E-3 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-67-7 | Zirconium | <1.50E-1 | ug/g dry | 1.50E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-22-4 | Silver | <7.72E-2 | ug/g dry | 7.72E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-15-5 | Rhenium | <1.52E-1 | ug/g dry | 1.52E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-36-0 | Antimony | <6.34E-1 | ug/g dry | 6.34E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| **HEIS No.** | **B1VJ58B** | | **Lab ID:** | **0805020-11** | | | |
| 7429-90-5 | Aluminum | 2.57E0 | ug/g dry | 8.63E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-38-2 | Arsenic | 7.70E-1 | ug/g dry | 3.62E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-42-8 | Boron | <1.95E0 | ug/g dry | 1.95E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-39-3 | Barium | 1.07E-1 | ug/g dry | 8.85E-3 | 7/07/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-41-7 | Beryllium | <2.86E-2 | ug/g dry | 2.86E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-69-9 | Bismuth | <1.89E-1 | ug/g dry | 1.89E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-70-2 | Calcium | 1.77E1 | ug/g dry | 3.89E-1 | 7/07/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-43-9 | Cadmium | <2.70E-2 | ug/g dry | 2.70E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-48-4 | Cobalt | <9.66E-2 | ug/g dry | 9.66E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-47-3 | Chromium | <3.35E-2 | ug/g dry | 3.35E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-50-8 | Copper | 1.24E-1 | ug/g dry | 8.09E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-89-6 | Iron | 3.90E0 | ug/g dry | 1.43E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-09-7 | Potassium | 4.88E0 | ug/g dry | 2.34E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-93-2 | Lithium | <5.43E-1 | ug/g dry | 5.43E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-95-4 | Magnesium | 1.58E0 | ug/g dry | 8.39E-2 | 7/07/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-96-5 | Manganese | 1.65E-1 | ug/g dry | 1.72E-2 | 7/07/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-98-7 | Molybdenum | <1.40E-1 | ug/g dry | 1.40E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-02-0 | Nickel | <9.39E-2 | ug/g dry | 9.39E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7723-14-0 | Phosphorus | 5.11E0 | ug/g dry | 1.04E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-92-1 | Lead | <4.35E-1 | ug/g dry | 4.35E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7782-49-2 | Selenium | <1.96E0 | ug/g dry | 1.96E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-24-6 | Strontium | <5.25E-2 | ug/g dry | 5.25E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-28-0 | Thallium | <1.03E0 | ug/g dry | 1.03E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-62-2 | Vanadium | 3.58E-1 | ug/g dry | 4.56E-2 | 7/07/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-66-6 | Zinc | <9.33E-2 | ug/g dry | 9.33E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-23-5 | Sodium | 4.95E2 | ug/g dry | 6.73E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-21-3 | Silicon | 2.03E1 | ug/g dry | 1.51E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7704-34-9 | Sulfur | 7.02E0 | ug/g dry | 3.09E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-32-6 | Titanium | 3.05E-1 | ug/g dry | 8.81E-3 | 7/07/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-67-7 | Zirconium | <1.51E-1 | ug/g dry | 1.51E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-22-4 | Silver | <7.76E-2 | ug/g dry | 7.76E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-15-5 | Rhenium | <1.53E-1 | ug/g dry | 1.53E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-36-0 | Antimony | <6.37E-1 | ug/g dry | 6.37E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| **HEIS No.** | **B1VJ58A** | | **Lab ID:** | **0805020-12** | | | |
| 7429-90-5 | Aluminum | 2.16E0 | ug/g dry | 8.58E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-38-2 | Arsenic | 8.88E-1 | ug/g dry | 3.60E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |

# Total Metals by PNNL-AGG-ICP-AES/Water Extract

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ58A** | | **Lab ID:** | **0805020-12** | | | |
| 7440-42-8 | Boron | <1.94E0 | ug/g dry | 1.94E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-39-3 | Barium | 5.95E-2 | ug/g dry | 8.78E-3 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-41-7 | Beryllium | <2.84E-2 | ug/g dry | 2.84E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-69-9 | Bismuth | <1.88E-1 | ug/g dry | 1.88E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-70-2 | Calcium | 7.34E0 | ug/g dry | 3.87E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-43-9 | Cadmium | <2.69E-2 | ug/g dry | 2.69E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-48-4 | Cobalt | <9.59E-2 | ug/g dry | 9.59E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-47-3 | Chromium | <3.33E-2 | ug/g dry | 3.33E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-50-8 | Copper | 1.42E-1 | ug/g dry | 8.04E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-89-6 | Iron | 3.59E0 | ug/g dry | 1.42E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-09-7 | Potassium | 4.56E0 | ug/g dry | 2.33E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-93-2 | Lithium | <5.40E-1 | ug/g dry | 5.40E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-95-4 | Magnesium | 9.08E-1 | ug/g dry | 8.34E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-96-5 | Manganese | 9.41E-2 | ug/g dry | 1.71E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-98-7 | Molybdenum | <1.39E-1 | ug/g dry | 1.39E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-02-0 | Nickel | <9.32E-2 | ug/g dry | 9.32E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7723-14-0 | Phosphorus | 5.74E0 | ug/g dry | 1.03E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-92-1 | Lead | <4.32E-1 | ug/g dry | 4.32E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7782-49-2 | Selenium | <1.95E0 | ug/g dry | 1.95E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-24-6 | Strontium | <5.22E-2 | ug/g dry | 5.22E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-28-0 | Thallium | <1.03E0 | ug/g dry | 1.03E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-62-2 | Vanadium | 3.98E-1 | ug/g dry | 4.53E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-66-6 | Zinc | <9.26E-2 | ug/g dry | 9.26E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-23-5 | Sodium | 4.62E2 | ug/g dry | 6.69E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-21-3 | Silicon | 2.03E1 | ug/g dry | 1.50E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7704-34-9 | Sulfur | 7.09E0 | ug/g dry | 3.07E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-32-6 | Titanium | 1.41E-1 | ug/g dry | 8.75E-3 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-67-7 | Zirconium | <1.50E-1 | ug/g dry | 1.50E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-22-4 | Silver | <7.71E-2 | ug/g dry | 7.71E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-15-5 | Rhenium | <1.52E-1 | ug/g dry | 1.52E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-36-0 | Antimony | <6.33E-1 | ug/g dry | 6.33E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| **HEIS No.** | **B1VJ59C** | | **Lab ID:** | **0805020-14** | | | |
| 7429-90-5 | Aluminum | 2.61E-1 | ug/g dry | 8.58E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-38-2 | Arsenic | <3.60E-1 | ug/g dry | 3.60E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-42-8 | Boron | <1.94E0 | ug/g dry | 1.94E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-39-3 | Barium | 2.63E-2 | ug/g dry | 8.79E-3 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-41-7 | Beryllium | <2.84E-2 | ug/g dry | 2.84E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-69-9 | Bismuth | <1.88E-1 | ug/g dry | 1.88E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-70-2 | Calcium | 1.66E1 | ug/g dry | 3.87E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-43-9 | Cadmium | <2.69E-2 | ug/g dry | 2.69E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-48-4 | Cobalt | <9.60E-2 | ug/g dry | 9.60E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-47-3 | Chromium | <3.33E-2 | ug/g dry | 3.33E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-50-8 | Copper | <8.04E-2 | ug/g dry | 8.04E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-89-6 | Iron | <1.42E-1 | ug/g dry | 1.42E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-09-7 | Potassium | 7.47E0 | ug/g dry | 2.33E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-93-2 | Lithium | <5.40E-1 | ug/g dry | 5.40E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-95-4 | Magnesium | 5.60E0 | ug/g dry | 8.34E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-96-5 | Manganese | <1.71E-2 | ug/g dry | 1.71E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |

# Total Metals by PNNL-AGG-ICP-AES/Water Extract

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ59C** | | **Lab ID:** | **0805020-14** | | | |
| 7439-98-7 | Molybdenum | <1.39E-1 | ug/g dry | 1.39E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-02-0 | Nickel | <9.33E-2 | ug/g dry | 9.33E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7723-14-0 | Phosphorus | <1.03E0 | ug/g dry | 1.03E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-92-1 | Lead | <4.32E-1 | ug/g dry | 4.32E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7782-49-2 | Selenium | <1.95E0 | ug/g dry | 1.95E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-24-6 | Strontium | 8.64E-2 | ug/g dry | 5.22E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-28-0 | Thallium | <1.03E0 | ug/g dry | 1.03E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-62-2 | Vanadium | <4.53E-2 | ug/g dry | 4.53E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-66-6 | Zinc | <9.27E-2 | ug/g dry | 9.27E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-23-5 | Sodium | 2.03E1 | ug/g dry | 6.69E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-21-3 | Silicon | 8.01E0 | ug/g dry | 1.50E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7704-34-9 | Sulfur | 1.01E1 | ug/g dry | 3.08E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-32-6 | Titanium | <8.76E-3 | ug/g dry | 8.76E-3 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-67-7 | Zirconium | <1.50E-1 | ug/g dry | 1.50E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-22-4 | Silver | <7.71E-2 | ug/g dry | 7.71E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-15-5 | Rhenium | <1.52E-1 | ug/g dry | 1.52E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-36-0 | Antimony | <6.33E-1 | ug/g dry | 6.33E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| **HEIS No.** | **B1VJ59B** | | **Lab ID:** | **0805020-15** | | | |
| 7429-90-5 | Aluminum | 2.12E-1 | ug/g dry | 8.59E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-38-2 | Arsenic | <3.60E-1 | ug/g dry | 3.60E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-42-8 | Boron | <1.94E0 | ug/g dry | 1.94E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-39-3 | Barium | 1.16E-2 | ug/g dry | 8.80E-3 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-41-7 | Beryllium | <2.84E-2 | ug/g dry | 2.84E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-69-9 | Bismuth | <1.88E-1 | ug/g dry | 1.88E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-70-2 | Calcium | 6.98E0 | ug/g dry | 3.87E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-43-9 | Cadmium | <2.69E-2 | ug/g dry | 2.69E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-48-4 | Cobalt | <9.61E-2 | ug/g dry | 9.61E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-47-3 | Chromium | <3.33E-2 | ug/g dry | 3.33E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-50-8 | Copper | <8.05E-2 | ug/g dry | 8.05E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-89-6 | Iron | 1.67E-1 | ug/g dry | 1.42E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-09-7 | Potassium | 4.66E0 | ug/g dry | 2.33E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-93-2 | Lithium | <5.40E-1 | ug/g dry | 5.40E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-95-4 | Magnesium | 2.13E0 | ug/g dry | 8.35E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-96-5 | Manganese | <1.71E-2 | ug/g dry | 1.71E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-98-7 | Molybdenum | <1.39E-1 | ug/g dry | 1.39E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-02-0 | Nickel | <9.34E-2 | ug/g dry | 9.34E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7723-14-0 | Phosphorus | <1.03E0 | ug/g dry | 1.03E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-92-1 | Lead | <4.32E-1 | ug/g dry | 4.32E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7782-49-2 | Selenium | <1.95E0 | ug/g dry | 1.95E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-24-6 | Strontium | <5.22E-2 | ug/g dry | 5.22E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-28-0 | Thallium | <1.03E0 | ug/g dry | 1.03E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-62-2 | Vanadium | <4.53E-2 | ug/g dry | 4.53E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-66-6 | Zinc | <9.28E-2 | ug/g dry | 9.28E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-23-5 | Sodium | 1.31E1 | ug/g dry | 6.69E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-21-3 | Silicon | 8.40E0 | ug/g dry | 1.50E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7704-34-9 | Sulfur | 6.19E0 | ug/g dry | 3.08E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-32-6 | Titanium | <8.77E-3 | ug/g dry | 8.77E-3 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-67-7 | Zirconium | <1.50E-1 | ug/g dry | 1.50E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |

# Total Metals by PNNL-AGG-ICP-AES/Water Extract

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ59B** | | **Lab ID:** | **0805020-15** | | | |
| 7440-22-4 | Silver | <7.72E-2 | ug/g dry | 7.72E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-15-5 | Rhenium | <1.52E-1 | ug/g dry | 1.52E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-36-0 | Antimony | <6.33E-1 | ug/g dry | 6.33E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| **HEIS No.** | **B1VJ59A** | | **Lab ID:** | **0805020-16** | | | |
| 7429-90-5 | Aluminum | 2.02E-1 | ug/g dry | 8.65E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-38-2 | Arsenic | <3.63E-1 | ug/g dry | 3.63E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-42-8 | Boron | <1.96E0 | ug/g dry | 1.96E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-39-3 | Barium | 1.28E-2 | ug/g dry | 8.86E-3 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-41-7 | Beryllium | <2.86E-2 | ug/g dry | 2.86E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-69-9 | Bismuth | <1.90E-1 | ug/g dry | 1.90E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-70-2 | Calcium | 6.74E0 | ug/g dry | 3.90E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-43-9 | Cadmium | <2.71E-2 | ug/g dry | 2.71E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-48-4 | Cobalt | <9.67E-2 | ug/g dry | 9.67E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-47-3 | Chromium | <3.36E-2 | ug/g dry | 3.36E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-50-8 | Copper | <8.10E-2 | ug/g dry | 8.10E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-89-6 | Iron | 1.45E-1 | ug/g dry | 1.43E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-09-7 | Potassium | 4.74E0 | ug/g dry | 2.35E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-93-2 | Lithium | <5.44E-1 | ug/g dry | 5.44E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-95-4 | Magnesium | 2.01E0 | ug/g dry | 8.40E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-96-5 | Manganese | <1.73E-2 | ug/g dry | 1.73E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-98-7 | Molybdenum | <1.40E-1 | ug/g dry | 1.40E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-02-0 | Nickel | <9.40E-2 | ug/g dry | 9.40E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7723-14-0 | Phosphorus | <1.04E0 | ug/g dry | 1.04E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-92-1 | Lead | <4.35E-1 | ug/g dry | 4.35E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7782-49-2 | Selenium | <1.96E0 | ug/g dry | 1.96E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-24-6 | Strontium | <5.26E-2 | ug/g dry | 5.26E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-28-0 | Thallium | <1.03E0 | ug/g dry | 1.03E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-62-2 | Vanadium | <4.56E-2 | ug/g dry | 4.56E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-66-6 | Zinc | <9.34E-2 | ug/g dry | 9.34E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-23-5 | Sodium | 1.18E1 | ug/g dry | 6.74E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-21-3 | Silicon | 7.83E0 | ug/g dry | 1.51E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7704-34-9 | Sulfur | 5.20E0 | ug/g dry | 3.10E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-32-6 | Titanium | <8.83E-3 | ug/g dry | 8.83E-3 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-67-7 | Zirconium | <1.51E-1 | ug/g dry | 1.51E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-22-4 | Silver | <7.77E-2 | ug/g dry | 7.77E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-15-5 | Rhenium | <1.53E-1 | ug/g dry | 1.53E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-36-0 | Antimony | <6.38E-1 | ug/g dry | 6.38E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| **HEIS No.** | **B1VJ60C** | | **Lab ID:** | **0805020-18** | | | |
| 7429-90-5 | Aluminum | 1.10E-1 | ug/g dry | 8.58E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-38-2 | Arsenic | <3.60E-1 | ug/g dry | 3.60E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-42-8 | Boron | <1.94E0 | ug/g dry | 1.94E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-39-3 | Barium | 2.67E-2 | ug/g dry | 8.79E-3 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-41-7 | Beryllium | <2.84E-2 | ug/g dry | 2.84E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-69-9 | Bismuth | <1.88E-1 | ug/g dry | 1.88E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-70-2 | Calcium | 2.13E1 | ug/g dry | 3.87E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-43-9 | Cadmium | <2.69E-2 | ug/g dry | 2.69E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-48-4 | Cobalt | <9.60E-2 | ug/g dry | 9.60E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-47-3 | Chromium | <3.33E-2 | ug/g dry | 3.33E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |

# Total Metals by PNNL-AGG-ICP-AES/Water Extract

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ60C** | | **Lab ID:** | **0805020-18** | | | |
| 7440-50-8 | Copper | <8.04E-2 | ug/g dry | 8.04E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-89-6 | Iron | <1.42E-1 | ug/g dry | 1.42E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-09-7 | Potassium | 1.34E1 | ug/g dry | 2.33E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-93-2 | Lithium | <5.40E-1 | ug/g dry | 5.40E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-95-4 | Magnesium | 8.45E0 | ug/g dry | 8.34E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-96-5 | Manganese | 2.85E-2 | ug/g dry | 1.71E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-98-7 | Molybdenum | 2.32E-1 | ug/g dry | 1.39E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-02-0 | Nickel | <9.33E-2 | ug/g dry | 9.33E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7723-14-0 | Phosphorus | <1.03E0 | ug/g dry | 1.03E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-92-1 | Lead | <4.32E-1 | ug/g dry | 4.32E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7782-49-2 | Selenium | <1.95E0 | ug/g dry | 1.95E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-24-6 | Strontium | 1.15E-1 | ug/g dry | 5.22E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-28-0 | Thallium | <1.03E0 | ug/g dry | 1.03E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-62-2 | Vanadium | <4.53E-2 | ug/g dry | 4.53E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-66-6 | Zinc | <9.27E-2 | ug/g dry | 9.27E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-23-5 | Sodium | 2.83E1 | ug/g dry | 6.69E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-21-3 | Silicon | 5.50E0 | ug/g dry | 1.50E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7704-34-9 | Sulfur | 2.54E1 | ug/g dry | 3.07E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-32-6 | Titanium | <8.76E-3 | ug/g dry | 8.76E-3 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-67-7 | Zirconium | <1.50E-1 | ug/g dry | 1.50E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-22-4 | Silver | <7.71E-2 | ug/g dry | 7.71E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-15-5 | Rhenium | <1.52E-1 | ug/g dry | 1.52E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-36-0 | Antimony | <6.33E-1 | ug/g dry | 6.33E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| **HEIS No.** | **B1VJ60B** | | **Lab ID:** | **0805020-19** | | | |
| 7429-90-5 | Aluminum | <8.58E-2 | ug/g dry | 8.58E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-38-2 | Arsenic | <3.60E-1 | ug/g dry | 3.60E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-42-8 | Boron | <1.94E0 | ug/g dry | 1.94E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-39-3 | Barium | 2.10E-2 | ug/g dry | 8.80E-3 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-41-7 | Beryllium | <2.84E-2 | ug/g dry | 2.84E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-69-9 | Bismuth | <1.88E-1 | ug/g dry | 1.88E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-70-2 | Calcium | 2.21E1 | ug/g dry | 3.87E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-43-9 | Cadmium | <2.69E-2 | ug/g dry | 2.69E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-48-4 | Cobalt | <9.61E-2 | ug/g dry | 9.61E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-47-3 | Chromium | <3.33E-2 | ug/g dry | 3.33E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-50-8 | Copper | <8.04E-2 | ug/g dry | 8.04E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-89-6 | Iron | <1.42E-1 | ug/g dry | 1.42E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-09-7 | Potassium | 1.07E1 | ug/g dry | 2.33E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-93-2 | Lithium | <5.40E-1 | ug/g dry | 5.40E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-95-4 | Magnesium | 9.22E0 | ug/g dry | 8.34E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-96-5 | Manganese | <1.71E-2 | ug/g dry | 1.71E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-98-7 | Molybdenum | <1.39E-1 | ug/g dry | 1.39E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-02-0 | Nickel | <9.34E-2 | ug/g dry | 9.34E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7723-14-0 | Phosphorus | <1.03E0 | ug/g dry | 1.03E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-92-1 | Lead | <4.32E-1 | ug/g dry | 4.32E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7782-49-2 | Selenium | <1.95E0 | ug/g dry | 1.95E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-24-6 | Strontium | 1.20E-1 | ug/g dry | 5.22E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-28-0 | Thallium | <1.03E0 | ug/g dry | 1.03E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-62-2 | Vanadium | <4.53E-2 | ug/g dry | 4.53E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |

# Total Metals by PNNL-AGG-ICP-AES/Water Extract

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ60B** | | **Lab ID:** | **0805020-19** | | | |
| 7440-66-6 | Zinc | <9.28E-2 | ug/g dry | 9.28E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-23-5 | Sodium | 1.96E1 | ug/g dry | 6.69E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-21-3 | Silicon | 7.95E0 | ug/g dry | 1.50E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7704-34-9 | Sulfur | 3.34E1 | ug/g dry | 3.08E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-32-6 | Titanium | <8.77E-3 | ug/g dry | 8.77E-3 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-67-7 | Zirconium | <1.50E-1 | ug/g dry | 1.50E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-22-4 | Silver | <7.71E-2 | ug/g dry | 7.71E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-15-5 | Rhenium | <1.52E-1 | ug/g dry | 1.52E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-36-0 | Antimony | <6.33E-1 | ug/g dry | 6.33E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| **HEIS No.** | **B1VJ60A** | | **Lab ID:** | **0805020-20** | | | |
| 7429-90-5 | Aluminum | 2.63E-1 | ug/g dry | 8.58E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-38-2 | Arsenic | <3.60E-1 | ug/g dry | 3.60E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-42-8 | Boron | <1.94E0 | ug/g dry | 1.94E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-39-3 | Barium | 1.47E-2 | ug/g dry | 8.79E-3 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-41-7 | Beryllium | <2.84E-2 | ug/g dry | 2.84E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-69-9 | Bismuth | <1.88E-1 | ug/g dry | 1.88E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-70-2 | Calcium | 1.27E1 | ug/g dry | 3.87E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-43-9 | Cadmium | <2.69E-2 | ug/g dry | 2.69E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-48-4 | Cobalt | <9.60E-2 | ug/g dry | 9.60E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-47-3 | Chromium | <3.33E-2 | ug/g dry | 3.33E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-50-8 | Copper | <8.04E-2 | ug/g dry | 8.04E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-89-6 | Iron | <1.42E-1 | ug/g dry | 1.42E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-09-7 | Potassium | 8.44E0 | ug/g dry | 2.33E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-93-2 | Lithium | <5.40E-1 | ug/g dry | 5.40E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-95-4 | Magnesium | 5.33E0 | ug/g dry | 8.34E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-96-5 | Manganese | <1.71E-2 | ug/g dry | 1.71E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-98-7 | Molybdenum | <1.39E-1 | ug/g dry | 1.39E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-02-0 | Nickel | <9.33E-2 | ug/g dry | 9.33E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7723-14-0 | Phosphorus | <1.03E0 | ug/g dry | 1.03E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-92-1 | Lead | <4.32E-1 | ug/g dry | 4.32E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7782-49-2 | Selenium | <1.95E0 | ug/g dry | 1.95E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-24-6 | Strontium | 7.19E-2 | ug/g dry | 5.22E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-28-0 | Thallium | <1.03E0 | ug/g dry | 1.03E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-62-2 | Vanadium | <4.53E-2 | ug/g dry | 4.53E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-66-6 | Zinc | <9.27E-2 | ug/g dry | 9.27E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-23-5 | Sodium | 1.59E1 | ug/g dry | 6.69E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-21-3 | Silicon | 7.25E0 | ug/g dry | 1.50E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7704-34-9 | Sulfur | 1.92E1 | ug/g dry | 3.08E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-32-6 | Titanium | <8.76E-3 | ug/g dry | 8.76E-3 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-67-7 | Zirconium | <1.50E-1 | ug/g dry | 1.50E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-22-4 | Silver | <7.71E-2 | ug/g dry | 7.71E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-15-5 | Rhenium | <1.52E-1 | ug/g dry | 1.52E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-36-0 | Antimony | <6.33E-1 | ug/g dry | 6.33E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| **HEIS No.** | **B1VJ61C** | | **Lab ID:** | **0805020-22** | | | |
| 7429-90-5 | Aluminum | 1.72E-1 | ug/g dry | 8.58E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-38-2 | Arsenic | <3.60E-1 | ug/g dry | 3.60E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-42-8 | Boron | <1.94E0 | ug/g dry | 1.94E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-39-3 | Barium | 1.85E-2 | ug/g dry | 8.79E-3 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |

# Total Metals by PNNL-AGG-ICP-AES/Water Extract

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ61C** | | **Lab ID:** | **0805020-22** | | | |
| 7440-41-7 | Beryllium | <2.84E-2 | ug/g dry | 2.84E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-69-9 | Bismuth | <1.88E-1 | ug/g dry | 1.88E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-70-2 | Calcium | 1.62E1 | ug/g dry | 3.87E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-43-9 | Cadmium | <2.69E-2 | ug/g dry | 2.69E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-48-4 | Cobalt | <9.60E-2 | ug/g dry | 9.60E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-47-3 | Chromium | <3.33E-2 | ug/g dry | 3.33E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-50-8 | Copper | <8.04E-2 | ug/g dry | 8.04E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-89-6 | Iron | <1.42E-1 | ug/g dry | 1.42E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-09-7 | Potassium | 9.76E0 | ug/g dry | 2.33E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-93-2 | Lithium | <5.40E-1 | ug/g dry | 5.40E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-95-4 | Magnesium | 7.32E0 | ug/g dry | 8.34E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-96-5 | Manganese | <1.71E-2 | ug/g dry | 1.71E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-98-7 | Molybdenum | <1.39E-1 | ug/g dry | 1.39E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-02-0 | Nickel | <9.33E-2 | ug/g dry | 9.33E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7723-14-0 | Phosphorus | <1.03E0 | ug/g dry | 1.03E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-92-1 | Lead | <4.32E-1 | ug/g dry | 4.32E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7782-49-2 | Selenium | <1.95E0 | ug/g dry | 1.95E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-24-6 | Strontium | 9.80E-2 | ug/g dry | 5.22E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-28-0 | Thallium | <1.03E0 | ug/g dry | 1.03E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-62-2 | Vanadium | <4.53E-2 | ug/g dry | 4.53E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-66-6 | Zinc | <9.27E-2 | ug/g dry | 9.27E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-23-5 | Sodium | 1.94E1 | ug/g dry | 6.69E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-21-3 | Silicon | 6.98E0 | ug/g dry | 1.50E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7704-34-9 | Sulfur | 2.12E1 | ug/g dry | 3.07E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-32-6 | Titanium | <8.76E-3 | ug/g dry | 8.76E-3 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-67-7 | Zirconium | <1.50E-1 | ug/g dry | 1.50E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-22-4 | Silver | <7.71E-2 | ug/g dry | 7.71E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-15-5 | Rhenium | <1.52E-1 | ug/g dry | 1.52E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-36-0 | Antimony | <6.33E-1 | ug/g dry | 6.33E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| **HEIS No.** | **B1VJ61B** | | **Lab ID:** | **0805020-23** | | | |
| 7429-90-5 | Aluminum | 1.96E-1 | ug/g dry | 8.67E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-38-2 | Arsenic | <3.64E-1 | ug/g dry | 3.64E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-42-8 | Boron | <1.96E0 | ug/g dry | 1.96E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-39-3 | Barium | 2.37E-2 | ug/g dry | 8.88E-3 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-41-7 | Beryllium | <2.87E-2 | ug/g dry | 2.87E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-69-9 | Bismuth | <1.90E-1 | ug/g dry | 1.90E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-70-2 | Calcium | 1.40E1 | ug/g dry | 3.91E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-43-9 | Cadmium | <2.72E-2 | ug/g dry | 2.72E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-48-4 | Cobalt | <9.70E-2 | ug/g dry | 9.70E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-47-3 | Chromium | <3.36E-2 | ug/g dry | 3.36E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-50-8 | Copper | <8.12E-2 | ug/g dry | 8.12E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-89-6 | Iron | <1.44E-1 | ug/g dry | 1.44E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-09-7 | Potassium | 8.46E0 | ug/g dry | 2.35E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-93-2 | Lithium | <5.45E-1 | ug/g dry | 5.45E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-95-4 | Magnesium | 6.20E0 | ug/g dry | 8.42E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-96-5 | Manganese | <1.73E-2 | ug/g dry | 1.73E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-98-7 | Molybdenum | <1.41E-1 | ug/g dry | 1.41E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-02-0 | Nickel | <9.42E-2 | ug/g dry | 9.42E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |

# Total Metals by PNNL-AGG-ICP-AES/Water Extract

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ61B** | | **Lab ID:** | **0805020-23** | | | |
| 7723-14-0 | Phosphorus | <1.04E0 | ug/g dry | 1.04E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-92-1 | Lead | <4.36E-1 | ug/g dry | 4.36E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7782-49-2 | Selenium | <1.97E0 | ug/g dry | 1.97E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-24-6 | Strontium | 8.66E-2 | ug/g dry | 5.27E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-28-0 | Thallium | <1.04E0 | ug/g dry | 1.04E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-62-2 | Vanadium | <4.58E-2 | ug/g dry | 4.58E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-66-6 | Zinc | <9.36E-2 | ug/g dry | 9.36E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-23-5 | Sodium | 1.57E1 | ug/g dry | 6.76E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-21-3 | Silicon | 7.20E0 | ug/g dry | 1.52E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7704-34-9 | Sulfur | 1.87E1 | ug/g dry | 3.11E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-32-6 | Titanium | <8.85E-3 | ug/g dry | 8.85E-3 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-67-7 | Zirconium | <1.52E-1 | ug/g dry | 1.52E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-22-4 | Silver | <7.79E-2 | ug/g dry | 7.79E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-15-5 | Rhenium | <1.53E-1 | ug/g dry | 1.53E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-36-0 | Antimony | <6.39E-1 | ug/g dry | 6.39E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| **HEIS No.** | **B1VJ61A** | | **Lab ID:** | **0805020-24** | | | |
| 7429-90-5 | Aluminum | 2.04E-1 | ug/g dry | 8.91E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-38-2 | Arsenic | <3.74E-1 | ug/g dry | 3.74E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-42-8 | Boron | <2.01E0 | ug/g dry | 2.01E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-39-3 | Barium | 1.95E-2 | ug/g dry | 9.12E-3 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-41-7 | Beryllium | <2.95E-2 | ug/g dry | 2.95E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-69-9 | Bismuth | <1.95E-1 | ug/g dry | 1.95E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-70-2 | Calcium | 1.39E1 | ug/g dry | 4.02E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-43-9 | Cadmium | <2.79E-2 | ug/g dry | 2.79E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-48-4 | Cobalt | <9.97E-2 | ug/g dry | 9.97E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-47-3 | Chromium | <3.46E-2 | ug/g dry | 3.46E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-50-8 | Copper | <8.35E-2 | ug/g dry | 8.35E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-89-6 | Iron | <1.48E-1 | ug/g dry | 1.48E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-09-7 | Potassium | 7.57E0 | ug/g dry | 2.42E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-93-2 | Lithium | <5.61E-1 | ug/g dry | 5.61E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-95-4 | Magnesium | 6.31E0 | ug/g dry | 8.66E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-96-5 | Manganese | <1.78E-2 | ug/g dry | 1.78E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-98-7 | Molybdenum | <1.44E-1 | ug/g dry | 1.44E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-02-0 | Nickel | <9.68E-2 | ug/g dry | 9.68E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7723-14-0 | Phosphorus | <1.07E0 | ug/g dry | 1.07E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-92-1 | Lead | <4.48E-1 | ug/g dry | 4.48E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7782-49-2 | Selenium | <2.02E0 | ug/g dry | 2.02E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-24-6 | Strontium | 8.52E-2 | ug/g dry | 5.42E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-28-0 | Thallium | <1.07E0 | ug/g dry | 1.07E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-62-2 | Vanadium | <4.70E-2 | ug/g dry | 4.70E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-66-6 | Zinc | <9.62E-2 | ug/g dry | 9.62E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-23-5 | Sodium | 1.46E1 | ug/g dry | 6.94E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-21-3 | Silicon | 7.73E0 | ug/g dry | 1.56E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7704-34-9 | Sulfur | 1.96E1 | ug/g dry | 3.19E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-32-6 | Titanium | <9.09E-3 | ug/g dry | 9.09E-3 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-67-7 | Zirconium | <1.56E-1 | ug/g dry | 1.56E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-22-4 | Silver | <8.00E-2 | ug/g dry | 8.00E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-15-5 | Rhenium | <1.58E-1 | ug/g dry | 1.58E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |

# Total Metals by PNNL-AGG-ICP-AES/Water Extract

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ61A** | | **Lab ID:** | **0805020-24** | | | |
| 7440-36-0 | Antimony | <6.57E-1 | ug/g dry | 6.57E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| **HEIS No.** | **B1VJ62C** | | **Lab ID:** | **0805020-26** | | | |
| 7429-90-5 | Aluminum | <8.58E-2 | ug/g dry | 8.58E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-38-2 | Arsenic | <3.60E-1 | ug/g dry | 3.60E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-42-8 | Boron | <1.94E0 | ug/g dry | 1.94E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-39-3 | Barium | 3.01E-2 | ug/g dry | 8.79E-3 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-41-7 | Beryllium | <2.84E-2 | ug/g dry | 2.84E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-69-9 | Bismuth | <1.88E-1 | ug/g dry | 1.88E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-70-2 | Calcium | 5.98E1 | ug/g dry | 3.87E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-43-9 | Cadmium | <2.69E-2 | ug/g dry | 2.69E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-48-4 | Cobalt | <9.60E-2 | ug/g dry | 9.60E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-47-3 | Chromium | <3.33E-2 | ug/g dry | 3.33E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-50-8 | Copper | <8.04E-2 | ug/g dry | 8.04E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-89-6 | Iron | <1.42E-1 | ug/g dry | 1.42E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-09-7 | Potassium | 1.79E1 | ug/g dry | 2.33E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-93-2 | Lithium | <5.40E-1 | ug/g dry | 5.40E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-95-4 | Magnesium | 2.34E1 | ug/g dry | 8.34E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-96-5 | Manganese | 8.01E-2 | ug/g dry | 1.71E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-98-7 | Molybdenum | 1.82E-1 | ug/g dry | 1.39E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-02-0 | Nickel | <9.33E-2 | ug/g dry | 9.33E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7723-14-0 | Phosphorus | <1.03E0 | ug/g dry | 1.03E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-92-1 | Lead | <4.32E-1 | ug/g dry | 4.32E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7782-49-2 | Selenium | <1.95E0 | ug/g dry | 1.95E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-24-6 | Strontium | 2.95E-1 | ug/g dry | 5.22E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-28-0 | Thallium | <1.03E0 | ug/g dry | 1.03E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-62-2 | Vanadium | <4.53E-2 | ug/g dry | 4.53E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-66-6 | Zinc | <9.27E-2 | ug/g dry | 9.27E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-23-5 | Sodium | 3.19E1 | ug/g dry | 6.69E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-21-3 | Silicon | 7.31E0 | ug/g dry | 1.50E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7704-34-9 | Sulfur | 5.45E1 | ug/g dry | 3.07E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-32-6 | Titanium | <8.76E-3 | ug/g dry | 8.76E-3 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-67-7 | Zirconium | <1.50E-1 | ug/g dry | 1.50E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-22-4 | Silver | <7.71E-2 | ug/g dry | 7.71E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-15-5 | Rhenium | <1.52E-1 | ug/g dry | 1.52E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-36-0 | Antimony | <6.33E-1 | ug/g dry | 6.33E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| **HEIS No.** | **B1VJ62B** | | **Lab ID:** | **0805020-27** | | | |
| 7429-90-5 | Aluminum | <8.59E-2 | ug/g dry | 8.59E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-38-2 | Arsenic | <3.60E-1 | ug/g dry | 3.60E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-42-8 | Boron | <1.94E0 | ug/g dry | 1.94E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-39-3 | Barium | 3.50E-2 | ug/g dry | 8.80E-3 | 7/07/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-41-7 | Beryllium | <2.84E-2 | ug/g dry | 2.84E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-69-9 | Bismuth | <1.88E-1 | ug/g dry | 1.88E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-70-2 | Calcium | 4.11E1 | ug/g dry | 3.87E-1 | 7/07/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-43-9 | Cadmium | <2.69E-2 | ug/g dry | 2.69E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-48-4 | Cobalt | <9.61E-2 | ug/g dry | 9.61E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-47-3 | Chromium | <3.33E-2 | ug/g dry | 3.33E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-50-8 | Copper | <8.05E-2 | ug/g dry | 8.05E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-89-6 | Iron | <1.42E-1 | ug/g dry | 1.42E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |

# Total Metals by PNNL-AGG-ICP-AES/Water Extract

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ62B** | | **Lab ID:** | **0805020-27** | | | |
| 7440-09-7 | Potassium | 1.23E1 | ug/g dry | 2.33E0 | 7/07/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-93-2 | Lithium | <5.40E-1 | ug/g dry | 5.40E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-95-4 | Magnesium | 1.59E1 | ug/g dry | 8.35E-2 | 7/07/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-96-5 | Manganese | <1.71E-2 | ug/g dry | 1.71E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-98-7 | Molybdenum | <1.39E-1 | ug/g dry | 1.39E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-02-0 | Nickel | <9.34E-2 | ug/g dry | 9.34E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7723-14-0 | Phosphorus | <1.03E0 | ug/g dry | 1.03E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-92-1 | Lead | <4.32E-1 | ug/g dry | 4.32E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7782-49-2 | Selenium | <1.95E0 | ug/g dry | 1.95E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-24-6 | Strontium | 1.93E-1 | ug/g dry | 5.22E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-28-0 | Thallium | <1.03E0 | ug/g dry | 1.03E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-62-2 | Vanadium | <4.53E-2 | ug/g dry | 4.53E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-66-6 | Zinc | <9.28E-2 | ug/g dry | 9.28E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-23-5 | Sodium | 1.99E1 | ug/g dry | 6.70E-1 | 7/07/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-21-3 | Silicon | 8.60E0 | ug/g dry | 1.50E0 | 7/07/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7704-34-9 | Sulfur | 4.03E1 | ug/g dry | 3.08E0 | 7/07/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-32-6 | Titanium | <8.77E-3 | ug/g dry | 8.77E-3 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-67-7 | Zirconium | <1.50E-1 | ug/g dry | 1.50E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-22-4 | Silver | <7.72E-2 | ug/g dry | 7.72E-2 | 7/07/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-15-5 | Rhenium | <1.52E-1 | ug/g dry | 1.52E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-36-0 | Antimony | <6.34E-1 | ug/g dry | 6.34E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| **HEIS No.** | **B1VJ62A** | | **Lab ID:** | **0805020-28** | | | |
| 7429-90-5 | Aluminum | <8.59E-2 | ug/g dry | 8.59E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-38-2 | Arsenic | <3.61E-1 | ug/g dry | 3.61E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-42-8 | Boron | <1.94E0 | ug/g dry | 1.94E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-39-3 | Barium | 2.41E-2 | ug/g dry | 8.80E-3 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-41-7 | Beryllium | <2.85E-2 | ug/g dry | 2.85E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-69-9 | Bismuth | <1.88E-1 | ug/g dry | 1.88E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-70-2 | Calcium | 4.16E1 | ug/g dry | 3.88E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-43-9 | Cadmium | <2.69E-2 | ug/g dry | 2.69E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-48-4 | Cobalt | <9.62E-2 | ug/g dry | 9.62E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-47-3 | Chromium | <3.34E-2 | ug/g dry | 3.34E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-50-8 | Copper | <8.05E-2 | ug/g dry | 8.05E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-89-6 | Iron | <1.42E-1 | ug/g dry | 1.42E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-09-7 | Potassium | 1.20E1 | ug/g dry | 2.33E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-93-2 | Lithium | <5.41E-1 | ug/g dry | 5.41E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-95-4 | Magnesium | 1.67E1 | ug/g dry | 8.35E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-96-5 | Manganese | <1.72E-2 | ug/g dry | 1.72E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-98-7 | Molybdenum | <1.39E-1 | ug/g dry | 1.39E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-02-0 | Nickel | <9.34E-2 | ug/g dry | 9.34E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7723-14-0 | Phosphorus | <1.03E0 | ug/g dry | 1.03E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-92-1 | Lead | <4.33E-1 | ug/g dry | 4.33E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7782-49-2 | Selenium | <1.95E0 | ug/g dry | 1.95E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-24-6 | Strontium | 2.05E-1 | ug/g dry | 5.23E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-28-0 | Thallium | <1.03E0 | ug/g dry | 1.03E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-62-2 | Vanadium | <4.54E-2 | ug/g dry | 4.54E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-66-6 | Zinc | <9.28E-2 | ug/g dry | 9.28E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-23-5 | Sodium | 1.82E1 | ug/g dry | 6.70E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |

# Total Metals by PNNL-AGG-ICP-AES/Water Extract

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ62A** | | **Lab ID:** | **0805020-28** | | | |
| 7440-21-3 | Silicon | 8.16E0 | ug/g dry | 1.50E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7704-34-9 | Sulfur | 5.21E1 | ug/g dry | 3.08E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-32-6 | Titanium | <8.77E-3 | ug/g dry | 8.77E-3 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-67-7 | Zirconium | <1.50E-1 | ug/g dry | 1.50E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-22-4 | Silver | <7.72E-2 | ug/g dry | 7.72E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-15-5 | Rhenium | <1.52E-1 | ug/g dry | 1.52E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-36-0 | Antimony | <6.34E-1 | ug/g dry | 6.34E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| **HEIS No.** | **B1VJ64C** | | **Lab ID:** | **0805020-30** | | | |
| 7429-90-5 | Aluminum | <8.58E-2 | ug/g dry | 8.58E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-38-2 | Arsenic | <3.60E-1 | ug/g dry | 3.60E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-42-8 | Boron | <1.94E0 | ug/g dry | 1.94E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-39-3 | Barium | 2.20E-2 | ug/g dry | 8.79E-3 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-41-7 | Beryllium | <2.84E-2 | ug/g dry | 2.84E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-69-9 | Bismuth | <1.88E-1 | ug/g dry | 1.88E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-70-2 | Calcium | 2.63E1 | ug/g dry | 3.87E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-43-9 | Cadmium | <2.69E-2 | ug/g dry | 2.69E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-48-4 | Cobalt | <9.60E-2 | ug/g dry | 9.60E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-47-3 | Chromium | <3.33E-2 | ug/g dry | 3.33E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-50-8 | Copper | <8.04E-2 | ug/g dry | 8.04E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-89-6 | Iron | <1.42E-1 | ug/g dry | 1.42E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-09-7 | Potassium | 1.78E1 | ug/g dry | 2.33E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-93-2 | Lithium | <5.40E-1 | ug/g dry | 5.40E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-95-4 | Magnesium | 9.58E0 | ug/g dry | 8.34E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-96-5 | Manganese | <1.71E-2 | ug/g dry | 1.71E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-98-7 | Molybdenum | <1.39E-1 | ug/g dry | 1.39E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-02-0 | Nickel | <9.33E-2 | ug/g dry | 9.33E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7723-14-0 | Phosphorus | <1.03E0 | ug/g dry | 1.03E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-92-1 | Lead | <4.32E-1 | ug/g dry | 4.32E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7782-49-2 | Selenium | <1.95E0 | ug/g dry | 1.95E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-24-6 | Strontium | 1.44E-1 | ug/g dry | 5.22E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-28-0 | Thallium | <1.03E0 | ug/g dry | 1.03E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-62-2 | Vanadium | <4.53E-2 | ug/g dry | 4.53E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-66-6 | Zinc | <9.27E-2 | ug/g dry | 9.27E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-23-5 | Sodium | 3.62E1 | ug/g dry | 6.69E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-21-3 | Silicon | 6.84E0 | ug/g dry | 1.50E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7704-34-9 | Sulfur | 4.56E1 | ug/g dry | 3.08E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-32-6 | Titanium | <8.76E-3 | ug/g dry | 8.76E-3 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-67-7 | Zirconium | <1.50E-1 | ug/g dry | 1.50E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-22-4 | Silver | <7.71E-2 | ug/g dry | 7.71E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-15-5 | Rhenium | <1.52E-1 | ug/g dry | 1.52E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-36-0 | Antimony | <6.33E-1 | ug/g dry | 6.33E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| **HEIS No.** | **B1VJ64B** | | **Lab ID:** | **0805020-31** | | | |
| 7429-90-5 | Aluminum | 1.40E-1 | ug/g dry | 8.58E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-38-2 | Arsenic | <3.60E-1 | ug/g dry | 3.60E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-42-8 | Boron | <1.94E0 | ug/g dry | 1.94E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-39-3 | Barium | 1.38E-2 | ug/g dry | 8.79E-3 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-41-7 | Beryllium | <2.84E-2 | ug/g dry | 2.84E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-69-9 | Bismuth | <1.88E-1 | ug/g dry | 1.88E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |

# Total Metals by PNNL-AGG-ICP-AES/Water Extract

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ64B** | | **Lab ID:** | **0805020-31** | | | |
| 7440-70-2 | Calcium | 1.65E1 | ug/g dry | 3.87E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-43-9 | Cadmium | <2.69E-2 | ug/g dry | 2.69E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-48-4 | Cobalt | <9.60E-2 | ug/g dry | 9.60E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-47-3 | Chromium | <3.33E-2 | ug/g dry | 3.33E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-50-8 | Copper | <8.04E-2 | ug/g dry | 8.04E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-89-6 | Iron | <1.42E-1 | ug/g dry | 1.42E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-09-7 | Potassium | 1.07E1 | ug/g dry | 2.33E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-93-2 | Lithium | <5.40E-1 | ug/g dry | 5.40E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-95-4 | Magnesium | 6.14E0 | ug/g dry | 8.34E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-96-5 | Manganese | <1.71E-2 | ug/g dry | 1.71E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-98-7 | Molybdenum | <1.39E-1 | ug/g dry | 1.39E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-02-0 | Nickel | <9.33E-2 | ug/g dry | 9.33E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7723-14-0 | Phosphorus | <1.03E0 | ug/g dry | 1.03E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-92-1 | Lead | <4.32E-1 | ug/g dry | 4.32E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7782-49-2 | Selenium | <1.95E0 | ug/g dry | 1.95E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-24-6 | Strontium | 9.01E-2 | ug/g dry | 5.22E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-28-0 | Thallium | <1.03E0 | ug/g dry | 1.03E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-62-2 | Vanadium | <4.53E-2 | ug/g dry | 4.53E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-66-6 | Zinc | <9.27E-2 | ug/g dry | 9.27E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-23-5 | Sodium | 2.14E1 | ug/g dry | 6.69E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-21-3 | Silicon | 7.22E0 | ug/g dry | 1.50E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7704-34-9 | Sulfur | 2.75E1 | ug/g dry | 3.07E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-32-6 | Titanium | <8.76E-3 | ug/g dry | 8.76E-3 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-67-7 | Zirconium | <1.50E-1 | ug/g dry | 1.50E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-22-4 | Silver | <7.71E-2 | ug/g dry | 7.71E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-15-5 | Rhenium | <1.52E-1 | ug/g dry | 1.52E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-36-0 | Antimony | <6.33E-1 | ug/g dry | 6.33E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| **HEIS No.** | **B1VJ64A** | | **Lab ID:** | **0805020-32** | | | |
| 7429-90-5 | Aluminum | 1.66E-1 | ug/g dry | 8.14E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-38-2 | Arsenic | <3.42E-1 | ug/g dry | 3.42E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-42-8 | Boron | <1.84E0 | ug/g dry | 1.84E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-39-3 | Barium | 1.31E-2 | ug/g dry | 8.34E-3 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-41-7 | Beryllium | <2.70E-2 | ug/g dry | 2.70E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-69-9 | Bismuth | <1.78E-1 | ug/g dry | 1.78E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-70-2 | Calcium | 1.44E1 | ug/g dry | 3.67E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-43-9 | Cadmium | <2.55E-2 | ug/g dry | 2.55E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-48-4 | Cobalt | <9.11E-2 | ug/g dry | 9.11E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-47-3 | Chromium | <3.16E-2 | ug/g dry | 3.16E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-50-8 | Copper | <7.63E-2 | ug/g dry | 7.63E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-89-6 | Iron | <1.35E-1 | ug/g dry | 1.35E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-09-7 | Potassium | 9.30E0 | ug/g dry | 2.21E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-93-2 | Lithium | <5.12E-1 | ug/g dry | 5.12E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-95-4 | Magnesium | 5.30E0 | ug/g dry | 7.91E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-96-5 | Manganese | <1.63E-2 | ug/g dry | 1.63E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-98-7 | Molybdenum | <1.32E-1 | ug/g dry | 1.32E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-02-0 | Nickel | <8.85E-2 | ug/g dry | 8.85E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7723-14-0 | Phosphorus | <9.79E-1 | ug/g dry | 9.79E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7439-92-1 | Lead | <4.10E-1 | ug/g dry | 4.10E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |

# Total Metals by PNNL-AGG-ICP-AES/Water Extract

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ64A** | | **Lab ID:** | **0805020-32** | | | |
| 7782-49-2 | Selenium | <1.85E0 | ug/g dry | 1.85E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-24-6 | Strontium | 7.74E-2 | ug/g dry | 4.95E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-28-0 | Thallium | <9.74E-1 | ug/g dry | 9.74E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-62-2 | Vanadium | <4.30E-2 | ug/g dry | 4.30E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-66-6 | Zinc | <8.80E-2 | ug/g dry | 8.80E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-23-5 | Sodium | 2.00E1 | ug/g dry | 6.35E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-21-3 | Silicon | 7.56E0 | ug/g dry | 1.42E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7704-34-9 | Sulfur | 2.39E1 | ug/g dry | 2.92E0 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-32-6 | Titanium | <8.31E-3 | ug/g dry | 8.31E-3 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-67-7 | Zirconium | <1.42E-1 | ug/g dry | 1.42E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-22-4 | Silver | <7.32E-2 | ug/g dry | 7.32E-2 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-15-5 | Rhenium | <1.44E-1 | ug/g dry | 1.44E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |
| 7440-36-0 | Antimony | <6.01E-1 | ug/g dry | 6.01E-1 | 6/30/08 | 8F30003 | PNNL-AGG-ICP-AES |

# Total Metals by PNNL-AGG-ICP-AES/Acid Extract

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ54B** | | **Lab ID:** | **0805020-01** | | | |
| 7429-90-5 | Aluminum | 5.43E3 | ug/g dry | 3.43E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-38-2 | Arsenic | <8.34E1 | ug/g dry | 8.34E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-42-8 | Boron | <7.26E2 | ug/g dry | 7.26E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-39-3 | Barium | 7.61E1 | ug/g dry | 3.27E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-41-7 | Beryllium | <1.30E0 | ug/g dry | 1.30E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-69-9 | Bismuth | <1.73E1 | ug/g dry | 1.73E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-70-2 | Calcium | 7.64E3 | ug/g dry | 1.27E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-43-9 | Cadmium | <1.95E0 | ug/g dry | 1.95E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-48-4 | Cobalt | 7.17E0 | ug/g dry | 7.12E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-47-3 | Chromium | 4.61E0 | ug/g dry | 2.85E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-50-8 | Copper | <3.04E1 | ug/g dry | 3.04E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-89-6 | Iron | 1.33E4 | ug/g dry | 8.72E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-09-7 | Potassium | 1.07E3 | ug/g dry | 8.09E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-93-2 | Lithium | <1.24E1 | ug/g dry | 1.24E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-95-4 | Magnesium | 4.00E3 | ug/g dry | 2.70E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-96-5 | Manganese | 2.67E2 | ug/g dry | 1.02E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-98-7 | Molybdenum | <1.93E1 | ug/g dry | 1.93E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-02-0 | Nickel | 7.31E0 | ug/g dry | 7.02E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7723-14-0 | Phosphorus | 7.20E2 | ug/g dry | 6.43E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-92-1 | Lead | <2.71E1 | ug/g dry | 2.71E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-24-6 | Strontium | 2.72E1 | ug/g dry | 1.24E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-66-6 | Zinc | 3.51E1 | ug/g dry | 5.35E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-23-5 | Sodium | <9.14E2 | ug/g dry | 9.14E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-21-3 | Silicon | <1.19E3 | ug/g dry | 1.19E3 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7704-34-9 | Sulfur | <2.02E2 | ug/g dry | 2.02E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-32-6 | Titanium | 6.94E2 | ug/g dry | 2.69E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-67-7 | Zirconium | <1.74E1 | ug/g dry | 1.74E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-15-5 | Rhenium | <1.50E1 | ug/g dry | 1.50E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-36-0 | Antimony | <9.55E1 | ug/g dry | 9.55E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| **HEIS No.** | **B1VJ55C** | | **Lab ID:** | **0805020-05** | | | |
| 7429-90-5 | Aluminum | 5.97E3 | ug/g dry | 4.01E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-38-2 | Arsenic | <9.73E1 | ug/g dry | 9.73E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-42-8 | Boron | <8.48E2 | ug/g dry | 8.48E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-39-3 | Barium | 7.67E1 | ug/g dry | 3.82E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-41-7 | Beryllium | <1.51E0 | ug/g dry | 1.51E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-69-9 | Bismuth | <2.02E1 | ug/g dry | 2.02E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-70-2 | Calcium | 1.10E4 | ug/g dry | 1.49E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-43-9 | Cadmium | <2.28E0 | ug/g dry | 2.28E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-48-4 | Cobalt | <8.32E0 | ug/g dry | 8.32E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-47-3 | Chromium | 4.53E0 | ug/g dry | 3.33E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-50-8 | Copper | <3.55E1 | ug/g dry | 3.55E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-89-6 | Iron | 1.54E4 | ug/g dry | 1.02E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-09-7 | Potassium | 1.18E3 | ug/g dry | 9.45E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-93-2 | Lithium | <1.44E1 | ug/g dry | 1.44E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-95-4 | Magnesium | 4.94E3 | ug/g dry | 3.15E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-96-5 | Manganese | 2.98E2 | ug/g dry | 1.19E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-98-7 | Molybdenum | <2.26E1 | ug/g dry | 2.26E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-02-0 | Nickel | <8.19E0 | ug/g dry | 8.19E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |

# Total Metals by PNNL-AGG-ICP-AES/Acid Extract

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ55C** | | **Lab ID:** | **0805020-05** | | | |
| 7723-14-0 | Phosphorus | 8.11E2 | ug/g dry | 7.50E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-92-1 | Lead | <3.17E1 | ug/g dry | 3.17E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-24-6 | Strontium | 3.49E1 | ug/g dry | 1.44E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-66-6 | Zinc | 3.90E1 | ug/g dry | 6.25E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-23-5 | Sodium | <1.07E3 | ug/g dry | 1.07E3 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-21-3 | Silicon | <1.39E3 | ug/g dry | 1.39E3 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7704-34-9 | Sulfur | <2.36E2 | ug/g dry | 2.36E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-32-6 | Titanium | 7.88E2 | ug/g dry | 3.14E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-67-7 | Zirconium | <2.03E1 | ug/g dry | 2.03E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-15-5 | Rhenium | <1.76E1 | ug/g dry | 1.76E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-36-0 | Antimony | <1.12E2 | ug/g dry | 1.12E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| **HEIS No.** | **B1VJ56A** | | **Lab ID:** | **0805020-07** | | | |
| 7429-90-5 | Aluminum | 4.49E3 | ug/g dry | 3.34E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-38-2 | Arsenic | <8.11E1 | ug/g dry | 8.11E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-42-8 | Boron | <7.06E2 | ug/g dry | 7.06E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-39-3 | Barium | 6.48E1 | ug/g dry | 3.18E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-41-7 | Beryllium | <1.26E0 | ug/g dry | 1.26E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-69-9 | Bismuth | <1.69E1 | ug/g dry | 1.69E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-70-2 | Calcium | 6.08E3 | ug/g dry | 1.24E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-43-9 | Cadmium | <1.89E0 | ug/g dry | 1.89E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-48-4 | Cobalt | <6.92E0 | ug/g dry | 6.92E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-47-3 | Chromium | 5.23E0 | ug/g dry | 2.77E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-50-8 | Copper | <2.96E1 | ug/g dry | 2.96E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-89-6 | Iron | 1.26E4 | ug/g dry | 8.48E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-09-7 | Potassium | 7.72E2 | ug/g dry | 7.87E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-93-2 | Lithium | <1.20E1 | ug/g dry | 1.20E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-95-4 | Magnesium | 3.09E3 | ug/g dry | 2.62E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-96-5 | Manganese | 2.37E2 | ug/g dry | 9.93E-1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-98-7 | Molybdenum | <1.88E1 | ug/g dry | 1.88E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-02-0 | Nickel | 7.90E0 | ug/g dry | 6.82E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7723-14-0 | Phosphorus | 7.22E2 | ug/g dry | 6.25E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-92-1 | Lead | <2.64E1 | ug/g dry | 2.64E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-24-6 | Strontium | 2.25E1 | ug/g dry | 1.20E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-66-6 | Zinc | 2.82E1 | ug/g dry | 5.20E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-23-5 | Sodium | 1.77E3 | ug/g dry | 8.89E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-21-3 | Silicon | <1.16E3 | ug/g dry | 1.16E3 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7704-34-9 | Sulfur | <1.97E2 | ug/g dry | 1.97E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-32-6 | Titanium | 7.66E2 | ug/g dry | 2.62E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-67-7 | Zirconium | <1.69E1 | ug/g dry | 1.69E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-15-5 | Rhenium | <1.46E1 | ug/g dry | 1.46E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-36-0 | Antimony | <9.29E1 | ug/g dry | 9.29E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| **HEIS No.** | **B1VJ56B** | | **Lab ID:** | **0805020-08** | | | |
| 7429-90-5 | Aluminum | 4.73E3 | ug/g dry | 3.58E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-38-2 | Arsenic | <8.69E1 | ug/g dry | 8.69E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-42-8 | Boron | <7.56E2 | ug/g dry | 7.56E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-39-3 | Barium | 6.85E1 | ug/g dry | 3.41E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-41-7 | Beryllium | <1.35E0 | ug/g dry | 1.35E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-69-9 | Bismuth | <1.81E1 | ug/g dry | 1.81E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |

# Total Metals by PNNL-AGG-ICP-AES/Acid Extract

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ56B** | | **Lab ID:** | **0805020-08** | | | |
| 7440-70-2 | Calcium | 5.84E3 | ug/g dry | 1.33E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-43-9 | Cadmium | <2.03E0 | ug/g dry | 2.03E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-48-4 | Cobalt | <7.42E0 | ug/g dry | 7.42E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-47-3 | Chromium | 3.59E0 | ug/g dry | 2.97E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-50-8 | Copper | <3.17E1 | ug/g dry | 3.17E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-89-6 | Iron | 1.34E4 | ug/g dry | 9.08E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-09-7 | Potassium | 8.53E2 | ug/g dry | 8.43E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-93-2 | Lithium | <1.29E1 | ug/g dry | 1.29E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-95-4 | Magnesium | 3.21E3 | ug/g dry | 2.81E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-96-5 | Manganese | 2.54E2 | ug/g dry | 1.06E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-98-7 | Molybdenum | <2.02E1 | ug/g dry | 2.02E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-02-0 | Nickel | 9.53E0 | ug/g dry | 7.31E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7723-14-0 | Phosphorus | 6.90E2 | ug/g dry | 6.70E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-92-1 | Lead | <2.83E1 | ug/g dry | 2.83E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-24-6 | Strontium | 2.23E1 | ug/g dry | 1.29E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-66-6 | Zinc | 2.86E1 | ug/g dry | 5.57E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-23-5 | Sodium | 2.01E3 | ug/g dry | 9.53E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-21-3 | Silicon | <1.24E3 | ug/g dry | 1.24E3 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7704-34-9 | Sulfur | <2.11E2 | ug/g dry | 2.11E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-32-6 | Titanium | 8.40E2 | ug/g dry | 2.81E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-67-7 | Zirconium | <1.81E1 | ug/g dry | 1.81E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-15-5 | Rhenium | <1.57E1 | ug/g dry | 1.57E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-36-0 | Antimony | <9.95E1 | ug/g dry | 9.95E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| **HEIS No.** | **B1VJ56C** | | **Lab ID:** | **0805020-09** | | | |
| 7429-90-5 | Aluminum | 5.02E3 | ug/g dry | 3.46E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-38-2 | Arsenic | <8.40E1 | ug/g dry | 8.40E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-42-8 | Boron | <7.32E2 | ug/g dry | 7.32E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-39-3 | Barium | 5.86E1 | ug/g dry | 3.29E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-41-7 | Beryllium | <1.31E0 | ug/g dry | 1.31E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-69-9 | Bismuth | <1.75E1 | ug/g dry | 1.75E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-70-2 | Calcium | 6.00E3 | ug/g dry | 1.29E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-43-9 | Cadmium | <1.96E0 | ug/g dry | 1.96E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-48-4 | Cobalt | <7.18E0 | ug/g dry | 7.18E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-47-3 | Chromium | 8.96E0 | ug/g dry | 2.87E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-50-8 | Copper | <3.06E1 | ug/g dry | 3.06E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-89-6 | Iron | 1.26E4 | ug/g dry | 8.79E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-09-7 | Potassium | 8.87E2 | ug/g dry | 8.16E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-93-2 | Lithium | <1.25E1 | ug/g dry | 1.25E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-95-4 | Magnesium | 3.37E3 | ug/g dry | 2.72E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-96-5 | Manganese | 2.25E2 | ug/g dry | 1.03E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-98-7 | Molybdenum | <1.95E1 | ug/g dry | 1.95E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-02-0 | Nickel | 9.77E0 | ug/g dry | 7.07E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7723-14-0 | Phosphorus | 5.63E2 | ug/g dry | 6.48E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-92-1 | Lead | <2.73E1 | ug/g dry | 2.73E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-24-6 | Strontium | 2.44E1 | ug/g dry | 1.25E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-66-6 | Zinc | 2.93E1 | ug/g dry | 5.39E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-23-5 | Sodium | 1.45E3 | ug/g dry | 9.22E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-21-3 | Silicon | <1.20E3 | ug/g dry | 1.20E3 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |

# Total Metals by PNNL-AGG-ICP-AES/Acid Extract

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ56C** | | **Lab ID:** | **0805020-09** | | | |
| 7704-34-9 | Sulfur | <2.04E2 | ug/g dry | 2.04E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-32-6 | Titanium | 6.82E2 | ug/g dry | 2.71E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-67-7 | Zirconium | <1.75E1 | ug/g dry | 1.75E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-15-5 | Rhenium | <1.52E1 | ug/g dry | 1.52E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-36-0 | Antimony | <9.63E1 | ug/g dry | 9.63E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| **HEIS No.** | **B1VJ58C** | | **Lab ID:** | **0805020-10** | | | |
| 7429-90-5 | Aluminum | 6.47E3 | ug/g dry | 3.69E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-38-2 | Arsenic | <8.97E1 | ug/g dry | 8.97E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-42-8 | Boron | <7.81E2 | ug/g dry | 7.81E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-39-3 | Barium | 8.26E1 | ug/g dry | 3.52E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-41-7 | Beryllium | <1.39E0 | ug/g dry | 1.39E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-69-9 | Bismuth | <1.86E1 | ug/g dry | 1.86E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-70-2 | Calcium | 8.79E3 | ug/g dry | 1.37E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-43-9 | Cadmium | <2.10E0 | ug/g dry | 2.10E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-48-4 | Cobalt | <7.66E0 | ug/g dry | 7.66E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-47-3 | Chromium | 7.38E0 | ug/g dry | 3.07E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-50-8 | Copper | <3.27E1 | ug/g dry | 3.27E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-89-6 | Iron | 1.41E4 | ug/g dry | 9.38E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-09-7 | Potassium | 1.40E3 | ug/g dry | 8.71E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-93-2 | Lithium | <1.33E1 | ug/g dry | 1.33E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-95-4 | Magnesium | 4.25E3 | ug/g dry | 2.90E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-96-5 | Manganese | 2.83E2 | ug/g dry | 1.10E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-98-7 | Molybdenum | <2.08E1 | ug/g dry | 2.08E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-02-0 | Nickel | 8.96E0 | ug/g dry | 7.55E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7723-14-0 | Phosphorus | 7.43E2 | ug/g dry | 6.91E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-92-1 | Lead | <2.92E1 | ug/g dry | 2.92E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-24-6 | Strontium | 2.92E1 | ug/g dry | 1.33E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-66-6 | Zinc | 3.67E1 | ug/g dry | 5.75E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-23-5 | Sodium | 2.09E3 | ug/g dry | 9.84E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-21-3 | Silicon | <1.28E3 | ug/g dry | 1.28E3 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7704-34-9 | Sulfur | <2.17E2 | ug/g dry | 2.17E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-32-6 | Titanium | 6.94E2 | ug/g dry | 2.90E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-67-7 | Zirconium | <1.87E1 | ug/g dry | 1.87E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-15-5 | Rhenium | <1.62E1 | ug/g dry | 1.62E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-36-0 | Antimony | <1.03E2 | ug/g dry | 1.03E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| **HEIS No.** | **B1VJ58B** | | **Lab ID:** | **0805020-11** | | | |
| 7429-90-5 | Aluminum | 6.11E3 | ug/g dry | 3.93E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-38-2 | Arsenic | <9.55E1 | ug/g dry | 9.55E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-42-8 | Boron | <8.32E2 | ug/g dry | 8.32E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-39-3 | Barium | 8.02E1 | ug/g dry | 3.74E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-41-7 | Beryllium | <1.48E0 | ug/g dry | 1.48E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-69-9 | Bismuth | <1.99E1 | ug/g dry | 1.99E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-70-2 | Calcium | 8.77E3 | ug/g dry | 1.46E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-43-9 | Cadmium | <2.23E0 | ug/g dry | 2.23E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-48-4 | Cobalt | <8.16E0 | ug/g dry | 8.16E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-47-3 | Chromium | 4.96E0 | ug/g dry | 3.27E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-50-8 | Copper | <3.48E1 | ug/g dry | 3.48E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-89-6 | Iron | 1.33E4 | ug/g dry | 9.99E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |

# Total Metals by PNNL-AGG-ICP-AES/Acid Extract

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ58B** | | **Lab ID:** | **0805020-11** | | | |
| 7440-09-7 | Potassium | 1.27E3 | ug/g dry | 9.27E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-93-2 | Lithium | <1.42E1 | ug/g dry | 1.42E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-95-4 | Magnesium | 4.14E3 | ug/g dry | 3.09E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-96-5 | Manganese | 2.82E2 | ug/g dry | 1.17E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-98-7 | Molybdenum | <2.22E1 | ug/g dry | 2.22E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-02-0 | Nickel | <8.04E0 | ug/g dry | 8.04E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7723-14-0 | Phosphorus | 6.73E2 | ug/g dry | 7.36E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-92-1 | Lead | <3.11E1 | ug/g dry | 3.11E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-24-6 | Strontium | 2.91E1 | ug/g dry | 1.42E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-66-6 | Zinc | 3.44E1 | ug/g dry | 6.13E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-23-5 | Sodium | 2.01E3 | ug/g dry | 1.05E3 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-21-3 | Silicon | <1.37E3 | ug/g dry | 1.37E3 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7704-34-9 | Sulfur | <2.32E2 | ug/g dry | 2.32E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-32-6 | Titanium | 6.63E2 | ug/g dry | 3.08E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-67-7 | Zirconium | <1.99E1 | ug/g dry | 1.99E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-15-5 | Rhenium | <1.72E1 | ug/g dry | 1.72E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-36-0 | Antimony | <1.09E2 | ug/g dry | 1.09E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| **HEIS No.** | **B1VJ58A** | | **Lab ID:** | **0805020-12** | | | |
| 7429-90-5 | Aluminum | 6.21E3 | ug/g dry | 4.02E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-38-2 | Arsenic | <9.77E1 | ug/g dry | 9.77E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-42-8 | Boron | <8.51E2 | ug/g dry | 8.51E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-39-3 | Barium | 7.85E1 | ug/g dry | 3.83E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-41-7 | Beryllium | <1.52E0 | ug/g dry | 1.52E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-69-9 | Bismuth | <2.03E1 | ug/g dry | 2.03E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-70-2 | Calcium | 8.81E3 | ug/g dry | 1.49E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-43-9 | Cadmium | <2.28E0 | ug/g dry | 2.28E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-48-4 | Cobalt | <8.35E0 | ug/g dry | 8.35E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-47-3 | Chromium | 6.14E0 | ug/g dry | 3.34E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-50-8 | Copper | <3.56E1 | ug/g dry | 3.56E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-89-6 | Iron | 1.36E4 | ug/g dry | 1.02E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-09-7 | Potassium | 1.34E3 | ug/g dry | 9.49E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-93-2 | Lithium | <1.45E1 | ug/g dry | 1.45E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-95-4 | Magnesium | 4.43E3 | ug/g dry | 3.16E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-96-5 | Manganese | 2.82E2 | ug/g dry | 1.20E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-98-7 | Molybdenum | <2.27E1 | ug/g dry | 2.27E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-02-0 | Nickel | 9.21E0 | ug/g dry | 8.23E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7723-14-0 | Phosphorus | 7.04E2 | ug/g dry | 7.53E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-92-1 | Lead | <3.18E1 | ug/g dry | 3.18E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-24-6 | Strontium | 2.80E1 | ug/g dry | 1.45E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-66-6 | Zinc | 3.55E1 | ug/g dry | 6.27E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-23-5 | Sodium | 2.04E3 | ug/g dry | 1.07E3 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-21-3 | Silicon | <1.40E3 | ug/g dry | 1.40E3 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7704-34-9 | Sulfur | <2.37E2 | ug/g dry | 2.37E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-32-6 | Titanium | 6.80E2 | ug/g dry | 3.16E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-67-7 | Zirconium | <2.04E1 | ug/g dry | 2.04E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-15-5 | Rhenium | <1.76E1 | ug/g dry | 1.76E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-36-0 | Antimony | <1.12E2 | ug/g dry | 1.12E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| **HEIS No.** | **B1VJ59C** | | **Lab ID:** | **0805020-14** | | | |

# Total Metals by PNNL-AGG-ICP-AES/Acid Extract

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ59C** | | **Lab ID:** | **0805020-14** | | | |
| 7429-90-5 | Aluminum | 5.12E3 | ug/g dry | 3.75E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-38-2 | Arsenic | <9.10E1 | ug/g dry | 9.10E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-42-8 | Boron | <7.93E2 | ug/g dry | 7.93E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-39-3 | Barium | 5.90E1 | ug/g dry | 3.57E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-41-7 | Beryllium | <1.41E0 | ug/g dry | 1.41E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-69-9 | Bismuth | <1.89E1 | ug/g dry | 1.89E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-70-2 | Calcium | 7.29E3 | ug/g dry | 1.39E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-43-9 | Cadmium | <2.13E0 | ug/g dry | 2.13E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-48-4 | Cobalt | <7.77E0 | ug/g dry | 7.77E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-47-3 | Chromium | 1.20E1 | ug/g dry | 3.11E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-50-8 | Copper | <3.32E1 | ug/g dry | 3.32E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-89-6 | Iron | 1.03E4 | ug/g dry | 9.52E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-09-7 | Potassium | 1.04E3 | ug/g dry | 8.84E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-93-2 | Lithium | <1.35E1 | ug/g dry | 1.35E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-95-4 | Magnesium | 3.54E3 | ug/g dry | 2.95E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-96-5 | Manganese | 2.19E2 | ug/g dry | 1.11E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-98-7 | Molybdenum | <2.11E1 | ug/g dry | 2.11E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-02-0 | Nickel | 1.11E1 | ug/g dry | 7.66E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7723-14-0 | Phosphorus | 3.95E2 | ug/g dry | 7.02E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-92-1 | Lead | <2.96E1 | ug/g dry | 2.96E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-24-6 | Strontium | 3.21E1 | ug/g dry | 1.35E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-66-6 | Zinc | 2.82E1 | ug/g dry | 5.84E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-23-5 | Sodium | <9.98E2 | ug/g dry | 9.98E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-21-3 | Silicon | <1.30E3 | ug/g dry | 1.30E3 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7704-34-9 | Sulfur | <2.21E2 | ug/g dry | 2.21E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-32-6 | Titanium | 4.52E2 | ug/g dry | 2.94E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-67-7 | Zirconium | <1.90E1 | ug/g dry | 1.90E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-15-5 | Rhenium | <1.64E1 | ug/g dry | 1.64E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-36-0 | Antimony | <1.04E2 | ug/g dry | 1.04E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| **HEIS No.** | **B1VJ59B** | | **Lab ID:** | **0805020-15** | | | |
| 7429-90-5 | Aluminum | 4.54E3 | ug/g dry | 3.55E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-38-2 | Arsenic | <8.63E1 | ug/g dry | 8.63E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-42-8 | Boron | <7.51E2 | ug/g dry | 7.51E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-39-3 | Barium | 4.63E1 | ug/g dry | 3.38E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-41-7 | Beryllium | <1.34E0 | ug/g dry | 1.34E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-69-9 | Bismuth | <1.79E1 | ug/g dry | 1.79E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-70-2 | Calcium | 7.42E3 | ug/g dry | 1.32E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-43-9 | Cadmium | <2.02E0 | ug/g dry | 2.02E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-48-4 | Cobalt | <7.37E0 | ug/g dry | 7.37E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-47-3 | Chromium | 1.26E1 | ug/g dry | 2.95E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-50-8 | Copper | <3.14E1 | ug/g dry | 3.14E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-89-6 | Iron | 9.03E3 | ug/g dry | 9.02E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-09-7 | Potassium | 8.50E2 | ug/g dry | 8.37E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-93-2 | Lithium | <1.28E1 | ug/g dry | 1.28E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-95-4 | Magnesium | 3.55E3 | ug/g dry | 2.79E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-96-5 | Manganese | 1.94E2 | ug/g dry | 1.06E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-98-7 | Molybdenum | <2.00E1 | ug/g dry | 2.00E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-02-0 | Nickel | 1.07E1 | ug/g dry | 7.26E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |

# Total Metals by PNNL-AGG-ICP-AES/Acid Extract

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ59B** | | **Lab ID:** | **0805020-15** | | | |
| 7723-14-0 | Phosphorus | 3.86E2 | ug/g dry | 6.65E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-92-1 | Lead | <2.81E1 | ug/g dry | 2.81E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-24-6 | Strontium | 2.61E1 | ug/g dry | 1.28E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-66-6 | Zinc | 2.34E1 | ug/g dry | 5.53E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-23-5 | Sodium | <9.46E2 | ug/g dry | 9.46E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-21-3 | Silicon | <1.23E3 | ug/g dry | 1.23E3 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7704-34-9 | Sulfur | <2.09E2 | ug/g dry | 2.09E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-32-6 | Titanium | 4.00E2 | ug/g dry | 2.79E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-67-7 | Zirconium | <1.80E1 | ug/g dry | 1.80E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-15-5 | Rhenium | <1.56E1 | ug/g dry | 1.56E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-36-0 | Antimony | <9.88E1 | ug/g dry | 9.88E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| **HEIS No.** | **B1VJ59A** | | **Lab ID:** | **0805020-16** | | | |
| 7429-90-5 | Aluminum | 4.45E3 | ug/g dry | 3.51E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-38-2 | Arsenic | <8.53E1 | ug/g dry | 8.53E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-42-8 | Boron | <7.43E2 | ug/g dry | 7.43E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-39-3 | Barium | 4.32E1 | ug/g dry | 3.34E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-41-7 | Beryllium | <1.33E0 | ug/g dry | 1.33E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-69-9 | Bismuth | <1.77E1 | ug/g dry | 1.77E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-70-2 | Calcium | 7.77E3 | ug/g dry | 1.30E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-43-9 | Cadmium | <1.99E0 | ug/g dry | 1.99E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-48-4 | Cobalt | <7.29E0 | ug/g dry | 7.29E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-47-3 | Chromium | 1.25E1 | ug/g dry | 2.92E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-50-8 | Copper | <3.11E1 | ug/g dry | 3.11E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-89-6 | Iron | 9.02E3 | ug/g dry | 8.92E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-09-7 | Potassium | 8.22E2 | ug/g dry | 8.28E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-93-2 | Lithium | <1.27E1 | ug/g dry | 1.27E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-95-4 | Magnesium | 3.62E3 | ug/g dry | 2.76E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-96-5 | Manganese | 1.85E2 | ug/g dry | 1.05E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-98-7 | Molybdenum | <1.98E1 | ug/g dry | 1.98E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-02-0 | Nickel | 1.10E1 | ug/g dry | 7.18E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7723-14-0 | Phosphorus | 4.05E2 | ug/g dry | 6.58E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-92-1 | Lead | <2.78E1 | ug/g dry | 2.78E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-24-6 | Strontium | 2.88E1 | ug/g dry | 1.27E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-66-6 | Zinc | 2.45E1 | ug/g dry | 5.47E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-23-5 | Sodium | <9.36E2 | ug/g dry | 9.36E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-21-3 | Silicon | <1.22E3 | ug/g dry | 1.22E3 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7704-34-9 | Sulfur | <2.07E2 | ug/g dry | 2.07E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-32-6 | Titanium | 4.27E2 | ug/g dry | 2.75E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-67-7 | Zirconium | <1.78E1 | ug/g dry | 1.78E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-15-5 | Rhenium | <1.54E1 | ug/g dry | 1.54E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-36-0 | Antimony | <9.77E1 | ug/g dry | 9.77E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| **HEIS No.** | **B1VJ60C** | | **Lab ID:** | **0805020-18** | | | |
| 7429-90-5 | Aluminum | 4.76E3 | ug/g dry | 3.39E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-38-2 | Arsenic | <8.23E1 | ug/g dry | 8.23E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-42-8 | Boron | <7.17E2 | ug/g dry | 7.17E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-39-3 | Barium | 5.27E1 | ug/g dry | 3.23E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-41-7 | Beryllium | <1.28E0 | ug/g dry | 1.28E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-69-9 | Bismuth | <1.71E1 | ug/g dry | 1.71E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |

# Total Metals by PNNL-AGG-ICP-AES/Acid Extract

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ60C** | | **Lab ID:** | **0805020-18** | | | |
| 7440-70-2 | Calcium | 8.50E3 | ug/g dry | 1.26E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-43-9 | Cadmium | <1.92E0 | ug/g dry | 1.92E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-48-4 | Cobalt | <7.03E0 | ug/g dry | 7.03E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-47-3 | Chromium | 2.40E1 | ug/g dry | 2.82E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-50-8 | Copper | <3.00E1 | ug/g dry | 3.00E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-89-6 | Iron | 1.10E4 | ug/g dry | 8.61E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-09-7 | Potassium | 9.70E2 | ug/g dry | 7.99E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-93-2 | Lithium | <1.22E1 | ug/g dry | 1.22E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-95-4 | Magnesium | 3.84E3 | ug/g dry | 2.66E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-96-5 | Manganese | 2.35E2 | ug/g dry | 1.01E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-98-7 | Molybdenum | <1.91E1 | ug/g dry | 1.91E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-02-0 | Nickel | 1.59E1 | ug/g dry | 6.93E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7723-14-0 | Phosphorus | 3.91E2 | ug/g dry | 6.34E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-92-1 | Lead | <2.68E1 | ug/g dry | 2.68E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-24-6 | Strontium | 3.02E1 | ug/g dry | 1.22E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-66-6 | Zinc | 5.00E1 | ug/g dry | 5.28E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-23-5 | Sodium | <9.02E2 | ug/g dry | 9.02E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-21-3 | Silicon | <1.18E3 | ug/g dry | 1.18E3 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7704-34-9 | Sulfur | <2.00E2 | ug/g dry | 2.00E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-32-6 | Titanium | 4.40E2 | ug/g dry | 2.66E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-67-7 | Zirconium | <1.71E1 | ug/g dry | 1.71E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-15-5 | Rhenium | <1.48E1 | ug/g dry | 1.48E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-36-0 | Antimony | <9.43E1 | ug/g dry | 9.43E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| **HEIS No.** | **B1VJ60B** | | **Lab ID:** | **0805020-19** | | | |
| 7429-90-5 | Aluminum | 4.59E3 | ug/g dry | 3.58E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-38-2 | Arsenic | <8.69E1 | ug/g dry | 8.69E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-42-8 | Boron | <7.57E2 | ug/g dry | 7.57E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-39-3 | Barium | 5.49E1 | ug/g dry | 3.41E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-41-7 | Beryllium | <1.35E0 | ug/g dry | 1.35E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-69-9 | Bismuth | <1.81E1 | ug/g dry | 1.81E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-70-2 | Calcium | 8.60E3 | ug/g dry | 1.33E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-43-9 | Cadmium | <2.03E0 | ug/g dry | 2.03E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-48-4 | Cobalt | <7.43E0 | ug/g dry | 7.43E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-47-3 | Chromium | 1.02E1 | ug/g dry | 2.97E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-50-8 | Copper | <3.17E1 | ug/g dry | 3.17E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-89-6 | Iron | 8.67E3 | ug/g dry | 9.09E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-09-7 | Potassium | 1.16E3 | ug/g dry | 8.44E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-93-2 | Lithium | <1.29E1 | ug/g dry | 1.29E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-95-4 | Magnesium | 3.68E3 | ug/g dry | 2.81E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-96-5 | Manganese | 2.13E2 | ug/g dry | 1.06E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-98-7 | Molybdenum | <2.02E1 | ug/g dry | 2.02E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-02-0 | Nickel | 9.00E0 | ug/g dry | 7.32E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7723-14-0 | Phosphorus | 3.24E2 | ug/g dry | 6.70E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-92-1 | Lead | <2.83E1 | ug/g dry | 2.83E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-24-6 | Strontium | 2.70E1 | ug/g dry | 1.29E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-66-6 | Zinc | 2.54E1 | ug/g dry | 5.58E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-23-5 | Sodium | <9.53E2 | ug/g dry | 9.53E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-21-3 | Silicon | <1.24E3 | ug/g dry | 1.24E3 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |

# Total Metals by PNNL-AGG-ICP-AES/Acid Extract

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ60B** | | **Lab ID:** | **0805020-19** | | | |
| 7704-34-9 | Sulfur | <2.11E2 | ug/g dry | 2.11E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-32-6 | Titanium | 3.60E2 | ug/g dry | 2.81E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-67-7 | Zirconium | <1.81E1 | ug/g dry | 1.81E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-15-5 | Rhenium | <1.57E1 | ug/g dry | 1.57E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-36-0 | Antimony | <9.96E1 | ug/g dry | 9.96E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| **HEIS No.** | **B1VJ60A** | | **Lab ID:** | **0805020-20** | | | |
| 7429-90-5 | Aluminum | 4.37E3 | ug/g dry | 3.51E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-38-2 | Arsenic | <8.53E1 | ug/g dry | 8.53E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-42-8 | Boron | <7.43E2 | ug/g dry | 7.43E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-39-3 | Barium | 4.96E1 | ug/g dry | 3.34E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-41-7 | Beryllium | <1.33E0 | ug/g dry | 1.33E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-69-9 | Bismuth | <1.77E1 | ug/g dry | 1.77E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-70-2 | Calcium | 7.82E3 | ug/g dry | 1.30E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-43-9 | Cadmium | <1.99E0 | ug/g dry | 1.99E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-48-4 | Cobalt | <7.29E0 | ug/g dry | 7.29E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-47-3 | Chromium | 9.17E0 | ug/g dry | 2.92E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-50-8 | Copper | <3.11E1 | ug/g dry | 3.11E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-89-6 | Iron | 9.13E3 | ug/g dry | 8.92E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-09-7 | Potassium | 9.14E2 | ug/g dry | 8.28E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-93-2 | Lithium | <1.27E1 | ug/g dry | 1.27E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-95-4 | Magnesium | 3.49E3 | ug/g dry | 2.76E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-96-5 | Manganese | 1.90E2 | ug/g dry | 1.04E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-98-7 | Molybdenum | <1.98E1 | ug/g dry | 1.98E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-02-0 | Nickel | 8.23E0 | ug/g dry | 7.18E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7723-14-0 | Phosphorus | 4.10E2 | ug/g dry | 6.57E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-92-1 | Lead | <2.78E1 | ug/g dry | 2.78E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-24-6 | Strontium | 2.59E1 | ug/g dry | 1.27E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-66-6 | Zinc | 2.41E1 | ug/g dry | 5.47E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-23-5 | Sodium | <9.35E2 | ug/g dry | 9.35E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-21-3 | Silicon | <1.22E3 | ug/g dry | 1.22E3 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7704-34-9 | Sulfur | <2.07E2 | ug/g dry | 2.07E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-32-6 | Titanium | 4.04E2 | ug/g dry | 2.75E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-67-7 | Zirconium | <1.78E1 | ug/g dry | 1.78E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-15-5 | Rhenium | <1.54E1 | ug/g dry | 1.54E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-36-0 | Antimony | <9.77E1 | ug/g dry | 9.77E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| **HEIS No.** | **B1VJ61C** | | **Lab ID:** | **0805020-22** | | | |
| 7429-90-5 | Aluminum | 4.15E3 | ug/g dry | 3.15E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-38-2 | Arsenic | <7.65E1 | ug/g dry | 7.65E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-42-8 | Boron | <6.66E2 | ug/g dry | 6.66E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-39-3 | Barium | 4.50E1 | ug/g dry | 3.00E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-41-7 | Beryllium | <1.19E0 | ug/g dry | 1.19E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-69-9 | Bismuth | <1.59E1 | ug/g dry | 1.59E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-70-2 | Calcium | 7.32E3 | ug/g dry | 1.17E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-43-9 | Cadmium | <1.79E0 | ug/g dry | 1.79E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-48-4 | Cobalt | <6.53E0 | ug/g dry | 6.53E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-47-3 | Chromium | 9.33E0 | ug/g dry | 2.62E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-50-8 | Copper | <2.79E1 | ug/g dry | 2.79E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-89-6 | Iron | 8.92E3 | ug/g dry | 8.00E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |

# Total Metals by PNNL-AGG-ICP-AES/Acid Extract

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ61C** | | **Lab ID:** | **0805020-22** | | | |
| 7440-09-7 | Potassium | 8.33E2 | ug/g dry | 7.42E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-93-2 | Lithium | <1.13E1 | ug/g dry | 1.13E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-95-4 | Magnesium | 3.32E3 | ug/g dry | 2.48E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-96-5 | Manganese | 1.69E2 | ug/g dry | 9.37E-1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-98-7 | Molybdenum | <1.77E1 | ug/g dry | 1.77E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-02-0 | Nickel | 9.60E0 | ug/g dry | 6.44E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7723-14-0 | Phosphorus | 3.96E2 | ug/g dry | 5.89E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-92-1 | Lead | <2.49E1 | ug/g dry | 2.49E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-24-6 | Strontium | 2.62E1 | ug/g dry | 1.13E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-66-6 | Zinc | 2.96E1 | ug/g dry | 4.91E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-23-5 | Sodium | <8.39E2 | ug/g dry | 8.39E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-21-3 | Silicon | <1.09E3 | ug/g dry | 1.09E3 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7704-34-9 | Sulfur | <1.85E2 | ug/g dry | 1.85E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-32-6 | Titanium | 4.37E2 | ug/g dry | 2.47E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-67-7 | Zirconium | <1.59E1 | ug/g dry | 1.59E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-15-5 | Rhenium | <1.38E1 | ug/g dry | 1.38E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-36-0 | Antimony | <8.76E1 | ug/g dry | 8.76E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| **HEIS No.** | **B1VJ61B** | | **Lab ID:** | **0805020-23** | | | |
| 7429-90-5 | Aluminum | 4.17E3 | ug/g dry | 3.06E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-38-2 | Arsenic | <7.44E1 | ug/g dry | 7.44E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-42-8 | Boron | <6.48E2 | ug/g dry | 6.48E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-39-3 | Barium | 4.19E1 | ug/g dry | 2.92E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-41-7 | Beryllium | <1.16E0 | ug/g dry | 1.16E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-69-9 | Bismuth | <1.55E1 | ug/g dry | 1.55E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-70-2 | Calcium | 7.23E3 | ug/g dry | 1.14E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-43-9 | Cadmium | <1.74E0 | ug/g dry | 1.74E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-48-4 | Cobalt | <6.36E0 | ug/g dry | 6.36E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-47-3 | Chromium | 7.00E0 | ug/g dry | 2.55E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-50-8 | Copper | <2.71E1 | ug/g dry | 2.71E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-89-6 | Iron | 8.80E3 | ug/g dry | 7.78E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-09-7 | Potassium | 8.09E2 | ug/g dry | 7.22E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-93-2 | Lithium | 1.11E1 | ug/g dry | 1.10E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-95-4 | Magnesium | 3.48E3 | ug/g dry | 2.41E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-96-5 | Manganese | 1.70E2 | ug/g dry | 9.11E-1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-98-7 | Molybdenum | <1.73E1 | ug/g dry | 1.73E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-02-0 | Nickel | 8.98E0 | ug/g dry | 6.26E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7723-14-0 | Phosphorus | 3.92E2 | ug/g dry | 5.74E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-92-1 | Lead | <2.42E1 | ug/g dry | 2.42E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-24-6 | Strontium | 2.54E1 | ug/g dry | 1.10E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-66-6 | Zinc | 2.28E1 | ug/g dry | 4.77E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-23-5 | Sodium | <8.16E2 | ug/g dry | 8.16E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-21-3 | Silicon | <1.06E3 | ug/g dry | 1.06E3 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7704-34-9 | Sulfur | <1.80E2 | ug/g dry | 1.80E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-32-6 | Titanium | 4.08E2 | ug/g dry | 2.40E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-67-7 | Zirconium | <1.55E1 | ug/g dry | 1.55E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-15-5 | Rhenium | <1.34E1 | ug/g dry | 1.34E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-36-0 | Antimony | <8.53E1 | ug/g dry | 8.53E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| **HEIS No.** | **B1VJ61A** | | **Lab ID:** | **0805020-24** | | | |

# Total Metals by PNNL-AGG-ICP-AES/Acid Extract

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ61A** | | **Lab ID:** | **0805020-24** | | | |
| 7429-90-5 | Aluminum | 4.37E3 | ug/g dry | 3.40E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-38-2 | Arsenic | <8.27E1 | ug/g dry | 8.27E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-42-8 | Boron | <7.20E2 | ug/g dry | 7.20E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-39-3 | Barium | 4.54E1 | ug/g dry | 3.24E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-41-7 | Beryllium | <1.29E0 | ug/g dry | 1.29E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-69-9 | Bismuth | <1.72E1 | ug/g dry | 1.72E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-70-2 | Calcium | 8.24E3 | ug/g dry | 1.26E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-43-9 | Cadmium | <1.93E0 | ug/g dry | 1.93E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-48-4 | Cobalt | <7.06E0 | ug/g dry | 7.06E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-47-3 | Chromium | 7.28E0 | ug/g dry | 2.83E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-50-8 | Copper | <3.02E1 | ug/g dry | 3.02E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-89-6 | Iron | 9.17E3 | ug/g dry | 8.65E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-09-7 | Potassium | 8.43E2 | ug/g dry | 8.03E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-93-2 | Lithium | <1.23E1 | ug/g dry | 1.23E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-95-4 | Magnesium | 3.47E3 | ug/g dry | 2.68E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-96-5 | Manganese | 2.00E2 | ug/g dry | 1.01E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-98-7 | Molybdenum | <1.92E1 | ug/g dry | 1.92E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-02-0 | Nickel | 9.34E0 | ug/g dry | 6.96E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7723-14-0 | Phosphorus | 4.08E2 | ug/g dry | 6.38E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-92-1 | Lead | <2.69E1 | ug/g dry | 2.69E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-24-6 | Strontium | 2.74E1 | ug/g dry | 1.23E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-66-6 | Zinc | 2.40E1 | ug/g dry | 5.31E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-23-5 | Sodium | <9.07E2 | ug/g dry | 9.07E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-21-3 | Silicon | <1.18E3 | ug/g dry | 1.18E3 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7704-34-9 | Sulfur | <2.01E2 | ug/g dry | 2.01E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-32-6 | Titanium | 4.73E2 | ug/g dry | 2.67E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-67-7 | Zirconium | <1.72E1 | ug/g dry | 1.72E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-15-5 | Rhenium | <1.49E1 | ug/g dry | 1.49E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-36-0 | Antimony | <9.48E1 | ug/g dry | 9.48E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| **HEIS No.** | **B1VJ62C** | | **Lab ID:** | **0805020-26** | | | |
| 7429-90-5 | Aluminum | 4.80E3 | ug/g dry | 3.58E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-38-2 | Arsenic | <8.71E1 | ug/g dry | 8.71E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-42-8 | Boron | <7.58E2 | ug/g dry | 7.58E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-39-3 | Barium | 5.20E1 | ug/g dry | 3.41E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-41-7 | Beryllium | <1.35E0 | ug/g dry | 1.35E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-69-9 | Bismuth | <1.81E1 | ug/g dry | 1.81E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-70-2 | Calcium | 8.30E3 | ug/g dry | 1.33E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-43-9 | Cadmium | <2.03E0 | ug/g dry | 2.03E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-48-4 | Cobalt | <7.44E0 | ug/g dry | 7.44E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-47-3 | Chromium | 7.56E0 | ug/g dry | 2.98E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-50-8 | Copper | <3.17E1 | ug/g dry | 3.17E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-89-6 | Iron | 8.69E3 | ug/g dry | 9.10E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-09-7 | Potassium | 1.19E3 | ug/g dry | 8.45E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-93-2 | Lithium | <1.29E1 | ug/g dry | 1.29E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-95-4 | Magnesium | 3.64E3 | ug/g dry | 2.82E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-96-5 | Manganese | 2.22E2 | ug/g dry | 1.07E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-98-7 | Molybdenum | <2.02E1 | ug/g dry | 2.02E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-02-0 | Nickel | <7.33E0 | ug/g dry | 7.33E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |

# Total Metals by PNNL-AGG-ICP-AES/Acid Extract

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ62C** | | **Lab ID:** | **0805020-26** | | | |
| 7723-14-0 | Phosphorus | 3.27E2 | ug/g dry | 6.71E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-92-1 | Lead | <2.83E1 | ug/g dry | 2.83E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-24-6 | Strontium | 2.95E1 | ug/g dry | 1.29E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-66-6 | Zinc | 2.50E1 | ug/g dry | 5.59E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-23-5 | Sodium | <9.55E2 | ug/g dry | 9.55E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-21-3 | Silicon | <1.24E3 | ug/g dry | 1.24E3 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7704-34-9 | Sulfur | <2.11E2 | ug/g dry | 2.11E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-32-6 | Titanium | 3.90E2 | ug/g dry | 2.81E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-67-7 | Zirconium | <1.81E1 | ug/g dry | 1.81E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-15-5 | Rhenium | <1.57E1 | ug/g dry | 1.57E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-36-0 | Antimony | <9.98E1 | ug/g dry | 9.98E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| **HEIS No.** | **B1VJ62B** | | **Lab ID:** | **0805020-27** | | | |
| 7429-90-5 | Aluminum | 4.61E3 | ug/g dry | 3.68E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-38-2 | Arsenic | <8.94E1 | ug/g dry | 8.94E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-42-8 | Boron | <7.79E2 | ug/g dry | 7.79E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-39-3 | Barium | 5.14E1 | ug/g dry | 3.51E0 | 7/02/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-41-7 | Beryllium | <1.39E0 | ug/g dry | 1.39E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-69-9 | Bismuth | <1.86E1 | ug/g dry | 1.86E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-70-2 | Calcium | 7.56E3 | ug/g dry | 1.37E2 | 7/02/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-43-9 | Cadmium | <2.09E0 | ug/g dry | 2.09E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-48-4 | Cobalt | <7.64E0 | ug/g dry | 7.64E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-47-3 | Chromium | 9.90E0 | ug/g dry | 3.06E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-50-8 | Copper | <3.26E1 | ug/g dry | 3.26E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-89-6 | Iron | 9.05E3 | ug/g dry | 9.35E1 | 7/02/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-09-7 | Potassium | 1.12E3 | ug/g dry | 8.68E1 | 7/02/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-93-2 | Lithium | <1.33E1 | ug/g dry | 1.33E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-95-4 | Magnesium | 3.51E3 | ug/g dry | 2.89E1 | 7/02/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-96-5 | Manganese | 2.14E2 | ug/g dry | 1.10E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-98-7 | Molybdenum | <2.07E1 | ug/g dry | 2.07E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-02-0 | Nickel | 8.89E0 | ug/g dry | 7.52E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7723-14-0 | Phosphorus | 3.44E2 | ug/g dry | 6.89E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-92-1 | Lead | <2.91E1 | ug/g dry | 2.91E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-24-6 | Strontium | 2.68E1 | ug/g dry | 1.33E0 | 7/02/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-66-6 | Zinc | 2.43E1 | ug/g dry | 5.74E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-23-5 | Sodium | <9.80E2 | ug/g dry | 9.80E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-21-3 | Silicon | <1.28E3 | ug/g dry | 1.28E3 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7704-34-9 | Sulfur | <2.17E2 | ug/g dry | 2.17E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-32-6 | Titanium | 3.39E2 | ug/g dry | 2.89E1 | 7/02/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-67-7 | Zirconium | <1.86E1 | ug/g dry | 1.86E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-15-5 | Rhenium | <1.61E1 | ug/g dry | 1.61E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-36-0 | Antimony | <1.02E2 | ug/g dry | 1.02E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| **HEIS No.** | **B1VJ62A** | | **Lab ID:** | **0805020-28** | | | |
| 7429-90-5 | Aluminum | 4.87E3 | ug/g dry | 3.73E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-38-2 | Arsenic | <9.05E1 | ug/g dry | 9.05E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-42-8 | Boron | <7.88E2 | ug/g dry | 7.88E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-39-3 | Barium | 6.10E1 | ug/g dry | 3.55E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-41-7 | Beryllium | <1.41E0 | ug/g dry | 1.41E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-69-9 | Bismuth | <1.88E1 | ug/g dry | 1.88E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |

# Total Metals by PNNL-AGG-ICP-AES/Acid Extract

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ62A** | | **Lab ID:** | **0805020-28** | | | |
| 7440-70-2 | Calcium | 8.58E3 | ug/g dry | 1.38E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-43-9 | Cadmium | <2.12E0 | ug/g dry | 2.12E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-48-4 | Cobalt | <7.73E0 | ug/g dry | 7.73E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-47-3 | Chromium | 7.56E0 | ug/g dry | 3.10E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-50-8 | Copper | <3.30E1 | ug/g dry | 3.30E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-89-6 | Iron | 9.13E3 | ug/g dry | 9.47E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-09-7 | Potassium | 1.04E3 | ug/g dry | 8.79E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-93-2 | Lithium | <1.34E1 | ug/g dry | 1.34E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-95-4 | Magnesium | 3.83E3 | ug/g dry | 2.93E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-96-5 | Manganese | 2.11E2 | ug/g dry | 1.11E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-98-7 | Molybdenum | <2.10E1 | ug/g dry | 2.10E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-02-0 | Nickel | 7.95E0 | ug/g dry | 7.62E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7723-14-0 | Phosphorus | 3.98E2 | ug/g dry | 6.98E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-92-1 | Lead | <2.95E1 | ug/g dry | 2.95E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-24-6 | Strontium | 2.82E1 | ug/g dry | 1.34E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-66-6 | Zinc | 2.55E1 | ug/g dry | 5.81E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-23-5 | Sodium | <9.93E2 | ug/g dry | 9.93E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-21-3 | Silicon | <1.29E3 | ug/g dry | 1.29E3 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7704-34-9 | Sulfur | <2.20E2 | ug/g dry | 2.20E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-32-6 | Titanium | 3.93E2 | ug/g dry | 2.92E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-67-7 | Zirconium | <1.89E1 | ug/g dry | 1.89E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-15-5 | Rhenium | <1.63E1 | ug/g dry | 1.63E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-36-0 | Antimony | <1.04E2 | ug/g dry | 1.04E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| **HEIS No.** | **B1VJ64C** | | **Lab ID:** | **0805020-30** | | | |
| 7429-90-5 | Aluminum | 4.58E3 | ug/g dry | 3.76E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-38-2 | Arsenic | <9.14E1 | ug/g dry | 9.14E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-42-8 | Boron | <7.96E2 | ug/g dry | 7.96E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-39-3 | Barium | 4.62E1 | ug/g dry | 3.59E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-41-7 | Beryllium | <1.42E0 | ug/g dry | 1.42E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-69-9 | Bismuth | <1.90E1 | ug/g dry | 1.90E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-70-2 | Calcium | 6.96E3 | ug/g dry | 1.40E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-43-9 | Cadmium | <2.14E0 | ug/g dry | 2.14E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-48-4 | Cobalt | <7.81E0 | ug/g dry | 7.81E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-47-3 | Chromium | 1.12E1 | ug/g dry | 3.13E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-50-8 | Copper | <3.33E1 | ug/g dry | 3.33E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-89-6 | Iron | 9.44E3 | ug/g dry | 9.56E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-09-7 | Potassium | 9.31E2 | ug/g dry | 8.88E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-93-2 | Lithium | <1.36E1 | ug/g dry | 1.36E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-95-4 | Magnesium | 3.58E3 | ug/g dry | 2.96E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-96-5 | Manganese | 1.92E2 | ug/g dry | 1.12E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-98-7 | Molybdenum | <2.12E1 | ug/g dry | 2.12E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-02-0 | Nickel | 1.03E1 | ug/g dry | 7.70E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7723-14-0 | Phosphorus | 3.84E2 | ug/g dry | 7.05E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-92-1 | Lead | <2.98E1 | ug/g dry | 2.98E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-24-6 | Strontium | 2.26E1 | ug/g dry | 1.36E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-66-6 | Zinc | 2.55E1 | ug/g dry | 5.87E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-23-5 | Sodium | <1.00E3 | ug/g dry | 1.00E3 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-21-3 | Silicon | <1.31E3 | ug/g dry | 1.31E3 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |

# Total Metals by PNNL-AGG-ICP-AES/Acid Extract

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ64C** | | **Lab ID:** | **0805020-30** | | | |
| 7704-34-9 | Sulfur | <2.22E2 | ug/g dry | 2.22E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-32-6 | Titanium | 4.42E2 | ug/g dry | 2.95E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-67-7 | Zirconium | <1.91E1 | ug/g dry | 1.91E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-15-5 | Rhenium | <1.65E1 | ug/g dry | 1.65E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-36-0 | Antimony | <1.05E2 | ug/g dry | 1.05E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| **HEIS No.** | **B1VJ64B** | | **Lab ID:** | **0805020-31** | | | |
| 7429-90-5 | Aluminum | 4.41E3 | ug/g dry | 3.34E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-38-2 | Arsenic | <8.12E1 | ug/g dry | 8.12E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-42-8 | Boron | <7.07E2 | ug/g dry | 7.07E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-39-3 | Barium | 4.34E1 | ug/g dry | 3.18E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-41-7 | Beryllium | <1.26E0 | ug/g dry | 1.26E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-69-9 | Bismuth | <1.69E1 | ug/g dry | 1.69E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-70-2 | Calcium | 6.45E3 | ug/g dry | 1.24E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-43-9 | Cadmium | <1.90E0 | ug/g dry | 1.90E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-48-4 | Cobalt | <6.94E0 | ug/g dry | 6.94E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-47-3 | Chromium | 1.56E1 | ug/g dry | 2.78E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-50-8 | Copper | <2.96E1 | ug/g dry | 2.96E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-89-6 | Iron | 9.28E3 | ug/g dry | 8.49E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-09-7 | Potassium | 9.00E2 | ug/g dry | 7.88E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-93-2 | Lithium | <1.20E1 | ug/g dry | 1.20E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-95-4 | Magnesium | 3.67E3 | ug/g dry | 2.63E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-96-5 | Manganese | 1.88E2 | ug/g dry | 9.95E-1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-98-7 | Molybdenum | <1.88E1 | ug/g dry | 1.88E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-02-0 | Nickel | 1.39E1 | ug/g dry | 6.83E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7723-14-0 | Phosphorus | 3.95E2 | ug/g dry | 6.26E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-92-1 | Lead | <2.64E1 | ug/g dry | 2.64E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-24-6 | Strontium | 2.36E1 | ug/g dry | 1.20E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-66-6 | Zinc | 2.31E1 | ug/g dry | 5.21E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-23-5 | Sodium | <8.91E2 | ug/g dry | 8.91E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-21-3 | Silicon | <1.16E3 | ug/g dry | 1.16E3 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7704-34-9 | Sulfur | <1.97E2 | ug/g dry | 1.97E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-32-6 | Titanium | 4.26E2 | ug/g dry | 2.62E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-67-7 | Zirconium | <1.69E1 | ug/g dry | 1.69E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-15-5 | Rhenium | <1.47E1 | ug/g dry | 1.47E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-36-0 | Antimony | <9.30E1 | ug/g dry | 9.30E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| **HEIS No.** | **B1VJ64A** | | **Lab ID:** | **0805020-32** | | | |
| 7429-90-5 | Aluminum | 4.77E3 | ug/g dry | 3.55E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-38-2 | Arsenic | <8.62E1 | ug/g dry | 8.62E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-42-8 | Boron | <7.51E2 | ug/g dry | 7.51E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-39-3 | Barium | 4.52E1 | ug/g dry | 3.38E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-41-7 | Beryllium | <1.34E0 | ug/g dry | 1.34E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-69-9 | Bismuth | <1.79E1 | ug/g dry | 1.79E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-70-2 | Calcium | 6.59E3 | ug/g dry | 1.32E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-43-9 | Cadmium | <2.01E0 | ug/g dry | 2.01E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-48-4 | Cobalt | <7.36E0 | ug/g dry | 7.36E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-47-3 | Chromium | 1.11E1 | ug/g dry | 2.95E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-50-8 | Copper | <3.14E1 | ug/g dry | 3.14E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-89-6 | Iron | 9.52E3 | ug/g dry | 9.01E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |

# Total Metals by PNNL-AGG-ICP-AES/Acid Extract

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ64A** | | **Lab ID:** | **0805020-32** | | | |
| 7440-09-7 | Potassium | 8.94E2 | ug/g dry | 8.37E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-93-2 | Lithium | <1.28E1 | ug/g dry | 1.28E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-95-4 | Magnesium | 3.89E3 | ug/g dry | 2.79E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-96-5 | Manganese | 1.98E2 | ug/g dry | 1.06E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-98-7 | Molybdenum | <2.00E1 | ug/g dry | 2.00E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-02-0 | Nickel | 1.23E1 | ug/g dry | 7.25E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7723-14-0 | Phosphorus | 4.16E2 | ug/g dry | 6.64E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7439-92-1 | Lead | <2.80E1 | ug/g dry | 2.80E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-24-6 | Strontium | 2.35E1 | ug/g dry | 1.28E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-66-6 | Zinc | 2.30E1 | ug/g dry | 5.53E0 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-23-5 | Sodium | <9.45E2 | ug/g dry | 9.45E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-21-3 | Silicon | <1.23E3 | ug/g dry | 1.23E3 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7704-34-9 | Sulfur | <2.09E2 | ug/g dry | 2.09E2 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-32-6 | Titanium | 4.21E2 | ug/g dry | 2.78E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-67-7 | Zirconium | <1.80E1 | ug/g dry | 1.80E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-15-5 | Rhenium | <1.56E1 | ug/g dry | 1.56E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |
| 7440-36-0 | Antimony | <9.88E1 | ug/g dry | 9.88E1 | 7/01/08 | 8G01001 | PNNL-AGG-ICP-AES |

# Radionuclides by ICP-MS/Acid Extract

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ54B** | | **Lab ID:** | **0805020-01** | | | |
| 13994-20-2 | Neptunium-237 | <3.19E-3 | ug/g dry | 3.19E-3 | 7/17/08 | 8G15009 | PNNL-AGG-415 |
| 15117-48-3 | Plutonium-239 | <7.94E-3 | ug/g dry | 7.94E-3 | 7/17/08 | 8G15009 | PNNL-AGG-415 |
| 14596-10-2 | Americium-241 | <6.86E-3 | ug/g dry | 6.86E-3 | 7/17/08 | 8G15009 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ55C** | | **Lab ID:** | **0805020-05** | | | |
| 13994-20-2 | Neptunium-237 | <3.73E-3 | ug/g dry | 3.73E-3 | 7/17/08 | 8G15009 | PNNL-AGG-415 |
| 15117-48-3 | Plutonium-239 | <9.27E-3 | ug/g dry | 9.27E-3 | 7/17/08 | 8G15009 | PNNL-AGG-415 |
| 14596-10-2 | Americium-241 | <8.02E-3 | ug/g dry | 8.02E-3 | 7/17/08 | 8G15009 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ56A** | | **Lab ID:** | **0805020-07** | | | |
| 13994-20-2 | Neptunium-237 | <3.10E-3 | ug/g dry | 3.10E-3 | 7/17/08 | 8G15010 | PNNL-AGG-415 |
| 15117-48-3 | Plutonium-239 | <7.72E-3 | ug/g dry | 7.72E-3 | 7/17/08 | 8G15010 | PNNL-AGG-415 |
| 14596-10-2 | Americium-241 | <6.68E-3 | ug/g dry | 6.68E-3 | 7/17/08 | 8G15010 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ56B** | | **Lab ID:** | **0805020-08** | | | |
| 13994-20-2 | Neptunium-237 | <3.33E-3 | ug/g dry | 3.33E-3 | 7/17/08 | 8G15009 | PNNL-AGG-415 |
| 15117-48-3 | Plutonium-239 | <8.27E-3 | ug/g dry | 8.27E-3 | 7/17/08 | 8G15009 | PNNL-AGG-415 |
| 14596-10-2 | Americium-241 | <7.15E-3 | ug/g dry | 7.15E-3 | 7/17/08 | 8G15009 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ56C** | | **Lab ID:** | **0805020-09** | | | |
| 13994-20-2 | Neptunium-237 | <3.22E-3 | ug/g dry | 3.22E-3 | 7/17/08 | 8G15009 | PNNL-AGG-415 |
| 15117-48-3 | Plutonium-239 | <8.00E-3 | ug/g dry | 8.00E-3 | 7/17/08 | 8G15009 | PNNL-AGG-415 |
| 14596-10-2 | Americium-241 | <6.92E-3 | ug/g dry | 6.92E-3 | 7/17/08 | 8G15009 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ58C** | | **Lab ID:** | **0805020-10** | | | |
| 13994-20-2 | Neptunium-237 | <3.44E-3 | ug/g dry | 3.44E-3 | 7/17/08 | 8G15009 | PNNL-AGG-415 |
| 15117-48-3 | Plutonium-239 | <8.54E-3 | ug/g dry | 8.54E-3 | 7/17/08 | 8G15009 | PNNL-AGG-415 |
| 14596-10-2 | Americium-241 | <7.39E-3 | ug/g dry | 7.39E-3 | 7/17/08 | 8G15009 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ58B** | | **Lab ID:** | **0805020-11** | | | |
| 13994-20-2 | Neptunium-237 | <3.66E-3 | ug/g dry | 3.66E-3 | 7/17/08 | 8G15009 | PNNL-AGG-415 |
| 15117-48-3 | Plutonium-239 | <9.09E-3 | ug/g dry | 9.09E-3 | 7/17/08 | 8G15009 | PNNL-AGG-415 |
| 14596-10-2 | Americium-241 | <7.87E-3 | ug/g dry | 7.87E-3 | 7/17/08 | 8G15009 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ58A** | | **Lab ID:** | **0805020-12** | | | |
| 13994-20-2 | Neptunium-237 | <3.74E-3 | ug/g dry | 3.74E-3 | 7/17/08 | 8G15009 | PNNL-AGG-415 |
| 15117-48-3 | Plutonium-239 | <9.31E-3 | ug/g dry | 9.31E-3 | 7/17/08 | 8G15009 | PNNL-AGG-415 |
| 14596-10-2 | Americium-241 | <8.05E-3 | ug/g dry | 8.05E-3 | 7/17/08 | 8G15009 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ59C** | | **Lab ID:** | **0805020-14** | | | |
| 13994-20-2 | Neptunium-237 | <3.49E-3 | ug/g dry | 3.49E-3 | 7/17/08 | 8G15009 | PNNL-AGG-415 |
| 15117-48-3 | Plutonium-239 | <8.67E-3 | ug/g dry | 8.67E-3 | 7/17/08 | 8G15009 | PNNL-AGG-415 |
| 14596-10-2 | Americium-241 | <7.50E-3 | ug/g dry | 7.50E-3 | 7/17/08 | 8G15009 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ59B** | | **Lab ID:** | **0805020-15** | | | |
| 13994-20-2 | Neptunium-237 | <3.30E-3 | ug/g dry | 3.30E-3 | 7/17/08 | 8G15009 | PNNL-AGG-415 |
| 15117-48-3 | Plutonium-239 | <8.21E-3 | ug/g dry | 8.21E-3 | 7/17/08 | 8G15009 | PNNL-AGG-415 |
| 14596-10-2 | Americium-241 | <7.10E-3 | ug/g dry | 7.10E-3 | 7/17/08 | 8G15009 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ59A** | | **Lab ID:** | **0805020-16** | | | |
| 13994-20-2 | Neptunium-237 | <3.27E-3 | ug/g dry | 3.27E-3 | 7/17/08 | 8G15009 | PNNL-AGG-415 |
| 15117-48-3 | Plutonium-239 | <8.12E-3 | ug/g dry | 8.12E-3 | 7/17/08 | 8G15009 | PNNL-AGG-415 |
| 14596-10-2 | Americium-241 | <7.03E-3 | ug/g dry | 7.03E-3 | 7/17/08 | 8G15009 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ60C** | | **Lab ID:** | **0805020-18** | | | |
| 13994-20-2 | Neptunium-237 | <3.15E-3 | ug/g dry | 3.15E-3 | 7/17/08 | 8G15009 | PNNL-AGG-415 |
| 15117-48-3 | Plutonium-239 | <7.83E-3 | ug/g dry | 7.83E-3 | 7/17/08 | 8G15009 | PNNL-AGG-415 |
| 14596-10-2 | Americium-241 | <6.78E-3 | ug/g dry | 6.78E-3 | 7/17/08 | 8G15009 | PNNL-AGG-415 |

# Radionuclides by ICP-MS/Acid Extract

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ60B** | | **Lab ID:** | **0805020-19** | | | |
| 13994-20-2 | Neptunium-237 | <3.33E-3 | ug/g dry | 3.33E-3 | 7/17/08 | 8G15009 | PNNL-AGG-415 |
| 15117-48-3 | Plutonium-239 | <8.28E-3 | ug/g dry | 8.28E-3 | 7/17/08 | 8G15009 | PNNL-AGG-415 |
| 14596-10-2 | Americium-241 | <7.16E-3 | ug/g dry | 7.16E-3 | 7/17/08 | 8G15009 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ60A** | | **Lab ID:** | **0805020-20** | | | |
| 13994-20-2 | Neptunium-237 | <3.27E-3 | ug/g dry | 3.27E-3 | 7/17/08 | 8G15009 | PNNL-AGG-415 |
| 15117-48-3 | Plutonium-239 | <8.12E-3 | ug/g dry | 8.12E-3 | 7/17/08 | 8G15009 | PNNL-AGG-415 |
| 14596-10-2 | Americium-241 | <7.02E-3 | ug/g dry | 7.02E-3 | 7/17/08 | 8G15009 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ61C** | | **Lab ID:** | **0805020-22** | | | |
| 13994-20-2 | Neptunium-237 | <2.93E-3 | ug/g dry | 2.93E-3 | 7/17/08 | 8G15009 | PNNL-AGG-415 |
| 15117-48-3 | Plutonium-239 | <7.28E-3 | ug/g dry | 7.28E-3 | 7/17/08 | 8G15009 | PNNL-AGG-415 |
| 14596-10-2 | Americium-241 | <6.30E-3 | ug/g dry | 6.30E-3 | 7/17/08 | 8G15009 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ61B** | | **Lab ID:** | **0805020-23** | | | |
| 13994-20-2 | Neptunium-237 | <2.85E-3 | ug/g dry | 2.85E-3 | 7/17/08 | 8G15009 | PNNL-AGG-415 |
| 15117-48-3 | Plutonium-239 | <7.08E-3 | ug/g dry | 7.08E-3 | 7/17/08 | 8G15009 | PNNL-AGG-415 |
| 14596-10-2 | Americium-241 | <6.13E-3 | ug/g dry | 6.13E-3 | 7/17/08 | 8G15009 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ61A** | | **Lab ID:** | **0805020-24** | | | |
| 13994-20-2 | Neptunium-237 | <3.17E-3 | ug/g dry | 3.17E-3 | 7/17/08 | 8G15009 | PNNL-AGG-415 |
| 15117-48-3 | Plutonium-239 | <7.87E-3 | ug/g dry | 7.87E-3 | 7/17/08 | 8G15009 | PNNL-AGG-415 |
| 14596-10-2 | Americium-241 | <6.81E-3 | ug/g dry | 6.81E-3 | 7/17/08 | 8G15009 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ62C** | | **Lab ID:** | **0805020-26** | | | |
| 13994-20-2 | Neptunium-237 | <3.33E-3 | ug/g dry | 3.33E-3 | 7/17/08 | 8G15009 | PNNL-AGG-415 |
| 15117-48-3 | Plutonium-239 | <8.29E-3 | ug/g dry | 8.29E-3 | 7/17/08 | 8G15009 | PNNL-AGG-415 |
| 14596-10-2 | Americium-241 | <7.17E-3 | ug/g dry | 7.17E-3 | 7/17/08 | 8G15009 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ62B** | | **Lab ID:** | **0805020-27** | | | |
| 13994-20-2 | Neptunium-237 | <3.42E-3 | ug/g dry | 3.42E-3 | 7/17/08 | 8G15010 | PNNL-AGG-415 |
| 15117-48-3 | Plutonium-239 | <8.51E-3 | ug/g dry | 8.51E-3 | 7/17/08 | 8G15010 | PNNL-AGG-415 |
| 14596-10-2 | Americium-241 | <7.36E-3 | ug/g dry | 7.36E-3 | 7/17/08 | 8G15010 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ62A** | | **Lab ID:** | **0805020-28** | | | |
| 13994-20-2 | Neptunium-237 | <3.47E-3 | ug/g dry | 3.47E-3 | 7/18/08 | 8G15010 | PNNL-AGG-415 |
| 15117-48-3 | Plutonium-239 | <8.62E-3 | ug/g dry | 8.62E-3 | 7/18/08 | 8G15010 | PNNL-AGG-415 |
| 14596-10-2 | Americium-241 | <7.46E-3 | ug/g dry | 7.46E-3 | 7/18/08 | 8G15010 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ64C** | | **Lab ID:** | **0805020-30** | | | |
| 13994-20-2 | Neptunium-237 | <3.50E-3 | ug/g dry | 3.50E-3 | 7/18/08 | 8G15010 | PNNL-AGG-415 |
| 15117-48-3 | Plutonium-239 | <8.71E-3 | ug/g dry | 8.71E-3 | 7/18/08 | 8G15010 | PNNL-AGG-415 |
| 14596-10-2 | Americium-241 | <7.53E-3 | ug/g dry | 7.53E-3 | 7/18/08 | 8G15010 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ64B** | | **Lab ID:** | **0805020-31** | | | |
| 13994-20-2 | Neptunium-237 | <3.11E-3 | ug/g dry | 3.11E-3 | 7/18/08 | 8G15010 | PNNL-AGG-415 |
| 15117-48-3 | Plutonium-239 | <7.73E-3 | ug/g dry | 7.73E-3 | 7/18/08 | 8G15010 | PNNL-AGG-415 |
| 14596-10-2 | Americium-241 | <6.69E-3 | ug/g dry | 6.69E-3 | 7/18/08 | 8G15010 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ64A** | | **Lab ID:** | **0805020-32** | | | |
| 13994-20-2 | Neptunium-237 | <3.30E-3 | ug/g dry | 3.30E-3 | 7/18/08 | 8G15010 | PNNL-AGG-415 |
| 15117-48-3 | Plutonium-239 | <8.21E-3 | ug/g dry | 8.21E-3 | 7/18/08 | 8G15010 | PNNL-AGG-415 |
| 14596-10-2 | Americium-241 | <7.10E-3 | ug/g dry | 7.10E-3 | 7/18/08 | 8G15010 | PNNL-AGG-415 |

# Radionuclides by ICP-MS/Acid Extract

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ54B** | | **Lab ID:** | **0805020-01** | | | |
| 14133-76-7 | Technetium-99 | <4.13E-3 | ug/g dry | 4.13E-3 | 7/02/08 | 8G02004 | PNNL-AGG-415 |
| | Uranium 238 | 1.01E0 | ug/g dry | 3.00E-2 | 7/02/08 | 8G02004 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ55C** | | **Lab ID:** | **0805020-05** | | | |
| 14133-76-7 | Technetium-99 | <4.83E-3 | ug/g dry | 4.83E-3 | 7/02/08 | 8G02004 | PNNL-AGG-415 |
| | Uranium 238 | 3.84E-1 | ug/g dry | 3.50E-2 | 7/02/08 | 8G02004 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ56A** | | **Lab ID:** | **0805020-07** | | | |
| 14133-76-7 | Technetium-99 | <4.02E-3 | ug/g dry | 4.02E-3 | 7/02/08 | 8G02006 | PNNL-AGG-415 |
| | Uranium 238 | 2.88E-1 | ug/g dry | 2.92E-2 | 7/02/08 | 8G02006 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ56B** | | **Lab ID:** | **0805020-08** | | | |
| 14133-76-7 | Technetium-99 | <4.31E-3 | ug/g dry | 4.31E-3 | 7/02/08 | 8G02004 | PNNL-AGG-415 |
| | Uranium 238 | 3.18E-1 | ug/g dry | 3.13E-2 | 7/02/08 | 8G02004 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ56C** | | **Lab ID:** | **0805020-09** | | | |
| 14133-76-7 | Technetium-99 | <4.17E-3 | ug/g dry | 4.17E-3 | 7/02/08 | 8G02004 | PNNL-AGG-415 |
| | Uranium 238 | 3.11E-1 | ug/g dry | 3.03E-2 | 7/02/08 | 8G02004 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ58C** | | **Lab ID:** | **0805020-10** | | | |
| 14133-76-7 | Technetium-99 | <4.45E-3 | ug/g dry | 4.45E-3 | 7/02/08 | 8G02004 | PNNL-AGG-415 |
| | Uranium 238 | 5.01E-1 | ug/g dry | 3.23E-2 | 7/02/08 | 8G02004 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ58B** | | **Lab ID:** | **0805020-11** | | | |
| 14133-76-7 | Technetium-99 | <4.74E-3 | ug/g dry | 4.74E-3 | 7/02/08 | 8G02004 | PNNL-AGG-415 |
| | Uranium 238 | 5.27E-1 | ug/g dry | 3.44E-2 | 7/02/08 | 8G02004 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ58A** | | **Lab ID:** | **0805020-12** | | | |
| 14133-76-7 | Technetium-99 | <4.85E-3 | ug/g dry | 4.85E-3 | 7/02/08 | 8G02004 | PNNL-AGG-415 |
| | Uranium 238 | 7.53E-1 | ug/g dry | 3.52E-2 | 7/02/08 | 8G02004 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ59C** | | **Lab ID:** | **0805020-14** | | | |
| 14133-76-7 | Technetium-99 | <4.51E-3 | ug/g dry | 4.51E-3 | 7/02/08 | 8G02004 | PNNL-AGG-415 |
| | Uranium 238 | 3.16E-1 | ug/g dry | 3.28E-2 | 7/02/08 | 8G02004 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ59B** | | **Lab ID:** | **0805020-15** | | | |
| 14133-76-7 | Technetium-99 | <4.28E-3 | ug/g dry | 4.28E-3 | 7/02/08 | 8G02004 | PNNL-AGG-415 |
| | Uranium 238 | 3.15E-1 | ug/g dry | 3.11E-2 | 7/02/08 | 8G02004 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ59A** | | **Lab ID:** | **0805020-16** | | | |
| 14133-76-7 | Technetium-99 | <4.23E-3 | ug/g dry | 4.23E-3 | 7/02/08 | 8G02004 | PNNL-AGG-415 |
| | Uranium 238 | 3.65E-1 | ug/g dry | 3.07E-2 | 7/02/08 | 8G02004 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ60C** | | **Lab ID:** | **0805020-18** | | | |
| 14133-76-7 | Technetium-99 | <4.08E-3 | ug/g dry | 4.08E-3 | 7/02/08 | 8G02004 | PNNL-AGG-415 |
| | Uranium 238 | 3.76E-1 | ug/g dry | 2.96E-2 | 7/02/08 | 8G02004 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ60B** | | **Lab ID:** | **0805020-19** | | | |
| 14133-76-7 | Technetium-99 | <4.31E-3 | ug/g dry | 4.31E-3 | 7/02/08 | 8G02004 | PNNL-AGG-415 |
| | Uranium 238 | 3.34E-1 | ug/g dry | 3.13E-2 | 7/02/08 | 8G02004 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ60A** | | **Lab ID:** | **0805020-20** | | | |
| 14133-76-7 | Technetium-99 | <4.23E-3 | ug/g dry | 4.23E-3 | 7/02/08 | 8G02004 | PNNL-AGG-415 |
| | Uranium 238 | 3.66E-1 | ug/g dry | 3.07E-2 | 7/02/08 | 8G02004 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ61C** | | **Lab ID:** | **0805020-22** | | | |
| 14133-76-7 | Technetium-99 | <3.79E-3 | ug/g dry | 3.79E-3 | 7/02/08 | 8G02004 | PNNL-AGG-415 |
| | Uranium 238 | 3.11E-1 | ug/g dry | 2.75E-2 | 7/02/08 | 8G02004 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ61B** | | **Lab ID:** | **0805020-23** | | | |
| 14133-76-7 | Technetium-99 | <3.69E-3 | ug/g dry | 3.69E-3 | 7/02/08 | 8G02004 | PNNL-AGG-415 |

# Radionuclides by ICP-MS/Acid Extract

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ61B** | | **Lab ID:** | **0805020-23** | | | |
| | Uranium 238 | 2.93E-1 | ug/g dry | 2.68E-2 | 7/02/08 | 8G02004 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ61A** | | **Lab ID:** | **0805020-24** | | | |
| 14133-76-7 | Technetium-99 | <4.10E-3 | ug/g dry | 4.10E-3 | 7/02/08 | 8G02004 | PNNL-AGG-415 |
| | Uranium 238 | 3.39E-1 | ug/g dry | 2.98E-2 | 7/02/08 | 8G02004 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ62C** | | **Lab ID:** | **0805020-26** | | | |
| 14133-76-7 | Technetium-99 | <4.32E-3 | ug/g dry | 4.32E-3 | 7/02/08 | 8G02004 | PNNL-AGG-415 |
| | Uranium 238 | 2.94E-1 | ug/g dry | 3.13E-2 | 7/02/08 | 8G02004 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ62B** | | **Lab ID:** | **0805020-27** | | | |
| 14133-76-7 | Technetium-99 | <4.43E-3 | ug/g dry | 4.43E-3 | 7/02/08 | 8G02006 | PNNL-AGG-415 |
| | Uranium 238 | 3.59E-1 | ug/g dry | 3.22E-2 | 7/02/08 | 8G02006 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ62A** | | **Lab ID:** | **0805020-28** | | | |
| 14133-76-7 | Technetium-99 | <4.49E-3 | ug/g dry | 4.49E-3 | 7/02/08 | 8G02006 | PNNL-AGG-415 |
| | Uranium 238 | 3.63E-1 | ug/g dry | 3.26E-2 | 7/02/08 | 8G02006 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ64C** | | **Lab ID:** | **0805020-30** | | | |
| 14133-76-7 | Technetium-99 | <4.53E-3 | ug/g dry | 4.53E-3 | 7/02/08 | 8G02006 | PNNL-AGG-415 |
| | Uranium 238 | 3.53E-1 | ug/g dry | 3.29E-2 | 7/02/08 | 8G02006 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ64B** | | **Lab ID:** | **0805020-31** | | | |
| 14133-76-7 | Technetium-99 | <4.03E-3 | ug/g dry | 4.03E-3 | 7/02/08 | 8G02006 | PNNL-AGG-415 |
| | Uranium 238 | 3.16E-1 | ug/g dry | 2.92E-2 | 7/02/08 | 8G02006 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ64A** | | **Lab ID:** | **0805020-32** | | | |
| 14133-76-7 | Technetium-99 | <4.27E-3 | ug/g dry | 4.27E-3 | 7/02/08 | 8G02006 | PNNL-AGG-415 |
| | Uranium 238 | 2.31E-1 | ug/g dry | 3.10E-2 | 7/02/08 | 8G02006 | PNNL-AGG-415 |

# Radionuclides by ICP-MS/Water Extract

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ54B** | | **Lab ID:** | **0805020-01** | | | |
| 14133-76-7 | Technetium-99 | <2.34E-5 | ug/g dry | 2.34E-5 | 7/01/08 | 8G01002 | PNNL-AGG-415 |
| | Uranium 238 | 9.84E-2 | ug/g dry | 5.72E-4 | 7/01/08 | 8G01002 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ55C** | | **Lab ID:** | **0805020-05** | | | |
| 14133-76-7 | Technetium-99 | <2.30E-5 | ug/g dry | 2.30E-5 | 7/01/08 | 8G01002 | PNNL-AGG-415 |
| | Uranium 238 | 3.93E-3 | ug/g dry | 5.63E-4 | 7/01/08 | 8G01002 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ56A** | | **Lab ID:** | **0805020-07** | | | |
| 14133-76-7 | Technetium-99 | <2.47E-5 | ug/g dry | 2.47E-5 | 7/01/08 | 8G01002 | PNNL-AGG-415 |
| | Uranium 238 | 9.66E-3 | ug/g dry | 6.04E-4 | 7/01/08 | 8G01002 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ56B** | | **Lab ID:** | **0805020-08** | | | |
| 14133-76-7 | Technetium-99 | <2.30E-5 | ug/g dry | 2.30E-5 | 7/01/08 | 8G01002 | PNNL-AGG-415 |
| | Uranium 238 | 2.90E-2 | ug/g dry | 5.64E-4 | 7/01/08 | 8G01002 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ56C** | | **Lab ID:** | **0805020-09** | | | |
| 14133-76-7 | Technetium-99 | <2.30E-5 | ug/g dry | 2.30E-5 | 7/01/08 | 8G01002 | PNNL-AGG-415 |
| | Uranium 238 | 6.90E-3 | ug/g dry | 5.64E-4 | 7/01/08 | 8G01002 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ58C** | | **Lab ID:** | **0805020-10** | | | |
| 14133-76-7 | Technetium-99 | 3.26E-5 | ug/g dry | 2.30E-5 | 7/01/08 | 8G01002 | PNNL-AGG-415 |
| | Uranium 238 | 1.88E-1 | ug/g dry | 5.64E-4 | 7/01/08 | 8G01002 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ58B** | | **Lab ID:** | **0805020-11** | | | |
| 14133-76-7 | Technetium-99 | 4.93E-5 | ug/g dry | 2.31E-5 | 7/22/08 | 8G01002 | PNNL-AGG-415 |
| | Uranium 238 | 3.18E-1 | ug/g dry | 5.67E-4 | 7/22/08 | 8G01002 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ58A** | | **Lab ID:** | **0805020-12** | | | |
| 14133-76-7 | Technetium-99 | 6.83E-5 | ug/g dry | 2.30E-5 | 7/01/08 | 8G01002 | PNNL-AGG-415 |
| | Uranium 238 | 4.59E-1 | ug/g dry | 5.63E-4 | 7/01/08 | 8G01002 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ59C** | | **Lab ID:** | **0805020-14** | | | |
| 14133-76-7 | Technetium-99 | <2.30E-5 | ug/g dry | 2.30E-5 | 7/01/08 | 8G01002 | PNNL-AGG-415 |
| | Uranium 238 | 1.70E-3 | ug/g dry | 5.64E-4 | 7/01/08 | 8G01002 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ59B** | | **Lab ID:** | **0805020-15** | | | |
| 14133-76-7 | Technetium-99 | <2.30E-5 | ug/g dry | 2.30E-5 | 7/01/08 | 8G01002 | PNNL-AGG-415 |
| | Uranium 238 | <5.64E-4 | ug/g dry | 5.64E-4 | 7/01/08 | 8G01002 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ59A** | | **Lab ID:** | **0805020-16** | | | |
| 14133-76-7 | Technetium-99 | <2.32E-5 | ug/g dry | 2.32E-5 | 7/01/08 | 8G01002 | PNNL-AGG-415 |
| | Uranium 238 | <5.68E-4 | ug/g dry | 5.68E-4 | 7/01/08 | 8G01002 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ60C** | | **Lab ID:** | **0805020-18** | | | |
| 14133-76-7 | Technetium-99 | <2.30E-5 | ug/g dry | 2.30E-5 | 7/01/08 | 8G01002 | PNNL-AGG-415 |
| | Uranium 238 | 7.66E-4 | ug/g dry | 5.63E-4 | 7/01/08 | 8G01002 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ60B** | | **Lab ID:** | **0805020-19** | | | |
| 14133-76-7 | Technetium-99 | <2.30E-5 | ug/g dry | 2.30E-5 | 7/01/08 | 8G01002 | PNNL-AGG-415 |
| | Uranium 238 | 6.47E-4 | ug/g dry | 5.64E-4 | 7/01/08 | 8G01002 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ60A** | | **Lab ID:** | **0805020-20** | | | |
| 14133-76-7 | Technetium-99 | <2.30E-5 | ug/g dry | 2.30E-5 | 7/01/08 | 8G01002 | PNNL-AGG-415 |
| | Uranium 238 | <5.64E-4 | ug/g dry | 5.64E-4 | 7/01/08 | 8G01002 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ61C** | | **Lab ID:** | **0805020-22** | | | |
| 14133-76-7 | Technetium-99 | <2.30E-5 | ug/g dry | 2.30E-5 | 7/01/08 | 8G01002 | PNNL-AGG-415 |
| | Uranium 238 | <5.63E-4 | ug/g dry | 5.63E-4 | 7/01/08 | 8G01002 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ61B** | | **Lab ID:** | **0805020-23** | | | |
| 14133-76-7 | Technetium-99 | <2.32E-5 | ug/g dry | 2.32E-5 | 7/01/08 | 8G01002 | PNNL-AGG-415 |

# Radionuclides by ICP-MS/Water Extract

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ61B** | | **Lab ID:** | **0805020-23** | | | |
| | Uranium 238 | <5.69E-4 | ug/g dry | 5.69E-4 | 7/01/08 | 8G01002 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ61A** | | **Lab ID:** | **0805020-24** | | | |
| 14133-76-7 | Technetium-99 | <2.39E-5 | ug/g dry | 2.39E-5 | 7/01/08 | 8G01002 | PNNL-AGG-415 |
| | Uranium 238 | <5.85E-4 | ug/g dry | 5.85E-4 | 7/01/08 | 8G01002 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ62C** | | **Lab ID:** | **0805020-26** | | | |
| 14133-76-7 | Technetium-99 | <2.30E-5 | ug/g dry | 2.30E-5 | 7/01/08 | 8G01002 | PNNL-AGG-415 |
| | Uranium 238 | 8.87E-4 | ug/g dry | 5.63E-4 | 7/01/08 | 8G01002 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ62B** | | **Lab ID:** | **0805020-27** | | | |
| 14133-76-7 | Technetium-99 | <2.30E-5 | ug/g dry | 2.30E-5 | 7/01/08 | 8G01003 | PNNL-AGG-415 |
| | Uranium 238 | <5.64E-4 | ug/g dry | 5.64E-4 | 7/01/08 | 8G01003 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ62A** | | **Lab ID:** | **0805020-28** | | | |
| 14133-76-7 | Technetium-99 | <2.30E-5 | ug/g dry | 2.30E-5 | 7/01/08 | 8G01003 | PNNL-AGG-415 |
| | Uranium 238 | <5.64E-4 | ug/g dry | 5.64E-4 | 7/01/08 | 8G01003 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ64C** | | **Lab ID:** | **0805020-30** | | | |
| 14133-76-7 | Technetium-99 | <2.30E-5 | ug/g dry | 2.30E-5 | 7/01/08 | 8G01003 | PNNL-AGG-415 |
| | Uranium 238 | 5.66E-4 | ug/g dry | 5.64E-4 | 7/01/08 | 8G01003 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ64B** | | **Lab ID:** | **0805020-31** | | | |
| 14133-76-7 | Technetium-99 | <2.30E-5 | ug/g dry | 2.30E-5 | 7/01/08 | 8G01003 | PNNL-AGG-415 |
| | Uranium 238 | <5.63E-4 | ug/g dry | 5.63E-4 | 7/01/08 | 8G01003 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ64A** | | **Lab ID:** | **0805020-32** | | | |
| 14133-76-7 | Technetium-99 | <2.18E-5 | ug/g dry | 2.18E-5 | 7/01/08 | 8G01003 | PNNL-AGG-415 |
| | Uranium 238 | <5.35E-4 | ug/g dry | 5.35E-4 | 7/01/08 | 8G01003 | PNNL-AGG-415 |

# RCRA Metals By PNNL-AGG-415/Water Extract

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ54B** | | **Lab ID:** | **0805020-01** | | | |
| 14092-98-9 | Chromium 52 | 2.23E-3 | ug/g dry | 2.09E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 13981-78-7 | Chromium 53 | <6.50E-3 | ug/g dry | 6.50E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14191-84-5 | Copper 63 | 4.46E-3 | ug/g dry | 3.53E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14119-06-3 | Copper 65 | <4.92E-3 | ug/g dry | 4.92E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14687-58-2 | Selenium 82 | <1.12E-2 | ug/g dry | 1.12E-2 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14392-17-7 | Molybdenum 95 | 6.73E-3 | ug/g dry | 1.63E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14392-19-9 | Molybdenum 97 | 6.69E-3 | ug/g dry | 2.08E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14392-20-2 | Molybdenum 98 | 6.54E-3 | ug/g dry | 1.63E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14914-61-5 | Ruthenium 101 | <8.33E-4 | ug/g dry | 8.33E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14914-62-6 | Ruthenium 102 | <5.74E-4 | ug/g dry | 5.74E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 15766-01-5 | Ruthenium 104 | <3.71E-4 | ug/g dry | 3.71E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14378-37-1 | Silver 107 | <9.40E-4 | ug/g dry | 9.40E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14378-38-2 | Silver 109 | <1.09E-3 | ug/g dry | 1.09E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14336-64-2 | Cadmium 111 | <3.00E-4 | ug/g dry | 3.00E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14041-58-8 | Cadmium 114 | <6.35E-4 | ug/g dry | 6.35E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14265-72-6 | Antimony 121 | 6.63E-4 | ug/g dry | 5.48E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 13966-27-3 | Lead 206 | 1.39E-3 | ug/g dry | 7.31E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 13966-28-4 | Lead 208 | 1.41E-3 | ug/g dry | 5.69E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ55C** | | **Lab ID:** | **0805020-05** | | | |
| 14092-98-9 | Chromium 52 | 2.23E-3 | ug/g dry | 2.05E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 13981-78-7 | Chromium 53 | <6.40E-3 | ug/g dry | 6.40E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14191-84-5 | Copper 63 | 5.62E-3 | ug/g dry | 3.48E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14119-06-3 | Copper 65 | 5.29E-3 | ug/g dry | 4.84E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14687-58-2 | Selenium 82 | <1.10E-2 | ug/g dry | 1.10E-2 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14392-17-7 | Molybdenum 95 | 7.95E-3 | ug/g dry | 1.60E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14392-19-9 | Molybdenum 97 | 8.16E-3 | ug/g dry | 2.04E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14392-20-2 | Molybdenum 98 | 7.92E-3 | ug/g dry | 1.60E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14914-61-5 | Ruthenium 101 | <8.20E-4 | ug/g dry | 8.20E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14914-62-6 | Ruthenium 102 | <5.65E-4 | ug/g dry | 5.65E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 15766-01-5 | Ruthenium 104 | <3.65E-4 | ug/g dry | 3.65E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14378-37-1 | Silver 107 | <9.25E-4 | ug/g dry | 9.25E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14378-38-2 | Silver 109 | <1.07E-3 | ug/g dry | 1.07E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14336-64-2 | Cadmium 111 | <2.95E-4 | ug/g dry | 2.95E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14041-58-8 | Cadmium 114 | <6.25E-4 | ug/g dry | 6.25E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14265-72-6 | Antimony 121 | 1.29E-3 | ug/g dry | 5.40E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 13966-27-3 | Lead 206 | 1.32E-3 | ug/g dry | 7.20E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 13966-28-4 | Lead 208 | 1.32E-3 | ug/g dry | 5.60E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ56A** | | **Lab ID:** | **0805020-07** | | | |
| 14092-98-9 | Chromium 52 | 1.19E-2 | ug/g dry | 2.20E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 13981-78-7 | Chromium 53 | 1.18E-2 | ug/g dry | 6.86E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14191-84-5 | Copper 63 | 2.86E-2 | ug/g dry | 3.73E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14119-06-3 | Copper 65 | 2.70E-2 | ug/g dry | 5.19E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14687-58-2 | Selenium 82 | <1.18E-2 | ug/g dry | 1.18E-2 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14392-17-7 | Molybdenum 95 | 9.71E-2 | ug/g dry | 1.72E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14392-19-9 | Molybdenum 97 | 9.69E-2 | ug/g dry | 2.19E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14392-20-2 | Molybdenum 98 | 9.72E-2 | ug/g dry | 1.72E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14914-61-5 | Ruthenium 101 | <8.79E-4 | ug/g dry | 8.79E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14914-62-6 | Ruthenium 102 | <6.06E-4 | ug/g dry | 6.06E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |

# RCRA Metals By PNNL-AGG-415/Water Extract

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ56A** | | **Lab ID:** | **0805020-07** | | | |
| 15766-01-5 | Ruthenium 104 | <3.91E-4 | ug/g dry | 3.91E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14378-37-1 | Silver 107 | <9.91E-4 | ug/g dry | 9.91E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14378-38-2 | Silver 109 | <1.15E-3 | ug/g dry | 1.15E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14336-64-2 | Cadmium 111 | 4.07E-4 | ug/g dry | 3.16E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14041-58-8 | Cadmium 114 | <6.70E-4 | ug/g dry | 6.70E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14265-72-6 | Antimony 121 | 2.29E-3 | ug/g dry | 5.79E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 13966-27-3 | Lead 206 | 3.37E-3 | ug/g dry | 7.72E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 13966-28-4 | Lead 208 | 3.26E-3 | ug/g dry | 6.00E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ56B** | | **Lab ID:** | **0805020-08** | | | |
| 14092-98-9 | Chromium 52 | 6.05E-3 | ug/g dry | 2.06E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 13981-78-7 | Chromium 53 | <6.41E-3 | ug/g dry | 6.41E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14191-84-5 | Copper 63 | 2.09E-2 | ug/g dry | 3.49E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14119-06-3 | Copper 65 | 1.90E-2 | ug/g dry | 4.85E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14687-58-2 | Selenium 82 | <1.11E-2 | ug/g dry | 1.11E-2 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14392-17-7 | Molybdenum 95 | 1.81E-1 | ug/g dry | 1.61E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14392-19-9 | Molybdenum 97 | 1.80E-1 | ug/g dry | 2.05E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14392-20-2 | Molybdenum 98 | 1.82E-1 | ug/g dry | 1.61E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14914-61-5 | Ruthenium 101 | <8.21E-4 | ug/g dry | 8.21E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14914-62-6 | Ruthenium 102 | <5.66E-4 | ug/g dry | 5.66E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 15766-01-5 | Ruthenium 104 | <3.66E-4 | ug/g dry | 3.66E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14378-37-1 | Silver 107 | <9.26E-4 | ug/g dry | 9.26E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14378-38-2 | Silver 109 | <1.07E-3 | ug/g dry | 1.07E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14336-64-2 | Cadmium 111 | 6.45E-4 | ug/g dry | 2.95E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14041-58-8 | Cadmium 114 | <6.26E-4 | ug/g dry | 6.26E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14265-72-6 | Antimony 121 | 2.29E-3 | ug/g dry | 5.41E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 13966-27-3 | Lead 206 | 1.89E-3 | ug/g dry | 7.21E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 13966-28-4 | Lead 208 | 1.90E-3 | ug/g dry | 5.61E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ56C** | | **Lab ID:** | **0805020-09** | | | |
| 14092-98-9 | Chromium 52 | 6.06E-3 | ug/g dry | 2.06E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 13981-78-7 | Chromium 53 | <6.40E-3 | ug/g dry | 6.40E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14191-84-5 | Copper 63 | 3.39E-2 | ug/g dry | 3.48E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14119-06-3 | Copper 65 | 3.24E-2 | ug/g dry | 4.84E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14687-58-2 | Selenium 82 | <1.11E-2 | ug/g dry | 1.11E-2 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14392-17-7 | Molybdenum 95 | 1.03E-1 | ug/g dry | 1.61E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14392-19-9 | Molybdenum 97 | 1.03E-1 | ug/g dry | 2.05E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14392-20-2 | Molybdenum 98 | 1.04E-1 | ug/g dry | 1.61E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14914-61-5 | Ruthenium 101 | <8.20E-4 | ug/g dry | 8.20E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14914-62-6 | Ruthenium 102 | <5.65E-4 | ug/g dry | 5.65E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 15766-01-5 | Ruthenium 104 | <3.65E-4 | ug/g dry | 3.65E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14378-37-1 | Silver 107 | <9.25E-4 | ug/g dry | 9.25E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14378-38-2 | Silver 109 | <1.07E-3 | ug/g dry | 1.07E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14336-64-2 | Cadmium 111 | 3.98E-4 | ug/g dry | 2.95E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14041-58-8 | Cadmium 114 | <6.25E-4 | ug/g dry | 6.25E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14265-72-6 | Antimony 121 | 2.09E-3 | ug/g dry | 5.40E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 13966-27-3 | Lead 206 | 1.76E-3 | ug/g dry | 7.20E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 13966-28-4 | Lead 208 | 1.76E-3 | ug/g dry | 5.60E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ58C** | | **Lab ID:** | **0805020-10** | | | |
| 14092-98-9 | Chromium 52 | 8.10E-3 | ug/g dry | 2.06E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |

# RCRA Metals By PNNL-AGG-415/Water Extract

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ58C** | | **Lab ID:** | **0805020-10** | | | |
| 13981-78-7 | Chromium 53 | 7.71E-3 | ug/g dry | 6.41E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14191-84-5 | Copper 63 | 1.39E-1 | ug/g dry | 3.48E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14119-06-3 | Copper 65 | 1.34E-1 | ug/g dry | 4.84E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14687-58-2 | Selenium 82 | <1.11E-2 | ug/g dry | 1.11E-2 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14392-17-7 | Molybdenum 95 | 1.94E-1 | ug/g dry | 1.61E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14392-19-9 | Molybdenum 97 | 1.91E-1 | ug/g dry | 2.05E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14392-20-2 | Molybdenum 98 | 1.91E-1 | ug/g dry | 1.61E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14914-61-5 | Ruthenium 101 | 8.48E-4 | ug/g dry | 8.21E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14914-62-6 | Ruthenium 102 | <5.66E-4 | ug/g dry | 5.66E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 15766-01-5 | Ruthenium 104 | <3.65E-4 | ug/g dry | 3.65E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14378-37-1 | Silver 107 | 2.52E-3 | ug/g dry | 9.26E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14378-38-2 | Silver 109 | <1.07E-3 | ug/g dry | 1.07E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14336-64-2 | Cadmium 111 | 7.61E-4 | ug/g dry | 2.95E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14041-58-8 | Cadmium 114 | <6.26E-4 | ug/g dry | 6.26E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14265-72-6 | Antimony 121 | 2.29E-3 | ug/g dry | 5.41E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 13966-27-3 | Lead 206 | 2.47E-3 | ug/g dry | 7.21E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 13966-28-4 | Lead 208 | 2.40E-3 | ug/g dry | 5.61E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ58B** | | **Lab ID:** | **0805020-11** | | | |
| 14092-98-9 | Chromium 52 | 1.23E-2 | ug/g dry | 2.07E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 13981-78-7 | Chromium 53 | 1.22E-2 | ug/g dry | 6.44E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14191-84-5 | Copper 63 | 1.25E-1 | ug/g dry | 3.50E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14119-06-3 | Copper 65 | 1.19E-1 | ug/g dry | 4.87E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14687-58-2 | Selenium 82 | <1.11E-2 | ug/g dry | 1.11E-2 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14392-17-7 | Molybdenum 95 | 6.55E-2 | ug/g dry | 1.62E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14392-19-9 | Molybdenum 97 | 6.21E-2 | ug/g dry | 2.06E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14392-20-2 | Molybdenum 98 | 6.14E-2 | ug/g dry | 1.62E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14914-61-5 | Ruthenium 101 | 1.03E-3 | ug/g dry | 8.25E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14914-62-6 | Ruthenium 102 | <5.69E-4 | ug/g dry | 5.69E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 15766-01-5 | Ruthenium 104 | <3.67E-4 | ug/g dry | 3.67E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14378-37-1 | Silver 107 | 1.77E-3 | ug/g dry | 9.31E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14378-38-2 | Silver 109 | <1.08E-3 | ug/g dry | 1.08E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14336-64-2 | Cadmium 111 | 4.68E-4 | ug/g dry | 2.97E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14041-58-8 | Cadmium 114 | <6.29E-4 | ug/g dry | 6.29E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14265-72-6 | Antimony 121 | 1.76E-3 | ug/g dry | 5.43E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 13966-27-3 | Lead 206 | 3.85E-3 | ug/g dry | 7.25E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 13966-28-4 | Lead 208 | 3.84E-3 | ug/g dry | 5.64E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ58A** | | **Lab ID:** | **0805020-12** | | | |
| 14092-98-9 | Chromium 52 | 1.63E-2 | ug/g dry | 2.05E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 13981-78-7 | Chromium 53 | 1.63E-2 | ug/g dry | 6.40E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14191-84-5 | Copper 63 | 1.24E-1 | ug/g dry | 3.48E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14119-06-3 | Copper 65 | 1.20E-1 | ug/g dry | 4.84E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14687-58-2 | Selenium 82 | <1.10E-2 | ug/g dry | 1.10E-2 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14392-17-7 | Molybdenum 95 | 2.30E-2 | ug/g dry | 1.60E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14392-19-9 | Molybdenum 97 | 2.02E-2 | ug/g dry | 2.04E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14392-20-2 | Molybdenum 98 | 1.90E-2 | ug/g dry | 1.60E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14914-61-5 | Ruthenium 101 | 9.94E-4 | ug/g dry | 8.20E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14914-62-6 | Ruthenium 102 | <5.65E-4 | ug/g dry | 5.65E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 15766-01-5 | Ruthenium 104 | <3.65E-4 | ug/g dry | 3.65E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |

# RCRA Metals By PNNL-AGG-415/Water Extract

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ58A** | | **Lab ID:** | **0805020-12** | | | |
| 14378-37-1 | Silver 107 | 1.58E-3 | ug/g dry | 9.24E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14378-38-2 | Silver 109 | <1.07E-3 | ug/g dry | 1.07E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14336-64-2 | Cadmium 111 | <2.95E-4 | ug/g dry | 2.95E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14041-58-8 | Cadmium 114 | <6.25E-4 | ug/g dry | 6.25E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14265-72-6 | Antimony 121 | 1.17E-3 | ug/g dry | 5.40E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 13966-27-3 | Lead 206 | 2.43E-3 | ug/g dry | 7.20E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 13966-28-4 | Lead 208 | 2.37E-3 | ug/g dry | 5.60E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ59C** | | **Lab ID:** | **0805020-14** | | | |
| 14092-98-9 | Chromium 52 | <2.06E-3 | ug/g dry | 2.06E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 13981-78-7 | Chromium 53 | <6.40E-3 | ug/g dry | 6.40E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14191-84-5 | Copper 63 | 8.71E-3 | ug/g dry | 3.48E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14119-06-3 | Copper 65 | 8.69E-3 | ug/g dry | 4.84E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14687-58-2 | Selenium 82 | <1.11E-2 | ug/g dry | 1.11E-2 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14392-17-7 | Molybdenum 95 | 1.07E-1 | ug/g dry | 1.61E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14392-19-9 | Molybdenum 97 | 1.06E-1 | ug/g dry | 2.05E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14392-20-2 | Molybdenum 98 | 1.07E-1 | ug/g dry | 1.61E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14914-61-5 | Ruthenium 101 | <8.20E-4 | ug/g dry | 8.20E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14914-62-6 | Ruthenium 102 | <5.65E-4 | ug/g dry | 5.65E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 15766-01-5 | Ruthenium 104 | <3.65E-4 | ug/g dry | 3.65E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14378-37-1 | Silver 107 | <9.25E-4 | ug/g dry | 9.25E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14378-38-2 | Silver 109 | <1.07E-3 | ug/g dry | 1.07E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14336-64-2 | Cadmium 111 | 3.78E-4 | ug/g dry | 2.95E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14041-58-8 | Cadmium 114 | <6.25E-4 | ug/g dry | 6.25E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14265-72-6 | Antimony 121 | 1.08E-3 | ug/g dry | 5.40E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 13966-27-3 | Lead 206 | <7.20E-4 | ug/g dry | 7.20E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 13966-28-4 | Lead 208 | <5.60E-4 | ug/g dry | 5.60E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ59B** | | **Lab ID:** | **0805020-15** | | | |
| 14092-98-9 | Chromium 52 | <2.06E-3 | ug/g dry | 2.06E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 13981-78-7 | Chromium 53 | <6.40E-3 | ug/g dry | 6.40E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14191-84-5 | Copper 63 | <3.48E-3 | ug/g dry | 3.48E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14119-06-3 | Copper 65 | <4.84E-3 | ug/g dry | 4.84E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14687-58-2 | Selenium 82 | <1.11E-2 | ug/g dry | 1.11E-2 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14392-17-7 | Molybdenum 95 | 4.33E-2 | ug/g dry | 1.61E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14392-19-9 | Molybdenum 97 | 4.31E-2 | ug/g dry | 2.05E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14392-20-2 | Molybdenum 98 | 4.27E-2 | ug/g dry | 1.61E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14914-61-5 | Ruthenium 101 | <8.21E-4 | ug/g dry | 8.21E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14914-62-6 | Ruthenium 102 | <5.65E-4 | ug/g dry | 5.65E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 15766-01-5 | Ruthenium 104 | <3.65E-4 | ug/g dry | 3.65E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14378-37-1 | Silver 107 | <9.26E-4 | ug/g dry | 9.26E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14378-38-2 | Silver 109 | <1.07E-3 | ug/g dry | 1.07E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14336-64-2 | Cadmium 111 | <2.95E-4 | ug/g dry | 2.95E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14041-58-8 | Cadmium 114 | <6.25E-4 | ug/g dry | 6.25E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14265-72-6 | Antimony 121 | <5.40E-4 | ug/g dry | 5.40E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 13966-27-3 | Lead 206 | <7.20E-4 | ug/g dry | 7.20E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 13966-28-4 | Lead 208 | <5.60E-4 | ug/g dry | 5.60E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ59A** | | **Lab ID:** | **0805020-16** | | | |
| 14092-98-9 | Chromium 52 | <2.07E-3 | ug/g dry | 2.07E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 13981-78-7 | Chromium 53 | <6.45E-3 | ug/g dry | 6.45E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |

# RCRA Metals By PNNL-AGG-415/Water Extract

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ59A** | | **Lab ID:** | **0805020-16** | | | |
| 14191-84-5 | Copper 63 | <3.51E-3 | ug/g dry | 3.51E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14119-06-3 | Copper 65 | <4.88E-3 | ug/g dry | 4.88E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14687-58-2 | Selenium 82 | <1.11E-2 | ug/g dry | 1.11E-2 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14392-17-7 | Molybdenum 95 | 3.54E-2 | ug/g dry | 1.62E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14392-19-9 | Molybdenum 97 | 3.52E-2 | ug/g dry | 2.06E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14392-20-2 | Molybdenum 98 | 3.53E-2 | ug/g dry | 1.62E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14914-61-5 | Ruthenium 101 | <8.26E-4 | ug/g dry | 8.26E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14914-62-6 | Ruthenium 102 | <5.69E-4 | ug/g dry | 5.69E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 15766-01-5 | Ruthenium 104 | <3.68E-4 | ug/g dry | 3.68E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14378-37-1 | Silver 107 | <9.32E-4 | ug/g dry | 9.32E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14378-38-2 | Silver 109 | <1.08E-3 | ug/g dry | 1.08E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14336-64-2 | Cadmium 111 | <2.97E-4 | ug/g dry | 2.97E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14041-58-8 | Cadmium 114 | <6.30E-4 | ug/g dry | 6.30E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14265-72-6 | Antimony 121 | <5.44E-4 | ug/g dry | 5.44E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 13966-27-3 | Lead 206 | <7.25E-4 | ug/g dry | 7.25E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 13966-28-4 | Lead 208 | <5.64E-4 | ug/g dry | 5.64E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ60C** | | **Lab ID:** | **0805020-18** | | | |
| 14092-98-9 | Chromium 52 | <2.05E-3 | ug/g dry | 2.05E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 13981-78-7 | Chromium 53 | <6.40E-3 | ug/g dry | 6.40E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14191-84-5 | Copper 63 | 1.08E-2 | ug/g dry | 3.48E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14119-06-3 | Copper 65 | 1.09E-2 | ug/g dry | 4.84E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14687-58-2 | Selenium 82 | <1.10E-2 | ug/g dry | 1.10E-2 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14392-17-7 | Molybdenum 95 | 2.22E-1 | ug/g dry | 1.60E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14392-19-9 | Molybdenum 97 | 2.22E-1 | ug/g dry | 2.04E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14392-20-2 | Molybdenum 98 | 2.23E-1 | ug/g dry | 1.60E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14914-61-5 | Ruthenium 101 | <8.20E-4 | ug/g dry | 8.20E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14914-62-6 | Ruthenium 102 | <5.65E-4 | ug/g dry | 5.65E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 15766-01-5 | Ruthenium 104 | <3.65E-4 | ug/g dry | 3.65E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14378-37-1 | Silver 107 | <9.25E-4 | ug/g dry | 9.25E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14378-38-2 | Silver 109 | <1.07E-3 | ug/g dry | 1.07E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14336-64-2 | Cadmium 111 | 8.02E-4 | ug/g dry | 2.95E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14041-58-8 | Cadmium 114 | <6.25E-4 | ug/g dry | 6.25E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14265-72-6 | Antimony 121 | 1.25E-3 | ug/g dry | 5.40E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 13966-27-3 | Lead 206 | <7.20E-4 | ug/g dry | 7.20E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 13966-28-4 | Lead 208 | 6.77E-4 | ug/g dry | 5.60E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ60B** | | **Lab ID:** | **0805020-19** | | | |
| 14092-98-9 | Chromium 52 | <2.06E-3 | ug/g dry | 2.06E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 13981-78-7 | Chromium 53 | <6.40E-3 | ug/g dry | 6.40E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14191-84-5 | Copper 63 | <3.48E-3 | ug/g dry | 3.48E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14119-06-3 | Copper 65 | <4.84E-3 | ug/g dry | 4.84E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14687-58-2 | Selenium 82 | <1.11E-2 | ug/g dry | 1.11E-2 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14392-17-7 | Molybdenum 95 | 5.37E-2 | ug/g dry | 1.61E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14392-19-9 | Molybdenum 97 | 5.31E-2 | ug/g dry | 2.05E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14392-20-2 | Molybdenum 98 | 5.31E-2 | ug/g dry | 1.61E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14914-61-5 | Ruthenium 101 | <8.20E-4 | ug/g dry | 8.20E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14914-62-6 | Ruthenium 102 | <5.65E-4 | ug/g dry | 5.65E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 15766-01-5 | Ruthenium 104 | <3.65E-4 | ug/g dry | 3.65E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14378-37-1 | Silver 107 | <9.26E-4 | ug/g dry | 9.26E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |

# RCRA Metals By PNNL-AGG-415/Water Extract

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ60B** | | **Lab ID:** | **0805020-19** | | | |
| 14378-38-2 | Silver 109 | <1.07E-3 | ug/g dry | 1.07E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14336-64-2 | Cadmium 111 | <2.95E-4 | ug/g dry | 2.95E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14041-58-8 | Cadmium 114 | <6.25E-4 | ug/g dry | 6.25E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14265-72-6 | Antimony 121 | <5.40E-4 | ug/g dry | 5.40E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 13966-27-3 | Lead 206 | <7.20E-4 | ug/g dry | 7.20E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 13966-28-4 | Lead 208 | <5.60E-4 | ug/g dry | 5.60E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ60A** | | **Lab ID:** | **0805020-20** | | | |
| 14092-98-9 | Chromium 52 | <2.06E-3 | ug/g dry | 2.06E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 13981-78-7 | Chromium 53 | <6.40E-3 | ug/g dry | 6.40E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14191-84-5 | Copper 63 | <3.48E-3 | ug/g dry | 3.48E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14119-06-3 | Copper 65 | <4.84E-3 | ug/g dry | 4.84E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14687-58-2 | Selenium 82 | <1.11E-2 | ug/g dry | 1.11E-2 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14392-17-7 | Molybdenum 95 | 3.47E-2 | ug/g dry | 1.61E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14392-19-9 | Molybdenum 97 | 3.44E-2 | ug/g dry | 2.05E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14392-20-2 | Molybdenum 98 | 3.43E-2 | ug/g dry | 1.61E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14914-61-5 | Ruthenium 101 | <8.20E-4 | ug/g dry | 8.20E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14914-62-6 | Ruthenium 102 | <5.65E-4 | ug/g dry | 5.65E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 15766-01-5 | Ruthenium 104 | <3.65E-4 | ug/g dry | 3.65E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14378-37-1 | Silver 107 | <9.25E-4 | ug/g dry | 9.25E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14378-38-2 | Silver 109 | <1.07E-3 | ug/g dry | 1.07E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14336-64-2 | Cadmium 111 | <2.95E-4 | ug/g dry | 2.95E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14041-58-8 | Cadmium 114 | <6.25E-4 | ug/g dry | 6.25E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14265-72-6 | Antimony 121 | <5.40E-4 | ug/g dry | 5.40E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 13966-27-3 | Lead 206 | <7.20E-4 | ug/g dry | 7.20E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 13966-28-4 | Lead 208 | <5.60E-4 | ug/g dry | 5.60E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ61C** | | **Lab ID:** | **0805020-22** | | | |
| 14092-98-9 | Chromium 52 | <2.05E-3 | ug/g dry | 2.05E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 13981-78-7 | Chromium 53 | <6.40E-3 | ug/g dry | 6.40E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14191-84-5 | Copper 63 | <3.48E-3 | ug/g dry | 3.48E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14119-06-3 | Copper 65 | <4.84E-3 | ug/g dry | 4.84E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14687-58-2 | Selenium 82 | <1.10E-2 | ug/g dry | 1.10E-2 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14392-17-7 | Molybdenum 95 | 5.52E-2 | ug/g dry | 1.60E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14392-19-9 | Molybdenum 97 | 5.49E-2 | ug/g dry | 2.04E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14392-20-2 | Molybdenum 98 | 5.52E-2 | ug/g dry | 1.60E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14914-61-5 | Ruthenium 101 | <8.20E-4 | ug/g dry | 8.20E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14914-62-6 | Ruthenium 102 | <5.65E-4 | ug/g dry | 5.65E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 15766-01-5 | Ruthenium 104 | <3.65E-4 | ug/g dry | 3.65E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14378-37-1 | Silver 107 | <9.25E-4 | ug/g dry | 9.25E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14378-38-2 | Silver 109 | <1.07E-3 | ug/g dry | 1.07E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14336-64-2 | Cadmium 111 | <2.95E-4 | ug/g dry | 2.95E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14041-58-8 | Cadmium 114 | <6.25E-4 | ug/g dry | 6.25E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14265-72-6 | Antimony 121 | 5.84E-4 | ug/g dry | 5.40E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 13966-27-3 | Lead 206 | <7.20E-4 | ug/g dry | 7.20E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 13966-28-4 | Lead 208 | <5.60E-4 | ug/g dry | 5.60E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ61B** | | **Lab ID:** | **0805020-23** | | | |
| 14092-98-9 | Chromium 52 | <2.08E-3 | ug/g dry | 2.08E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 13981-78-7 | Chromium 53 | <6.46E-3 | ug/g dry | 6.46E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14191-84-5 | Copper 63 | <3.51E-3 | ug/g dry | 3.51E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |

# RCRA Metals By PNNL-AGG-415/Water Extract

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ61B** | | **Lab ID:** | **0805020-23** | | | |
| 14119-06-3 | Copper 65 | <4.89E-3 | ug/g dry | 4.89E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14687-58-2 | Selenium 82 | <1.12E-2 | ug/g dry | 1.12E-2 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14392-17-7 | Molybdenum 95 | 3.17E-2 | ug/g dry | 1.62E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14392-19-9 | Molybdenum 97 | 3.13E-2 | ug/g dry | 2.07E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14392-20-2 | Molybdenum 98 | 3.14E-2 | ug/g dry | 1.62E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14914-61-5 | Ruthenium 101 | <8.28E-4 | ug/g dry | 8.28E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14914-62-6 | Ruthenium 102 | <5.71E-4 | ug/g dry | 5.71E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 15766-01-5 | Ruthenium 104 | <3.69E-4 | ug/g dry | 3.69E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14378-37-1 | Silver 107 | <9.34E-4 | ug/g dry | 9.34E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14378-38-2 | Silver 109 | <1.08E-3 | ug/g dry | 1.08E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14336-64-2 | Cadmium 111 | <2.98E-4 | ug/g dry | 2.98E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14041-58-8 | Cadmium 114 | <6.31E-4 | ug/g dry | 6.31E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14265-72-6 | Antimony 121 | <5.45E-4 | ug/g dry | 5.45E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 13966-27-3 | Lead 206 | <7.27E-4 | ug/g dry | 7.27E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 13966-28-4 | Lead 208 | <5.66E-4 | ug/g dry | 5.66E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ61A** | | **Lab ID:** | **0805020-24** | | | |
| 14092-98-9 | Chromium 52 | <2.13E-3 | ug/g dry | 2.13E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 13981-78-7 | Chromium 53 | <6.64E-3 | ug/g dry | 6.64E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14191-84-5 | Copper 63 | <3.61E-3 | ug/g dry | 3.61E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14119-06-3 | Copper 65 | <5.02E-3 | ug/g dry | 5.02E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14687-58-2 | Selenium 82 | <1.15E-2 | ug/g dry | 1.15E-2 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14392-17-7 | Molybdenum 95 | 1.95E-2 | ug/g dry | 1.67E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14392-19-9 | Molybdenum 97 | 1.95E-2 | ug/g dry | 2.12E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14392-20-2 | Molybdenum 98 | 1.94E-2 | ug/g dry | 1.67E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14914-61-5 | Ruthenium 101 | <8.51E-4 | ug/g dry | 8.51E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14914-62-6 | Ruthenium 102 | <5.86E-4 | ug/g dry | 5.86E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 15766-01-5 | Ruthenium 104 | <3.79E-4 | ug/g dry | 3.79E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14378-37-1 | Silver 107 | <9.60E-4 | ug/g dry | 9.60E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14378-38-2 | Silver 109 | <1.11E-3 | ug/g dry | 1.11E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14336-64-2 | Cadmium 111 | <3.06E-4 | ug/g dry | 3.06E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14041-58-8 | Cadmium 114 | <6.49E-4 | ug/g dry | 6.49E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14265-72-6 | Antimony 121 | <5.61E-4 | ug/g dry | 5.61E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 13966-27-3 | Lead 206 | <7.47E-4 | ug/g dry | 7.47E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 13966-28-4 | Lead 208 | <5.81E-4 | ug/g dry | 5.81E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ62C** | | **Lab ID:** | **0805020-26** | | | |
| 14092-98-9 | Chromium 52 | <2.05E-3 | ug/g dry | 2.05E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 13981-78-7 | Chromium 53 | <6.40E-3 | ug/g dry | 6.40E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14191-84-5 | Copper 63 | 5.71E-3 | ug/g dry | 3.48E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14119-06-3 | Copper 65 | 6.72E-3 | ug/g dry | 4.84E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14687-58-2 | Selenium 82 | <1.10E-2 | ug/g dry | 1.10E-2 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14392-17-7 | Molybdenum 95 | 1.57E-1 | ug/g dry | 1.60E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14392-19-9 | Molybdenum 97 | 1.55E-1 | ug/g dry | 2.04E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14392-20-2 | Molybdenum 98 | 1.55E-1 | ug/g dry | 1.60E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14914-61-5 | Ruthenium 101 | <8.20E-4 | ug/g dry | 8.20E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14914-62-6 | Ruthenium 102 | <5.65E-4 | ug/g dry | 5.65E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 15766-01-5 | Ruthenium 104 | 4.35E-4 | ug/g dry | 3.65E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14378-37-1 | Silver 107 | <9.25E-4 | ug/g dry | 9.25E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14378-38-2 | Silver 109 | <1.07E-3 | ug/g dry | 1.07E-3 | 7/01/08 | 8G01004 | PNNL-AGG-415 |

# RCRA Metals By PNNL-AGG-415/Water Extract

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ62C** | | **Lab ID:** | **0805020-26** | | | |
| 14336-64-2 | Cadmium 111 | 5.71E-4 | ug/g dry | 2.95E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14041-58-8 | Cadmium 114 | <6.25E-4 | ug/g dry | 6.25E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 14265-72-6 | Antimony 121 | 9.17E-4 | ug/g dry | 5.40E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 13966-27-3 | Lead 206 | <7.20E-4 | ug/g dry | 7.20E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| 13966-28-4 | Lead 208 | <5.60E-4 | ug/g dry | 5.60E-4 | 7/01/08 | 8G01004 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ62B** | | **Lab ID:** | **0805020-27** | | | |
| 14092-98-9 | Chromium 52 | <2.06E-3 | ug/g dry | 2.06E-3 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 13981-78-7 | Chromium 53 | <6.41E-3 | ug/g dry | 6.41E-3 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14191-84-5 | Copper 63 | <3.48E-3 | ug/g dry | 3.48E-3 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14119-06-3 | Copper 65 | <4.84E-3 | ug/g dry | 4.84E-3 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14687-58-2 | Selenium 82 | <1.11E-2 | ug/g dry | 1.11E-2 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14392-17-7 | Molybdenum 95 | 5.95E-2 | ug/g dry | 1.61E-3 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14392-19-9 | Molybdenum 97 | 5.93E-2 | ug/g dry | 2.05E-3 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14392-20-2 | Molybdenum 98 | 5.94E-2 | ug/g dry | 1.61E-3 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14914-61-5 | Ruthenium 101 | <8.21E-4 | ug/g dry | 8.21E-4 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14914-62-6 | Ruthenium 102 | <5.65E-4 | ug/g dry | 5.65E-4 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 15766-01-5 | Ruthenium 104 | <3.65E-4 | ug/g dry | 3.65E-4 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14378-37-1 | Silver 107 | <9.26E-4 | ug/g dry | 9.26E-4 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14378-38-2 | Silver 109 | <1.07E-3 | ug/g dry | 1.07E-3 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14336-64-2 | Cadmium 111 | <2.95E-4 | ug/g dry | 2.95E-4 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14041-58-8 | Cadmium 114 | <6.26E-4 | ug/g dry | 6.26E-4 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14265-72-6 | Antimony 121 | <5.40E-4 | ug/g dry | 5.40E-4 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 13966-27-3 | Lead 206 | <7.21E-4 | ug/g dry | 7.21E-4 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 13966-28-4 | Lead 208 | <5.60E-4 | ug/g dry | 5.60E-4 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ62A** | | **Lab ID:** | **0805020-28** | | | |
| 14092-98-9 | Chromium 52 | <2.06E-3 | ug/g dry | 2.06E-3 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 13981-78-7 | Chromium 53 | <6.41E-3 | ug/g dry | 6.41E-3 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14191-84-5 | Copper 63 | <3.49E-3 | ug/g dry | 3.49E-3 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14119-06-3 | Copper 65 | <4.85E-3 | ug/g dry | 4.85E-3 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14687-58-2 | Selenium 82 | <1.11E-2 | ug/g dry | 1.11E-2 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14392-17-7 | Molybdenum 95 | 5.46E-2 | ug/g dry | 1.61E-3 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14392-19-9 | Molybdenum 97 | 5.45E-2 | ug/g dry | 2.05E-3 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14392-20-2 | Molybdenum 98 | 5.46E-2 | ug/g dry | 1.61E-3 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14914-61-5 | Ruthenium 101 | <8.21E-4 | ug/g dry | 8.21E-4 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14914-62-6 | Ruthenium 102 | <5.66E-4 | ug/g dry | 5.66E-4 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 15766-01-5 | Ruthenium 104 | <3.66E-4 | ug/g dry | 3.66E-4 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14378-37-1 | Silver 107 | <9.26E-4 | ug/g dry | 9.26E-4 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14378-38-2 | Silver 109 | <1.07E-3 | ug/g dry | 1.07E-3 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14336-64-2 | Cadmium 111 | <2.95E-4 | ug/g dry | 2.95E-4 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14041-58-8 | Cadmium 114 | <6.26E-4 | ug/g dry | 6.26E-4 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14265-72-6 | Antimony 121 | <5.41E-4 | ug/g dry | 5.41E-4 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 13966-27-3 | Lead 206 | <7.21E-4 | ug/g dry | 7.21E-4 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 13966-28-4 | Lead 208 | <5.61E-4 | ug/g dry | 5.61E-4 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ64C** | | **Lab ID:** | **0805020-30** | | | |
| 14092-98-9 | Chromium 52 | <2.06E-3 | ug/g dry | 2.06E-3 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 13981-78-7 | Chromium 53 | <6.40E-3 | ug/g dry | 6.40E-3 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14191-84-5 | Copper 63 | <3.48E-3 | ug/g dry | 3.48E-3 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14119-06-3 | Copper 65 | <4.84E-3 | ug/g dry | 4.84E-3 | 7/01/08 | 8G01005 | PNNL-AGG-415 |

# RCRA Metals By PNNL-AGG-415/Water Extract

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ64C** | | **Lab ID:** | **0805020-30** | | | |
| 14687-58-2 | Selenium 82 | <1.11E-2 | ug/g dry | 1.11E-2 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14392-17-7 | Molybdenum 95 | 9.73E-2 | ug/g dry | 1.61E-3 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14392-19-9 | Molybdenum 97 | 9.67E-2 | ug/g dry | 2.05E-3 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14392-20-2 | Molybdenum 98 | 9.75E-2 | ug/g dry | 1.61E-3 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14914-61-5 | Ruthenium 101 | <8.20E-4 | ug/g dry | 8.20E-4 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14914-62-6 | Ruthenium 102 | <5.65E-4 | ug/g dry | 5.65E-4 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 15766-01-5 | Ruthenium 104 | <3.65E-4 | ug/g dry | 3.65E-4 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14378-37-1 | Silver 107 | <9.25E-4 | ug/g dry | 9.25E-4 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14378-38-2 | Silver 109 | <1.07E-3 | ug/g dry | 1.07E-3 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14336-64-2 | Cadmium 111 | 3.78E-4 | ug/g dry | 2.95E-4 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14041-58-8 | Cadmium 114 | <6.25E-4 | ug/g dry | 6.25E-4 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14265-72-6 | Antimony 121 | 7.36E-4 | ug/g dry | 5.40E-4 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 13966-27-3 | Lead 206 | <7.20E-4 | ug/g dry | 7.20E-4 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 13966-28-4 | Lead 208 | <5.60E-4 | ug/g dry | 5.60E-4 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ64B** | | **Lab ID:** | **0805020-31** | | | |
| 14092-98-9 | Chromium 52 | <2.05E-3 | ug/g dry | 2.05E-3 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 13981-78-7 | Chromium 53 | <6.40E-3 | ug/g dry | 6.40E-3 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14191-84-5 | Copper 63 | <3.48E-3 | ug/g dry | 3.48E-3 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14119-06-3 | Copper 65 | <4.84E-3 | ug/g dry | 4.84E-3 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14687-58-2 | Selenium 82 | <1.10E-2 | ug/g dry | 1.10E-2 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14392-17-7 | Molybdenum 95 | 5.75E-2 | ug/g dry | 1.60E-3 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14392-19-9 | Molybdenum 97 | 5.64E-2 | ug/g dry | 2.04E-3 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14392-20-2 | Molybdenum 98 | 5.72E-2 | ug/g dry | 1.60E-3 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14914-61-5 | Ruthenium 101 | <8.20E-4 | ug/g dry | 8.20E-4 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14914-62-6 | Ruthenium 102 | <5.65E-4 | ug/g dry | 5.65E-4 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 15766-01-5 | Ruthenium 104 | <3.65E-4 | ug/g dry | 3.65E-4 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14378-37-1 | Silver 107 | <9.25E-4 | ug/g dry | 9.25E-4 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14378-38-2 | Silver 109 | <1.07E-3 | ug/g dry | 1.07E-3 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14336-64-2 | Cadmium 111 | <2.95E-4 | ug/g dry | 2.95E-4 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14041-58-8 | Cadmium 114 | <6.25E-4 | ug/g dry | 6.25E-4 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14265-72-6 | Antimony 121 | <5.40E-4 | ug/g dry | 5.40E-4 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 13966-27-3 | Lead 206 | <7.20E-4 | ug/g dry | 7.20E-4 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 13966-28-4 | Lead 208 | <5.60E-4 | ug/g dry | 5.60E-4 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ64A** | | **Lab ID:** | **0805020-32** | | | |
| 14092-98-9 | Chromium 52 | <1.95E-3 | ug/g dry | 1.95E-3 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 13981-78-7 | Chromium 53 | <6.07E-3 | ug/g dry | 6.07E-3 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14191-84-5 | Copper 63 | <3.30E-3 | ug/g dry | 3.30E-3 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14119-06-3 | Copper 65 | <4.59E-3 | ug/g dry | 4.59E-3 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14687-58-2 | Selenium 82 | <1.05E-2 | ug/g dry | 1.05E-2 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14392-17-7 | Molybdenum 95 | 2.99E-2 | ug/g dry | 1.52E-3 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14392-19-9 | Molybdenum 97 | 2.97E-2 | ug/g dry | 1.94E-3 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14392-20-2 | Molybdenum 98 | 2.97E-2 | ug/g dry | 1.52E-3 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14914-61-5 | Ruthenium 101 | <7.78E-4 | ug/g dry | 7.78E-4 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14914-62-6 | Ruthenium 102 | <5.36E-4 | ug/g dry | 5.36E-4 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 15766-01-5 | Ruthenium 104 | <3.46E-4 | ug/g dry | 3.46E-4 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14378-37-1 | Silver 107 | <8.78E-4 | ug/g dry | 8.78E-4 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14378-38-2 | Silver 109 | <1.02E-3 | ug/g dry | 1.02E-3 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14336-64-2 | Cadmium 111 | <2.80E-4 | ug/g dry | 2.80E-4 | 7/01/08 | 8G01005 | PNNL-AGG-415 |

# RCRA Metals By PNNL-AGG-415/Water Extract

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ64A** | | **Lab ID:** | **0805020-32** | | | |
| 14041-58-8 | Cadmium 114 | <5.93E-4 | ug/g dry | 5.93E-4 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 14265-72-6 | Antimony 121 | <5.12E-4 | ug/g dry | 5.12E-4 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 13966-27-3 | Lead 206 | <6.83E-4 | ug/g dry | 6.83E-4 | 7/01/08 | 8G01005 | PNNL-AGG-415 |
| 13966-28-4 | Lead 208 | <5.31E-4 | ug/g dry | 5.31E-4 | 7/01/08 | 8G01005 | PNNL-AGG-415 |

# RCRA Metals By PNNL-AGG-415/Acid Extract

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ54B** | | **Lab ID:** | **0805020-01** | | | |
| 14687-58-2 | Selenium 82 | <1.14E0 | ug/g dry | 1.14E0 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14392-17-7 | Molybdenum 95 | <2.33E-1 | ug/g dry | 2.33E-1 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14392-19-9 | Molybdenum 97 | <2.14E-1 | ug/g dry | 2.14E-1 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14392-20-2 | Molybdenum 98 | 1.93E-1 | ug/g dry | 8.86E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14914-61-5 | Ruthenium 101 | <4.48E-2 | ug/g dry | 4.48E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14914-62-6 | Ruthenium 102 | <2.71E-2 | ug/g dry | 2.71E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 15766-01-5 | Ruthenium 104 | <7.57E-2 | ug/g dry | 7.57E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14336-64-2 | Cadmium 111 | 9.63E-2 | ug/g dry | 4.90E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14041-58-8 | Cadmium 114 | 7.24E-2 | ug/g dry | 1.11E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14265-72-6 | Antimony 121 | <7.92E-2 | ug/g dry | 7.92E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ55C** | | **Lab ID:** | **0805020-05** | | | |
| 14687-58-2 | Selenium 82 | <1.33E0 | ug/g dry | 1.33E0 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14392-17-7 | Molybdenum 95 | <2.73E-1 | ug/g dry | 2.73E-1 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14392-19-9 | Molybdenum 97 | <2.50E-1 | ug/g dry | 2.50E-1 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14392-20-2 | Molybdenum 98 | 2.10E-1 | ug/g dry | 1.03E-1 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14914-61-5 | Ruthenium 101 | <5.23E-2 | ug/g dry | 5.23E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14914-62-6 | Ruthenium 102 | <3.16E-2 | ug/g dry | 3.16E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 15766-01-5 | Ruthenium 104 | <8.84E-2 | ug/g dry | 8.84E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14336-64-2 | Cadmium 111 | 9.14E-2 | ug/g dry | 5.72E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14041-58-8 | Cadmium 114 | 6.63E-2 | ug/g dry | 1.30E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14265-72-6 | Antimony 121 | <9.25E-2 | ug/g dry | 9.25E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ56A** | | **Lab ID:** | **0805020-07** | | | |
| 14687-58-2 | Selenium 82 | <1.11E0 | ug/g dry | 1.11E0 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| 14392-17-7 | Molybdenum 95 | 2.93E-1 | ug/g dry | 2.27E-1 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| 14392-19-9 | Molybdenum 97 | 2.76E-1 | ug/g dry | 2.08E-1 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| 14392-20-2 | Molybdenum 98 | 2.70E-1 | ug/g dry | 8.61E-2 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| 14914-61-5 | Ruthenium 101 | <4.36E-2 | ug/g dry | 4.36E-2 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| 14914-62-6 | Ruthenium 102 | <2.63E-2 | ug/g dry | 2.63E-2 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| 15766-01-5 | Ruthenium 104 | <7.36E-2 | ug/g dry | 7.36E-2 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| 14336-64-2 | Cadmium 111 | 6.41E-2 | ug/g dry | 4.76E-2 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| 14041-58-8 | Cadmium 114 | 4.00E-2 | ug/g dry | 1.08E-2 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| 14265-72-6 | Antimony 121 | <7.70E-2 | ug/g dry | 7.70E-2 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ56B** | | **Lab ID:** | **0805020-08** | | | |
| 14687-58-2 | Selenium 82 | <1.19E0 | ug/g dry | 1.19E0 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14392-17-7 | Molybdenum 95 | 3.00E-1 | ug/g dry | 2.43E-1 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14392-19-9 | Molybdenum 97 | 2.89E-1 | ug/g dry | 2.23E-1 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14392-20-2 | Molybdenum 98 | 2.83E-1 | ug/g dry | 9.23E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14914-61-5 | Ruthenium 101 | <4.67E-2 | ug/g dry | 4.67E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14914-62-6 | Ruthenium 102 | <2.82E-2 | ug/g dry | 2.82E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 15766-01-5 | Ruthenium 104 | <7.89E-2 | ug/g dry | 7.89E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14336-64-2 | Cadmium 111 | 6.15E-2 | ug/g dry | 5.10E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14041-58-8 | Cadmium 114 | 3.93E-2 | ug/g dry | 1.16E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14265-72-6 | Antimony 121 | <8.25E-2 | ug/g dry | 8.25E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ56C** | | **Lab ID:** | **0805020-09** | | | |
| 14687-58-2 | Selenium 82 | <1.15E0 | ug/g dry | 1.15E0 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14392-17-7 | Molybdenum 95 | 1.04E0 | ug/g dry | 2.35E-1 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14392-19-9 | Molybdenum 97 | 1.02E0 | ug/g dry | 2.16E-1 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14392-20-2 | Molybdenum 98 | 1.02E0 | ug/g dry | 8.93E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |

# RCRA Metals By PNNL-AGG-415/Acid Extract

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ56C** | | **Lab ID:** | **0805020-09** | | | |
| 14914-61-5 | Ruthenium 101 | <4.52E-2 | ug/g dry | 4.52E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14914-62-6 | Ruthenium 102 | <2.73E-2 | ug/g dry | 2.73E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 15766-01-5 | Ruthenium 104 | <7.63E-2 | ug/g dry | 7.63E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14336-64-2 | Cadmium 111 | 5.87E-2 | ug/g dry | 4.94E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14041-58-8 | Cadmium 114 | 4.17E-2 | ug/g dry | 1.12E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14265-72-6 | Antimony 121 | <7.98E-2 | ug/g dry | 7.98E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ58C** | | **Lab ID:** | **0805020-10** | | | |
| 14687-58-2 | Selenium 82 | <1.23E0 | ug/g dry | 1.23E0 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14392-17-7 | Molybdenum 95 | 7.80E-1 | ug/g dry | 2.51E-1 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14392-19-9 | Molybdenum 97 | 7.64E-1 | ug/g dry | 2.30E-1 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14392-20-2 | Molybdenum 98 | 7.63E-1 | ug/g dry | 9.53E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14914-61-5 | Ruthenium 101 | <4.82E-2 | ug/g dry | 4.82E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14914-62-6 | Ruthenium 102 | <2.91E-2 | ug/g dry | 2.91E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 15766-01-5 | Ruthenium 104 | <8.15E-2 | ug/g dry | 8.15E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14336-64-2 | Cadmium 111 | 9.42E-2 | ug/g dry | 5.27E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14041-58-8 | Cadmium 114 | 7.21E-2 | ug/g dry | 1.20E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14265-72-6 | Antimony 121 | <8.52E-2 | ug/g dry | 8.52E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ58B** | | **Lab ID:** | **0805020-11** | | | |
| 14687-58-2 | Selenium 82 | <1.31E0 | ug/g dry | 1.31E0 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14392-17-7 | Molybdenum 95 | 3.03E-1 | ug/g dry | 2.67E-1 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14392-19-9 | Molybdenum 97 | 2.91E-1 | ug/g dry | 2.45E-1 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14392-20-2 | Molybdenum 98 | 2.78E-1 | ug/g dry | 1.01E-1 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14914-61-5 | Ruthenium 101 | <5.13E-2 | ug/g dry | 5.13E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14914-62-6 | Ruthenium 102 | <3.10E-2 | ug/g dry | 3.10E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 15766-01-5 | Ruthenium 104 | <8.68E-2 | ug/g dry | 8.68E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14336-64-2 | Cadmium 111 | 8.95E-2 | ug/g dry | 5.61E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14041-58-8 | Cadmium 114 | 6.85E-2 | ug/g dry | 1.27E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14265-72-6 | Antimony 121 | <9.07E-2 | ug/g dry | 9.07E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ58A** | | **Lab ID:** | **0805020-12** | | | |
| 14687-58-2 | Selenium 82 | <1.34E0 | ug/g dry | 1.34E0 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14392-17-7 | Molybdenum 95 | <2.74E-1 | ug/g dry | 2.74E-1 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14392-19-9 | Molybdenum 97 | <2.51E-1 | ug/g dry | 2.51E-1 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14392-20-2 | Molybdenum 98 | 1.68E-1 | ug/g dry | 1.04E-1 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14914-61-5 | Ruthenium 101 | <5.25E-2 | ug/g dry | 5.25E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14914-62-6 | Ruthenium 102 | <3.18E-2 | ug/g dry | 3.18E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 15766-01-5 | Ruthenium 104 | <8.88E-2 | ug/g dry | 8.88E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14336-64-2 | Cadmium 111 | 9.41E-2 | ug/g dry | 5.74E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14041-58-8 | Cadmium 114 | 7.11E-2 | ug/g dry | 1.30E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14265-72-6 | Antimony 121 | <9.29E-2 | ug/g dry | 9.29E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ59C** | | **Lab ID:** | **0805020-14** | | | |
| 14687-58-2 | Selenium 82 | <1.24E0 | ug/g dry | 1.24E0 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14392-17-7 | Molybdenum 95 | 1.27E0 | ug/g dry | 2.55E-1 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14392-19-9 | Molybdenum 97 | 1.25E0 | ug/g dry | 2.34E-1 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14392-20-2 | Molybdenum 98 | 1.28E0 | ug/g dry | 9.67E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14914-61-5 | Ruthenium 101 | <4.89E-2 | ug/g dry | 4.89E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14914-62-6 | Ruthenium 102 | <2.96E-2 | ug/g dry | 2.96E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 15766-01-5 | Ruthenium 104 | <8.27E-2 | ug/g dry | 8.27E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14336-64-2 | Cadmium 111 | 6.25E-2 | ug/g dry | 5.35E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |

# RCRA Metals By PNNL-AGG-415/Acid Extract

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ59C** | | **Lab ID:** | **0805020-14** | | | |
| 14041-58-8 | Cadmium 114 | 4.36E-2 | ug/g dry | 1.21E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14265-72-6 | Antimony 121 | <8.65E-2 | ug/g dry | 8.65E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ59B** | | **Lab ID:** | **0805020-15** | | | |
| 14687-58-2 | Selenium 82 | <1.18E0 | ug/g dry | 1.18E0 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14392-17-7 | Molybdenum 95 | 3.04E-1 | ug/g dry | 2.42E-1 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14392-19-9 | Molybdenum 97 | 2.94E-1 | ug/g dry | 2.21E-1 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14392-20-2 | Molybdenum 98 | 2.91E-1 | ug/g dry | 9.16E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14914-61-5 | Ruthenium 101 | <4.64E-2 | ug/g dry | 4.64E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14914-62-6 | Ruthenium 102 | <2.80E-2 | ug/g dry | 2.80E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 15766-01-5 | Ruthenium 104 | <7.83E-2 | ug/g dry | 7.83E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14336-64-2 | Cadmium 111 | <5.07E-2 | ug/g dry | 5.07E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14041-58-8 | Cadmium 114 | 3.51E-2 | ug/g dry | 1.15E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14265-72-6 | Antimony 121 | <8.19E-2 | ug/g dry | 8.19E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ59A** | | **Lab ID:** | **0805020-16** | | | |
| 14687-58-2 | Selenium 82 | <1.17E0 | ug/g dry | 1.17E0 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14392-17-7 | Molybdenum 95 | 3.36E-1 | ug/g dry | 2.39E-1 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14392-19-9 | Molybdenum 97 | 3.29E-1 | ug/g dry | 2.19E-1 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14392-20-2 | Molybdenum 98 | 3.26E-1 | ug/g dry | 9.06E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14914-61-5 | Ruthenium 101 | <4.59E-2 | ug/g dry | 4.59E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14914-62-6 | Ruthenium 102 | <2.77E-2 | ug/g dry | 2.77E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 15766-01-5 | Ruthenium 104 | <7.75E-2 | ug/g dry | 7.75E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14336-64-2 | Cadmium 111 | <5.01E-2 | ug/g dry | 5.01E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14041-58-8 | Cadmium 114 | 3.47E-2 | ug/g dry | 1.14E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14265-72-6 | Antimony 121 | <8.10E-2 | ug/g dry | 8.10E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ60C** | | **Lab ID:** | **0805020-18** | | | |
| 14687-58-2 | Selenium 82 | <1.12E0 | ug/g dry | 1.12E0 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14392-17-7 | Molybdenum 95 | 2.55E0 | ug/g dry | 2.30E-1 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14392-19-9 | Molybdenum 97 | 2.56E0 | ug/g dry | 2.11E-1 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14392-20-2 | Molybdenum 98 | 2.58E0 | ug/g dry | 8.74E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14914-61-5 | Ruthenium 101 | <4.42E-2 | ug/g dry | 4.42E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14914-62-6 | Ruthenium 102 | <2.67E-2 | ug/g dry | 2.67E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 15766-01-5 | Ruthenium 104 | <7.47E-2 | ug/g dry | 7.47E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14336-64-2 | Cadmium 111 | 6.13E-2 | ug/g dry | 4.83E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14041-58-8 | Cadmium 114 | 4.93E-2 | ug/g dry | 1.10E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14265-72-6 | Antimony 121 | <7.82E-2 | ug/g dry | 7.82E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ60B** | | **Lab ID:** | **0805020-19** | | | |
| 14687-58-2 | Selenium 82 | <1.19E0 | ug/g dry | 1.19E0 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14392-17-7 | Molybdenum 95 | 2.69E-1 | ug/g dry | 2.43E-1 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14392-19-9 | Molybdenum 97 | 2.53E-1 | ug/g dry | 2.23E-1 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14392-20-2 | Molybdenum 98 | 2.47E-1 | ug/g dry | 9.24E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14914-61-5 | Ruthenium 101 | <4.67E-2 | ug/g dry | 4.67E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14914-62-6 | Ruthenium 102 | <2.83E-2 | ug/g dry | 2.83E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 15766-01-5 | Ruthenium 104 | <7.90E-2 | ug/g dry | 7.90E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14336-64-2 | Cadmium 111 | 5.42E-2 | ug/g dry | 5.11E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14041-58-8 | Cadmium 114 | 3.92E-2 | ug/g dry | 1.16E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14265-72-6 | Antimony 121 | <8.26E-2 | ug/g dry | 8.26E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ60A** | | **Lab ID:** | **0805020-20** | | | |
| 14687-58-2 | Selenium 82 | <1.17E0 | ug/g dry | 1.17E0 | 7/02/08 | 8G02005 | PNNL-AGG-415 |

# RCRA Metals By PNNL-AGG-415/Acid Extract

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ60A** | | **Lab ID:** | **0805020-20** | | | |
| 14392-17-7 | Molybdenum 95 | 2.90E-1 | ug/g dry | 2.39E-1 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14392-19-9 | Molybdenum 97 | 2.77E-1 | ug/g dry | 2.19E-1 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14392-20-2 | Molybdenum 98 | 2.78E-1 | ug/g dry | 9.06E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14914-61-5 | Ruthenium 101 | <4.58E-2 | ug/g dry | 4.58E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14914-62-6 | Ruthenium 102 | <2.77E-2 | ug/g dry | 2.77E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 15766-01-5 | Ruthenium 104 | <7.75E-2 | ug/g dry | 7.75E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14336-64-2 | Cadmium 111 | 5.55E-2 | ug/g dry | 5.01E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14041-58-8 | Cadmium 114 | 3.77E-2 | ug/g dry | 1.14E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14265-72-6 | Antimony 121 | <8.10E-2 | ug/g dry | 8.10E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ61C** | | **Lab ID:** | **0805020-22** | | | |
| 14687-58-2 | Selenium 82 | <1.05E0 | ug/g dry | 1.05E0 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14392-17-7 | Molybdenum 95 | 8.64E-1 | ug/g dry | 2.14E-1 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14392-19-9 | Molybdenum 97 | 8.31E-1 | ug/g dry | 1.96E-1 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14392-20-2 | Molybdenum 98 | 8.56E-1 | ug/g dry | 8.13E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14914-61-5 | Ruthenium 101 | <4.11E-2 | ug/g dry | 4.11E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14914-62-6 | Ruthenium 102 | <2.49E-2 | ug/g dry | 2.49E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 15766-01-5 | Ruthenium 104 | <6.95E-2 | ug/g dry | 6.95E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14336-64-2 | Cadmium 111 | 5.47E-2 | ug/g dry | 4.49E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14041-58-8 | Cadmium 114 | 3.63E-2 | ug/g dry | 1.02E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14265-72-6 | Antimony 121 | <7.26E-2 | ug/g dry | 7.26E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ61B** | | **Lab ID:** | **0805020-23** | | | |
| 14687-58-2 | Selenium 82 | <1.02E0 | ug/g dry | 1.02E0 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14392-17-7 | Molybdenum 95 | 2.57E-1 | ug/g dry | 2.08E-1 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14392-19-9 | Molybdenum 97 | 2.58E-1 | ug/g dry | 1.91E-1 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14392-20-2 | Molybdenum 98 | 2.50E-1 | ug/g dry | 7.91E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14914-61-5 | Ruthenium 101 | <4.00E-2 | ug/g dry | 4.00E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14914-62-6 | Ruthenium 102 | <2.42E-2 | ug/g dry | 2.42E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 15766-01-5 | Ruthenium 104 | <6.76E-2 | ug/g dry | 6.76E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14336-64-2 | Cadmium 111 | 4.57E-2 | ug/g dry | 4.37E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14041-58-8 | Cadmium 114 | 3.26E-2 | ug/g dry | 9.92E-3 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14265-72-6 | Antimony 121 | <7.07E-2 | ug/g dry | 7.07E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ61A** | | **Lab ID:** | **0805020-24** | | | |
| 14687-58-2 | Selenium 82 | <1.13E0 | ug/g dry | 1.13E0 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14392-17-7 | Molybdenum 95 | 2.39E-1 | ug/g dry | 2.32E-1 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14392-19-9 | Molybdenum 97 | 2.27E-1 | ug/g dry | 2.12E-1 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14392-20-2 | Molybdenum 98 | 2.26E-1 | ug/g dry | 8.79E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14914-61-5 | Ruthenium 101 | <4.45E-2 | ug/g dry | 4.45E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14914-62-6 | Ruthenium 102 | <2.69E-2 | ug/g dry | 2.69E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 15766-01-5 | Ruthenium 104 | <7.51E-2 | ug/g dry | 7.51E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14336-64-2 | Cadmium 111 | 5.49E-2 | ug/g dry | 4.86E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14041-58-8 | Cadmium 114 | 4.21E-2 | ug/g dry | 1.10E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14265-72-6 | Antimony 121 | <7.86E-2 | ug/g dry | 7.86E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ62C** | | **Lab ID:** | **0805020-26** | | | |
| 14687-58-2 | Selenium 82 | <1.19E0 | ug/g dry | 1.19E0 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14392-17-7 | Molybdenum 95 | 2.49E-1 | ug/g dry | 2.44E-1 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14392-19-9 | Molybdenum 97 | 2.49E-1 | ug/g dry | 2.23E-1 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14392-20-2 | Molybdenum 98 | 2.46E-1 | ug/g dry | 9.25E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14914-61-5 | Ruthenium 101 | <4.68E-2 | ug/g dry | 4.68E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |

# RCRA Metals By PNNL-AGG-415/Acid Extract

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ62C** | | **Lab ID:** | **0805020-26** | | | |
| 14914-62-6 | Ruthenium 102 | <2.83E-2 | ug/g dry | 2.83E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 15766-01-5 | Ruthenium 104 | <7.91E-2 | ug/g dry | 7.91E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14336-64-2 | Cadmium 111 | 5.83E-2 | ug/g dry | 5.11E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14041-58-8 | Cadmium 114 | 4.05E-2 | ug/g dry | 1.16E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| 14265-72-6 | Antimony 121 | <8.27E-2 | ug/g dry | 8.27E-2 | 7/02/08 | 8G02005 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ62B** | | **Lab ID:** | **0805020-27** | | | |
| 14687-58-2 | Selenium 82 | <1.22E0 | ug/g dry | 1.22E0 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| 14392-17-7 | Molybdenum 95 | 2.66E-1 | ug/g dry | 2.50E-1 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| 14392-19-9 | Molybdenum 97 | 2.64E-1 | ug/g dry | 2.29E-1 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| 14392-20-2 | Molybdenum 98 | 2.56E-1 | ug/g dry | 9.50E-2 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| 14914-61-5 | Ruthenium 101 | <4.81E-2 | ug/g dry | 4.81E-2 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| 14914-62-6 | Ruthenium 102 | <2.91E-2 | ug/g dry | 2.91E-2 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| 15766-01-5 | Ruthenium 104 | <8.12E-2 | ug/g dry | 8.12E-2 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| 14336-64-2 | Cadmium 111 | <5.25E-2 | ug/g dry | 5.25E-2 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| 14041-58-8 | Cadmium 114 | 3.67E-2 | ug/g dry | 1.19E-2 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| 14265-72-6 | Antimony 121 | <8.49E-2 | ug/g dry | 8.49E-2 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ62A** | | **Lab ID:** | **0805020-28** | | | |
| 14687-58-2 | Selenium 82 | <1.24E0 | ug/g dry | 1.24E0 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| 14392-17-7 | Molybdenum 95 | <2.53E-1 | ug/g dry | 2.53E-1 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| 14392-19-9 | Molybdenum 97 | <2.32E-1 | ug/g dry | 2.32E-1 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| 14392-20-2 | Molybdenum 98 | 1.94E-1 | ug/g dry | 9.62E-2 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| 14914-61-5 | Ruthenium 101 | <4.87E-2 | ug/g dry | 4.87E-2 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| 14914-62-6 | Ruthenium 102 | <2.94E-2 | ug/g dry | 2.94E-2 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| 15766-01-5 | Ruthenium 104 | <8.22E-2 | ug/g dry | 8.22E-2 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| 14336-64-2 | Cadmium 111 | 5.62E-2 | ug/g dry | 5.32E-2 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| 14041-58-8 | Cadmium 114 | 4.17E-2 | ug/g dry | 1.21E-2 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| 14265-72-6 | Antimony 121 | <8.60E-2 | ug/g dry | 8.60E-2 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ64C** | | **Lab ID:** | **0805020-30** | | | |
| 14687-58-2 | Selenium 82 | <1.25E0 | ug/g dry | 1.25E0 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| 14392-17-7 | Molybdenum 95 | 5.25E-1 | ug/g dry | 2.56E-1 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| 14392-19-9 | Molybdenum 97 | 5.04E-1 | ug/g dry | 2.35E-1 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| 14392-20-2 | Molybdenum 98 | 5.10E-1 | ug/g dry | 9.72E-2 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| 14914-61-5 | Ruthenium 101 | <4.92E-2 | ug/g dry | 4.92E-2 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| 14914-62-6 | Ruthenium 102 | <2.97E-2 | ug/g dry | 2.97E-2 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| 15766-01-5 | Ruthenium 104 | <8.31E-2 | ug/g dry | 8.31E-2 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| 14336-64-2 | Cadmium 111 | 6.33E-2 | ug/g dry | 5.37E-2 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| 14041-58-8 | Cadmium 114 | 4.36E-2 | ug/g dry | 1.22E-2 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| 14265-72-6 | Antimony 121 | <8.69E-2 | ug/g dry | 8.69E-2 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ64B** | | **Lab ID:** | **0805020-31** | | | |
| 14687-58-2 | Selenium 82 | <1.11E0 | ug/g dry | 1.11E0 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| 14392-17-7 | Molybdenum 95 | 4.61E-1 | ug/g dry | 2.27E-1 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| 14392-19-9 | Molybdenum 97 | 4.52E-1 | ug/g dry | 2.08E-1 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| 14392-20-2 | Molybdenum 98 | 4.48E-1 | ug/g dry | 8.63E-2 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| 14914-61-5 | Ruthenium 101 | <4.36E-2 | ug/g dry | 4.36E-2 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| 14914-62-6 | Ruthenium 102 | <2.64E-2 | ug/g dry | 2.64E-2 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| 15766-01-5 | Ruthenium 104 | <7.38E-2 | ug/g dry | 7.38E-2 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| 14336-64-2 | Cadmium 111 | 5.11E-2 | ug/g dry | 4.77E-2 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| 14041-58-8 | Cadmium 114 | 3.92E-2 | ug/g dry | 1.08E-2 | 7/02/08 | 8G02007 | PNNL-AGG-415 |

# RCRA Metals By PNNL-AGG-415/Acid Extract

| CAS # | Analyte | Results | Units | EQL | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ64B** | | **Lab ID:** | **0805020-31** | | | |
| 14265-72-6 | Antimony 121 | <7.71E-2 | ug/g dry | 7.71E-2 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| **HEIS No.** | **B1VJ64A** | | **Lab ID:** | **0805020-32** | | | |
| 14687-58-2 | Selenium 82 | <1.18E0 | ug/g dry | 1.18E0 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| 14392-17-7 | Molybdenum 95 | <2.41E-1 | ug/g dry | 2.41E-1 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| 14392-19-9 | Molybdenum 97 | 2.21E-1 | ug/g dry | 2.21E-1 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| 14392-20-2 | Molybdenum 98 | 2.15E-1 | ug/g dry | 9.16E-2 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| 14914-61-5 | Ruthenium 101 | <4.63E-2 | ug/g dry | 4.63E-2 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| 14914-62-6 | Ruthenium 102 | <2.80E-2 | ug/g dry | 2.80E-2 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| 15766-01-5 | Ruthenium 104 | <7.83E-2 | ug/g dry | 7.83E-2 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| 14336-64-2 | Cadmium 111 | 5.48E-2 | ug/g dry | 5.06E-2 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| 14041-58-8 | Cadmium 114 | 3.74E-2 | ug/g dry | 1.15E-2 | 7/02/08 | 8G02007 | PNNL-AGG-415 |
| 14265-72-6 | Antimony 121 | <8.19E-2 | ug/g dry | 8.19E-2 | 7/02/08 | 8G02007 | PNNL-AGG-415 |

## Carbon Analysis/Soil

### Total Organic Carbon (ug/g) by AGG-TOC-001

| Lab ID | HEIS No. | Results | EQL | Analyzed | Batch |
|---|---|---|---|---|---|
| 0805020-01 | B1VJ54B | 7.97E2 | 2.00E2 | 7/01/08 | [CALC] |
| 0805020-05 | B1VJ55C | 6.36E2 | 2.00E2 | 7/01/08 | [CALC] |
| 0805020-07 | B1VJ56A | 2.94E2 | 2.00E2 | 7/01/08 | [CALC] |
| 0805020-08 | B1VJ56B | 3.53E2 | 2.00E2 | 7/01/08 | [CALC] |
| 0805020-09 | B1VJ56C | 6.70E2 | 2.00E2 | 7/01/08 | [CALC] |
| 0805020-10 | B1VJ58C | 8.88E2 | 2.00E2 | 7/01/08 | [CALC] |
| 0805020-11 | B1VJ58B | 6.65E2 | 2.00E2 | 7/01/08 | [CALC] |
| 0805020-12 | B1VJ58A | 8.46E2 | 2.00E2 | 7/01/08 | [CALC] |
| 0805020-14 | B1VJ59C | 5.55E2 | 2.00E2 | 7/01/08 | [CALC] |
| 0805020-15 | B1VJ59B | 3.10E2 | 2.00E2 | 7/01/08 | [CALC] |
| 0805020-16 | B1VJ59A | 2.62E2 | 2.00E2 | 7/02/08 | [CALC] |
| 0805020-18 | B1VJ60C | 9.71E2 | 2.00E2 | 7/02/08 | [CALC] |
| 0805020-19 | B1VJ60B | <2.00E2 | 2.00E2 | 7/02/08 | [CALC] |
| 0805020-20 | B1VJ60A | 2.36E2 | 2.00E2 | 7/02/08 | [CALC] |
| 0805020-22 | B1VJ61C | 6.93E2 | 2.00E2 | 7/02/08 | [CALC] |
| 0805020-23 | B1VJ61B | 3.07E2 | 2.00E2 | 7/02/08 | [CALC] |
| 0805020-24 | B1VJ61A | 2.40E2 | 2.00E2 | 7/02/08 | [CALC] |
| 0805020-26 | B1VJ62C | 3.66E2 | 2.00E2 | 7/02/08 | [CALC] |
| 0805020-27 | B1VJ62B | <2.00E2 | 2.00E2 | 7/02/08 | [CALC] |
| 0805020-28 | B1VJ62A | 4.01E2 | 2.00E2 | 7/02/08 | [CALC] |
| 0805020-30 | B1VJ64C | 3.70E2 | 2.00E2 | 7/02/08 | [CALC] |
| 0805020-31 | B1VJ64B | 4.13E2 | 2.00E2 | 7/02/08 | [CALC] |
| 0805020-32 | B1VJ64A | 3.54E2 | 2.00E2 | 7/02/08 | [CALC] |

## Carbon Analysis/Soil

### Total Carbon (ug/g) by AGG-TOC-001

| Lab ID | HEIS No. | Results | EQL | Analyzed | Batch |
|---|---|---|---|---|---|
| 0805020-01 | B1VJ54B | 2.52E3 | 2.00E2 | 6/27/08 | 8F26006 |
| 0805020-05 | B1VJ55C | 3.26E3 | 2.00E2 | 6/27/08 | 8F26006 |
| 0805020-07 | B1VJ56A | 1.70E3 | 2.00E2 | 6/27/08 | 8F26006 |
| 0805020-08 | B1VJ56B | 1.68E3 | 2.00E2 | 6/27/08 | 8F26006 |
| 0805020-09 | B1VJ56C | 1.91E3 | 2.00E2 | 6/27/08 | 8F26006 |
| 0805020-10 | B1VJ58C | 2.89E3 | 2.00E2 | 6/27/08 | 8F26006 |
| 0805020-11 | B1VJ58B | 3.24E3 | 2.00E2 | 6/27/08 | 8F26006 |
| 0805020-12 | B1VJ58A | 2.92E3 | 2.00E2 | 6/27/08 | 8F26006 |
| 0805020-14 | B1VJ59C | 2.45E3 | 2.00E2 | 6/27/08 | 8F26006 |
| 0805020-15 | B1VJ59B | 2.62E3 | 2.00E2 | 6/27/08 | 8F26006 |
| 0805020-16 | B1VJ59A | 2.54E3 | 2.00E2 | 6/27/08 | 8F26006 |
| 0805020-18 | B1VJ60C | 3.64E3 | 2.00E2 | 6/27/08 | 8F26006 |
| 0805020-19 | B1VJ60B | 3.05E3 | 2.00E2 | 6/27/08 | 8F26006 |
| 0805020-20 | B1VJ60A | 2.76E3 | 2.00E2 | 6/30/08 | 8F26006 |
| 0805020-22 | B1VJ61C | 2.83E3 | 2.00E2 | 6/30/08 | 8F26006 |
| 0805020-23 | B1VJ61B | 2.46E3 | 2.00E2 | 6/30/08 | 8F26006 |
| 0805020-24 | B1VJ61A | 2.24E3 | 2.00E2 | 6/30/08 | 8F26006 |
| 0805020-26 | B1VJ62C | 2.88E3 | 2.00E2 | 6/30/08 | 8F26006 |
| 0805020-27 | B1VJ62B | 2.67E3 | 2.00E2 | 6/30/08 | 8F26006 |
| 0805020-28 | B1VJ62A | 2.81E3 | 2.00E2 | 6/30/08 | 8F26006 |
| 0805020-30 | B1VJ64C | 2.22E3 | 2.00E2 | 6/30/08 | 8F26006 |
| 0805020-31 | B1VJ64B | 2.08E3 | 2.00E2 | 6/30/08 | 8F26006 |
| 0805020-32 | B1VJ64A | 1.98E3 | 2.00E2 | 6/30/08 | 8F26006 |

# Carbon Analysis/Soil

## Total Inorganic Carbon (ug/g) by AGG-TOC-001

| Lab ID | HEIS No. | Results | EQL | Analyzed | Batch |
|---|---|---|---|---|---|
| 0805020-01 | B1VJ54B | 1.73E3 | 2.00E2 | 7/01/08 | 8F30010 |
| 0805020-05 | B1VJ55C | 2.63E3 | 2.00E2 | 7/01/08 | 8F30010 |
| 0805020-07 | B1VJ56A | 1.41E3 | 2.00E2 | 7/01/08 | 8F30010 |
| 0805020-08 | B1VJ56B | 1.33E3 | 2.00E2 | 7/01/08 | 8F30010 |
| 0805020-09 | B1VJ56C | 1.24E3 | 2.00E2 | 7/01/08 | 8F30010 |
| 0805020-10 | B1VJ58C | 2.00E3 | 2.00E2 | 7/01/08 | 8F30010 |
| 0805020-11 | B1VJ58B | 2.57E3 | 2.00E2 | 7/01/08 | 8F30010 |
| 0805020-12 | B1VJ58A | 2.07E3 | 2.00E2 | 7/01/08 | 8F30010 |
| 0805020-14 | B1VJ59C | 1.90E3 | 2.00E2 | 7/01/08 | 8F30010 |
| 0805020-15 | B1VJ59B | 2.31E3 | 2.00E2 | 7/01/08 | 8F30010 |
| 0805020-16 | B1VJ59A | 2.28E3 | 2.00E2 | 7/02/08 | 8F30010 |
| 0805020-18 | B1VJ60C | 2.67E3 | 2.00E2 | 7/02/08 | 8F30010 |
| 0805020-19 | B1VJ60B | 2.90E3 | 2.00E2 | 7/02/08 | 8F30010 |
| 0805020-20 | B1VJ60A | 2.52E3 | 2.00E2 | 7/02/08 | 8F30010 |
| 0805020-22 | B1VJ61C | 2.14E3 | 2.00E2 | 7/02/08 | 8F30010 |
| 0805020-23 | B1VJ61B | 2.15E3 | 2.00E2 | 7/02/08 | 8F30010 |
| 0805020-24 | B1VJ61A | 2.00E3 | 2.00E2 | 7/02/08 | 8F30010 |
| 0805020-26 | B1VJ62C | 2.51E3 | 2.00E2 | 7/02/08 | 8F30010 |
| 0805020-27 | B1VJ62B | 2.52E3 | 2.00E2 | 7/02/08 | 8F30010 |
| 0805020-28 | B1VJ62A | 2.41E3 | 2.00E2 | 7/02/08 | 8F30010 |
| 0805020-30 | B1VJ64C | 1.85E3 | 2.00E2 | 7/02/08 | 8F30010 |
| 0805020-31 | B1VJ64B | 1.66E3 | 2.00E2 | 7/02/08 | 8F30010 |
| 0805020-32 | B1VJ64A | 1.62E3 | 2.00E2 | 7/02/08 | 8F30010 |

# GEA/Soil

| CAS # | Analyte | Results | Units | MDA | UNC | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ54B** | | **Lab ID:** | **0805020-01** | | | | |
| 13966-32-0 | Sodium-22 | <4.17E-1 | pCi/g dry | 4.17E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13966-00-2 | Potassium-40 | 1.55E1 | pCi/g dry | 3.53E0 | 1.21 | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14392-02-0 | Chromium-51 | <6.43E0 | pCi/g dry | 6.43E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13966-31-9 | Manganese-54 | <3.26E-1 | pCi/g dry | 3.26E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13981-50-5 | Cobalt-57 | <5.74E-1 | pCi/g dry | 5.74E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14596-12-4 | Iron-59 | <5.35E-1 | pCi/g dry | 5.35E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 10198-40-0 | Cobalt-60 | <2.96E-1 | pCi/g dry | 2.96E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13982-39-3 | Zinc-65 | <6.98E-1 | pCi/g dry | 6.98E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14265-71-5 | Selenium-75 | <1.05E0 | pCi/g dry | 1.05E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 17056-36-9 | Rubidium-83 | <1.37E0 | pCi/g dry | 1.37E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13967-73-2 | Strontium-85 | <7.22E-1 | pCi/g dry | 7.22E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14932-53-7 | Rubidium-86 | <3.70E0 | pCi/g dry | 3.70E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13982-36-0 | Yttrium-88 | <2.43E-1 | pCi/g dry | 2.43E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14681-63-1 | Niobium-94 | <2.85E-1 | pCi/g dry | 2.85E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13967-76-5 | Niobium-95 | <3.17E-1 | pCi/g dry | 3.17E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| | Niobium-95m | <2.63E0 | pCi/g dry | 2.63E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| | Technetium-95m | <9.90E-1 | pCi/g dry | 9.90E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13967-71-0 | Zirconium-95 | <5.60E-1 | pCi/g dry | 5.60E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| | Technetium-99m | <5.58E-1 | pCi/g dry | 5.58E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13968-53-1 | Ruthenium-103 | <7.90E-1 | pCi/g dry | 7.90E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13967-48-1 | Ruthenium-106 | <5.60E0 | pCi/g dry | 5.60E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14391-65-2 | Silver-108m | <3.59E-1 | pCi/g dry | 3.59E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14109-32-1 | Cadmium-109 | <1.49E1 | pCi/g dry | 1.49E1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| | Silver-110 | <4.06E-1 | pCi/g dry | 4.06E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14391-76-5 | Silver-110m | <4.06E-1 | pCi/g dry | 4.06E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13966-06-8 | Tin-113 | <1.12E0 | pCi/g dry | 1.12E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14683-10-4 | Antimony-124 | <5.56E-1 | pCi/g dry | 5.56E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14234-35-6 | Antimony-125 | <2.64E0 | pCi/g dry | 2.64E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15756-32-8 | Antimony-126 | <5.78E-1 | pCi/g dry | 5.78E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15832-50-5 | Tin-126 | <1.21E0 | pCi/g dry | 1.21E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 10043-66-0 | Iodine-131 | <8.46E-1 | pCi/g dry | 8.46E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13981-41-4 | Barium-133 | <1.18E0 | pCi/g dry | 1.18E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13967-70-9 | Cesium-134 | <3.57E-1 | pCi/g dry | 3.57E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 10045-97-3 | Cesium-137 | 8.50E1 | pCi/g dry | 5.28E-1 | 1.2 | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13982-30-4 | Cerium-139 | <6.66E-1 | pCi/g dry | 6.66E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14762-78-8 | Cerium-144 | <4.56E0 | pCi/g dry | 4.56E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14683-23-9 | Europium-152 | <1.68E0 | pCi/g dry | 1.68E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14276-65-4 | Gadolinium-153 | <1.68E0 | pCi/g dry | 1.68E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15585-10-1 | Europium-154 | <1.21E0 | pCi/g dry | 1.21E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14391-16-3 | Europium-155 | <1.72E0 | pCi/g dry | 1.72E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13982-78-0 | Mercury-203 | <8.25E-1 | pCi/g dry | 8.25E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14913-50-9 | Thallium-208 | <6.57E-1 | pCi/g dry | 6.57E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14331-79-4 | Bismuth-210 | <1.26E0 | pCi/g dry | 1.26E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14255-04-0 | Lead-210 | <1.48E2 | pCi/g dry | 1.48E2 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| | Bismuth-211 | <9.80E0 | pCi/g dry | 9.80E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| | Lead-211 | <1.15E1 | pCi/g dry | 1.15E1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15092-94-1 | Lead-212 | <1.17E0 | pCi/g dry | 1.17E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14733-03-0 | Bismuth-214 | <1.21E0 | pCi/g dry | 1.21E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15067-28-4 | Lead-214 | <1.87E0 | pCi/g dry | 1.87E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |

# GEA/Soil

| CAS # | Analyte | Results | Units | MDA | UNC | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ54B** | | **Lab ID:** | **0805020-01** | | | | |
| 14835-02-0 | Radon-219 | <6.40E0 | pCi/g dry | 6.40E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 22481-48-7 | Radon-220 | <5.68E2 | pCi/g dry | 5.68E2 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 28522-20-5 | Radon-221 | <2.79E0 | pCi/g dry | 2.79E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15756-98-6 | Francium-223 | <1.93E1 | pCi/g dry | 1.93E1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15623-45-7 | Radium-223 | <4.70E0 | pCi/g dry | 4.70E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13233-32-4 | Radium-224 | <1.67E1 | pCi/g dry | 1.67E1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13982-63-3 | Radium-226 | <1.72E1 | pCi/g dry | 1.72E1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15623-47-9 | Thorium-227 | <5.88E0 | pCi/g dry | 5.88E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14331-83-0 | Actinium-228 | <1.44E0 | pCi/g dry | 1.44E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14274-82-9 | Thorium-228 | <2.31E2 | pCi/g dry | 2.31E2 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14269-63-7 | Thorium-230 | <2.22E2 | pCi/g dry | 2.22E2 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14331-85-2 | Protactinium-231 | <2.76E1 | pCi/g dry | 2.76E1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14932-40-2 | Thorium-231 | <1.19E2 | pCi/g dry | 1.19E2 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 7440-29-1 | Thorium-232 | <6.91E2 | pCi/g dry | 6.91E2 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13981-14-1 | Protactinium-233 | <1.73E0 | pCi/g dry | 1.73E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15100-28-4 | Protactinium-234 | <1.93E0 | pCi/g dry | 1.93E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| | Protactinium-234m | <3.90E1 | pCi/g dry | 3.90E1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15065-10-8 | Thorium-234 | <1.90E1 | pCi/g dry | 1.90E1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15117-96-1 | Uranium 235 | <4.80E0 | pCi/g dry | 4.80E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13994-20-2 | Neptunium-237 | <4.47E0 | pCi/g dry | 4.47E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13981-16-3 | Plutonium-238 | <6.84E3 | pCi/g dry | 6.84E3 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| | Uranium 238 | <9.84E0 | pCi/g dry | 9.84E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15117-48-3 | Plutonium-239 | <7.96E3 | pCi/g dry | 7.96E3 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14119-33-6 | Plutonium-240 | <6.98E3 | pCi/g dry | 6.98E3 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14596-10-2 | Americium-241 | <3.48E0 | pCi/g dry | 3.48E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14993-75-0 | Americium-243 | <1.16E0 | pCi/g dry | 1.16E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15757-87-6 | Curium-243 | <2.13E0 | pCi/g dry | 2.13E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15621-76-8 | Curium-245 | <1.75E0 | pCi/g dry | 1.75E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| **HEIS No.** | **B1VJ55C** | | **Lab ID:** | **0805020-05** | | | | |
| 13966-32-0 | Sodium-22 | <4.74E-1 | pCi/g dry | 4.74E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13966-00-2 | Potassium-40 | <1.02E1 | pCi/g dry | 1.02E1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14392-02-0 | Chromium-51 | <4.48E0 | pCi/g dry | 4.48E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13966-31-9 | Manganese-54 | <5.12E-1 | pCi/g dry | 5.12E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13981-50-5 | Cobalt-57 | <4.64E-1 | pCi/g dry | 4.64E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14596-12-4 | Iron-59 | <8.10E-1 | pCi/g dry | 8.10E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 10198-40-0 | Cobalt-60 | <4.78E-1 | pCi/g dry | 4.78E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13982-39-3 | Zinc-65 | <1.01E0 | pCi/g dry | 1.01E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14265-71-5 | Selenium-75 | <7.58E-1 | pCi/g dry | 7.58E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 17056-36-9 | Rubidium-83 | <1.18E0 | pCi/g dry | 1.18E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13967-73-2 | Strontium-85 | <5.49E-1 | pCi/g dry | 5.49E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14932-53-7 | Rubidium-86 | <5.75E0 | pCi/g dry | 5.75E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13982-36-0 | Yttrium-88 | <4.00E-1 | pCi/g dry | 4.00E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14681-63-1 | Niobium-94 | <4.56E-1 | pCi/g dry | 4.56E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13967-76-5 | Niobium-95 | <4.85E-1 | pCi/g dry | 4.85E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| | Niobium-95m | <2.08E0 | pCi/g dry | 2.08E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| | Technetium-95m | <7.19E-1 | pCi/g dry | 7.19E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13967-71-0 | Zirconium-95 | <8.90E-1 | pCi/g dry | 8.90E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| | Technetium-99m | <4.66E-1 | pCi/g dry | 4.66E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |

# GEA/Soil

| CAS # | Analyte | Results | Units | MDA | UNC | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ55C** | | **Lab ID:** | **0805020-05** | | | | |
| 13968-53-1 | Ruthenium-103 | <5.58E-1 | pCi/g dry | 5.58E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13967-48-1 | Ruthenium-106 | <5.28E0 | pCi/g dry | 5.28E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14391-65-2 | Silver-108m | <4.74E-1 | pCi/g dry | 4.74E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14109-32-1 | Cadmium-109 | <1.29E1 | pCi/g dry | 1.29E1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| | Silver-110 | <4.80E-1 | pCi/g dry | 4.80E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14391-76-5 | Silver-110m | <4.81E-1 | pCi/g dry | 4.81E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13966-06-8 | Tin-113 | <6.56E-1 | pCi/g dry | 6.56E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14683-10-4 | Antimony-124 | <5.46E-1 | pCi/g dry | 5.46E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14234-35-6 | Antimony-125 | <1.49E0 | pCi/g dry | 1.49E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15756-32-8 | Antimony-126 | <4.51E-1 | pCi/g dry | 4.51E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15832-50-5 | Tin-126 | <1.06E0 | pCi/g dry | 1.06E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 10043-66-0 | Iodine-131 | <5.78E-1 | pCi/g dry | 5.78E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13981-41-4 | Barium-133 | <8.12E-1 | pCi/g dry | 8.12E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13967-70-9 | Cesium-134 | <5.55E-1 | pCi/g dry | 5.55E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 10045-97-3 | Cesium-137 | <5.14E-1 | pCi/g dry | 5.14E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13982-30-4 | Cerium-139 | <5.49E-1 | pCi/g dry | 5.49E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14762-78-8 | Cerium-144 | <3.77E0 | pCi/g dry | 3.77E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14683-23-9 | Europium-152 | <1.90E0 | pCi/g dry | 1.90E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14276-65-4 | Gadolinium-153 | <1.42E0 | pCi/g dry | 1.42E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15585-10-1 | Europium-154 | <9.85E-1 | pCi/g dry | 9.85E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14391-16-3 | Europium-155 | <1.50E0 | pCi/g dry | 1.50E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13982-78-0 | Mercury-203 | <5.96E-1 | pCi/g dry | 5.96E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14913-50-9 | Thallium-208 | <5.63E-1 | pCi/g dry | 5.63E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14331-79-4 | Bismuth-210 | <9.04E-1 | pCi/g dry | 9.04E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14255-04-0 | Lead-210 | <6.89E1 | pCi/g dry | 6.89E1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| | Bismuth-211 | <1.05E1 | pCi/g dry | 1.05E1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| | Lead-211 | <1.44E1 | pCi/g dry | 1.44E1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15092-94-1 | Lead-212 | <1.22E0 | pCi/g dry | 1.22E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14733-03-0 | Bismuth-214 | <1.19E0 | pCi/g dry | 1.19E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15067-28-4 | Lead-214 | <1.32E0 | pCi/g dry | 1.32E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14835-02-0 | Radon-219 | <4.56E0 | pCi/g dry | 4.56E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 22481-48-7 | Radon-220 | <4.52E2 | pCi/g dry | 4.52E2 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 28522-20-5 | Radon-221 | <2.15E0 | pCi/g dry | 2.15E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15756-98-6 | Francium-223 | <1.53E1 | pCi/g dry | 1.53E1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15623-45-7 | Radium-223 | <3.29E0 | pCi/g dry | 3.29E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13233-32-4 | Radium-224 | <1.33E1 | pCi/g dry | 1.33E1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13982-63-3 | Radium-226 | <1.32E1 | pCi/g dry | 1.32E1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15623-47-9 | Thorium-227 | <4.65E0 | pCi/g dry | 4.65E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14331-83-0 | Actinium-228 | <1.96E0 | pCi/g dry | 1.96E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14274-82-9 | Thorium-228 | <1.66E2 | pCi/g dry | 1.66E2 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14269-63-7 | Thorium-230 | <1.76E2 | pCi/g dry | 1.76E2 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14331-85-2 | Protactinium-231 | <2.03E1 | pCi/g dry | 2.03E1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14932-40-2 | Thorium-231 | <1.02E2 | pCi/g dry | 1.02E2 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 7440-29-1 | Thorium-232 | <4.44E2 | pCi/g dry | 4.44E2 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13981-14-1 | Protactinium-233 | <1.23E0 | pCi/g dry | 1.23E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15100-28-4 | Protactinium-234 | <1.86E0 | pCi/g dry | 1.86E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| | Protactinium-234m | <5.42E1 | pCi/g dry | 5.42E1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15065-10-8 | Thorium-234 | <1.54E1 | pCi/g dry | 1.54E1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15117-96-1 | Uranium 235 | <4.05E0 | pCi/g dry | 4.05E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |

# GEA/Soil

| CAS # | Analyte | Results | Units | MDA | UNC | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ55C** | | **Lab ID:** | **0805020-05** | | | | |
| 13994-20-2 | Neptunium-237 | <3.91E0 | pCi/g dry | 3.91E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13981-16-3 | Plutonium-238 | <5.88E3 | pCi/g dry | 5.88E3 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| | Uranium 238 | <8.26E0 | pCi/g dry | 8.26E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15117-48-3 | Plutonium-239 | <6.14E3 | pCi/g dry | 6.14E3 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14119-33-6 | Plutonium-240 | <5.89E3 | pCi/g dry | 5.89E3 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14596-10-2 | Americium-241 | <2.27E0 | pCi/g dry | 2.27E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14993-75-0 | Americium-243 | <9.59E-1 | pCi/g dry | 9.59E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15757-87-6 | Curium-243 | <1.80E0 | pCi/g dry | 1.80E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15621-76-8 | Curium-245 | <1.48E0 | pCi/g dry | 1.48E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| **HEIS No.** | **B1VJ56A** | | **Lab ID:** | **0805020-07** | | | | |
| 13966-32-0 | Sodium-22 | <3.46E-1 | pCi/g dry | 3.46E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13966-00-2 | Potassium-40 | 1.76E1 | pCi/g dry | 2.79E0 | 1.17 | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14392-02-0 | Chromium-51 | <2.86E0 | pCi/g dry | 2.86E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13966-31-9 | Manganese-54 | <3.01E-1 | pCi/g dry | 3.01E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13981-50-5 | Cobalt-57 | <2.91E-1 | pCi/g dry | 2.91E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14596-12-4 | Iron-59 | <5.79E-1 | pCi/g dry | 5.79E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 10198-40-0 | Cobalt-60 | <4.10E-1 | pCi/g dry | 4.10E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13982-39-3 | Zinc-65 | <6.44E-1 | pCi/g dry | 6.44E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14265-71-5 | Selenium-75 | <4.97E-1 | pCi/g dry | 4.97E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 17056-36-9 | Rubidium-83 | <6.06E-1 | pCi/g dry | 6.06E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13967-73-2 | Strontium-85 | <3.90E-1 | pCi/g dry | 3.90E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14932-53-7 | Rubidium-86 | <3.57E0 | pCi/g dry | 3.57E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13982-36-0 | Yttrium-88 | <2.47E-1 | pCi/g dry | 2.47E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14681-63-1 | Niobium-94 | <3.08E-1 | pCi/g dry | 3.08E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13967-76-5 | Niobium-95 | <3.23E-1 | pCi/g dry | 3.23E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| | Niobium-95m | <1.33E0 | pCi/g dry | 1.33E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| | Technetium-95m | <4.64E-1 | pCi/g dry | 4.64E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13967-71-0 | Zirconium-95 | <5.29E-1 | pCi/g dry | 5.29E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| | Technetium-99m | <2.95E-1 | pCi/g dry | 2.95E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13968-53-1 | Ruthenium-103 | <2.97E-1 | pCi/g dry | 2.97E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13967-48-1 | Ruthenium-106 | <3.24E0 | pCi/g dry | 3.24E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14391-65-2 | Silver-108m | <3.20E-1 | pCi/g dry | 3.20E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14109-32-1 | Cadmium-109 | <7.95E0 | pCi/g dry | 7.95E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| | Silver-110 | <3.18E-1 | pCi/g dry | 3.18E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14391-76-5 | Silver-110m | <3.19E-1 | pCi/g dry | 3.19E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13966-06-8 | Tin-113 | <4.55E-1 | pCi/g dry | 4.55E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14683-10-4 | Antimony-124 | <3.04E-1 | pCi/g dry | 3.04E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14234-35-6 | Antimony-125 | <9.82E-1 | pCi/g dry | 9.82E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15756-32-8 | Antimony-126 | <3.12E-1 | pCi/g dry | 3.12E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15832-50-5 | Tin-126 | <6.38E-1 | pCi/g dry | 6.38E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 10043-66-0 | Iodine-131 | <3.59E-1 | pCi/g dry | 3.59E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13981-41-4 | Barium-133 | <5.31E-1 | pCi/g dry | 5.31E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13967-70-9 | Cesium-134 | <3.51E-1 | pCi/g dry | 3.51E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 10045-97-3 | Cesium-137 | <3.50E-1 | pCi/g dry | 3.50E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13982-30-4 | Cerium-139 | <3.42E-1 | pCi/g dry | 3.42E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14762-78-8 | Cerium-144 | <2.41E0 | pCi/g dry | 2.41E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14683-23-9 | Europium-152 | <1.12E0 | pCi/g dry | 1.12E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14276-65-4 | Gadolinium-153 | <8.58E-1 | pCi/g dry | 8.58E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |

# GEA/Soil

| CAS # | Analyte | Results | Units | MDA | UNC | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ56A** | | **Lab ID:** | **0805020-07** | | | | |
| 15585-10-1 | Europium-154 | <6.24E-1 | pCi/g dry | 6.24E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14391-16-3 | Europium-155 | <8.97E-1 | pCi/g dry | 8.97E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13982-78-0 | Mercury-203 | <3.80E-1 | pCi/g dry | 3.80E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14913-50-9 | Thallium-208 | <2.69E-1 | pCi/g dry | 2.69E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14331-79-4 | Bismuth-210 | <6.00E-1 | pCi/g dry | 6.00E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14255-04-0 | Lead-210 | <1.17E2 | pCi/g dry | 1.17E2 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| | Bismuth-211 | <7.04E0 | pCi/g dry | 7.04E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| | Lead-211 | <9.62E0 | pCi/g dry | 9.62E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15092-94-1 | Lead-212 | <7.92E-1 | pCi/g dry | 7.92E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14733-03-0 | Bismuth-214 | <7.53E-1 | pCi/g dry | 7.53E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15067-28-4 | Lead-214 | <8.50E-1 | pCi/g dry | 8.50E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14835-02-0 | Radon-219 | <3.03E0 | pCi/g dry | 3.03E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 22481-48-7 | Radon-220 | <2.52E2 | pCi/g dry | 2.52E2 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 28522-20-5 | Radon-221 | <1.37E0 | pCi/g dry | 1.37E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15756-98-6 | Francium-223 | <9.80E0 | pCi/g dry | 9.80E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15623-45-7 | Radium-223 | <2.20E0 | pCi/g dry | 2.20E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13233-32-4 | Radium-224 | <8.49E0 | pCi/g dry | 8.49E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13982-63-3 | Radium-226 | <8.51E0 | pCi/g dry | 8.51E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15623-47-9 | Thorium-227 | <2.98E0 | pCi/g dry | 2.98E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14331-83-0 | Actinium-228 | <1.31E0 | pCi/g dry | 1.31E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14274-82-9 | Thorium-228 | <1.10E2 | pCi/g dry | 1.10E2 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14269-63-7 | Thorium-230 | <1.09E2 | pCi/g dry | 1.09E2 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14331-85-2 | Protactinium-231 | <1.28E1 | pCi/g dry | 1.28E1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14932-40-2 | Thorium-231 | <6.05E1 | pCi/g dry | 6.05E1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 7440-29-1 | Thorium-232 | <3.59E2 | pCi/g dry | 3.59E2 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13981-14-1 | Protactinium-233 | <7.73E-1 | pCi/g dry | 7.73E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15100-28-4 | Protactinium-234 | <1.09E0 | pCi/g dry | 1.09E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| | Protactinium-234m | <4.06E1 | pCi/g dry | 4.06E1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15065-10-8 | Thorium-234 | <1.00E1 | pCi/g dry | 1.00E1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15117-96-1 | Uranium 235 | <2.55E0 | pCi/g dry | 2.55E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13994-20-2 | Neptunium-237 | <2.33E0 | pCi/g dry | 2.33E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13981-16-3 | Plutonium-238 | <3.39E3 | pCi/g dry | 3.39E3 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| | Uranium 238 | <5.19E0 | pCi/g dry | 5.19E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15117-48-3 | Plutonium-239 | <4.21E3 | pCi/g dry | 4.21E3 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14119-33-6 | Plutonium-240 | <3.54E3 | pCi/g dry | 3.54E3 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14596-10-2 | Americium-241 | <1.80E0 | pCi/g dry | 1.80E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14993-75-0 | Americium-243 | <6.02E-1 | pCi/g dry | 6.02E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15757-87-6 | Curium-243 | <1.08E0 | pCi/g dry | 1.08E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15621-76-8 | Curium-245 | <8.86E-1 | pCi/g dry | 8.86E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| **HEIS No.** | **B1VJ56B** | | **Lab ID:** | **0805020-08** | | | | |
| 13966-32-0 | Sodium-22 | <3.33E-1 | pCi/g dry | 3.33E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13966-00-2 | Potassium-40 | <6.74E0 | pCi/g dry | 6.74E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14392-02-0 | Chromium-51 | <2.95E0 | pCi/g dry | 2.95E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13966-31-9 | Manganese-54 | <3.47E-1 | pCi/g dry | 3.47E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13981-50-5 | Cobalt-57 | <3.19E-1 | pCi/g dry | 3.19E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14596-12-4 | Iron-59 | <6.15E-1 | pCi/g dry | 6.15E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 10198-40-0 | Cobalt-60 | <4.01E-1 | pCi/g dry | 4.01E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13982-39-3 | Zinc-65 | <7.19E-1 | pCi/g dry | 7.19E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |

# GEA/Soil

| CAS # | Analyte | Results | Units | MDA | UNC | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ56B** | | **Lab ID:** | **0805020-08** | | | | |
| 14265-71-5 | Selenium-75 | <4.99E-1 | pCi/g dry | 4.99E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 17056-36-9 | Rubidium-83 | <8.07E-1 | pCi/g dry | 8.07E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13967-73-2 | Strontium-85 | <3.75E-1 | pCi/g dry | 3.75E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14932-53-7 | Rubidium-86 | <4.46E0 | pCi/g dry | 4.46E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13982-36-0 | Yttrium-88 | <2.99E-1 | pCi/g dry | 2.99E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14681-63-1 | Niobium-94 | <3.23E-1 | pCi/g dry | 3.23E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13967-76-5 | Niobium-95 | <3.29E-1 | pCi/g dry | 3.29E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| | Niobium-95m | <1.42E0 | pCi/g dry | 1.42E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| | Technetium-95m | <4.92E-1 | pCi/g dry | 4.92E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13967-71-0 | Zirconium-95 | <5.81E-1 | pCi/g dry | 5.81E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| | Technetium-99m | <3.12E-1 | pCi/g dry | 3.12E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13968-53-1 | Ruthenium-103 | <3.75E-1 | pCi/g dry | 3.75E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13967-48-1 | Ruthenium-106 | <3.66E0 | pCi/g dry | 3.66E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14391-65-2 | Silver-108m | <3.07E-1 | pCi/g dry | 3.07E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14109-32-1 | Cadmium-109 | <8.87E0 | pCi/g dry | 8.87E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| | Silver-110 | <3.20E-1 | pCi/g dry | 3.20E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14391-76-5 | Silver-110m | <3.21E-1 | pCi/g dry | 3.21E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13966-06-8 | Tin-113 | <4.69E-1 | pCi/g dry | 4.69E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14683-10-4 | Antimony-124 | <3.92E-1 | pCi/g dry | 3.92E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14234-35-6 | Antimony-125 | <9.63E-1 | pCi/g dry | 9.63E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15756-32-8 | Antimony-126 | <3.00E-1 | pCi/g dry | 3.00E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15832-50-5 | Tin-126 | <7.30E-1 | pCi/g dry | 7.30E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 10043-66-0 | Iodine-131 | <3.85E-1 | pCi/g dry | 3.85E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13981-41-4 | Barium-133 | <5.25E-1 | pCi/g dry | 5.25E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13967-70-9 | Cesium-134 | <3.67E-1 | pCi/g dry | 3.67E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 10045-97-3 | Cesium-137 | <3.56E-1 | pCi/g dry | 3.56E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13982-30-4 | Cerium-139 | <3.64E-1 | pCi/g dry | 3.64E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14762-78-8 | Cerium-144 | <2.54E0 | pCi/g dry | 2.54E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14683-23-9 | Europium-152 | <1.27E0 | pCi/g dry | 1.27E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14276-65-4 | Gadolinium-153 | <9.78E-1 | pCi/g dry | 9.78E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15585-10-1 | Europium-154 | <6.70E-1 | pCi/g dry | 6.70E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14391-16-3 | Europium-155 | <1.04E0 | pCi/g dry | 1.04E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13982-78-0 | Mercury-203 | <3.85E-1 | pCi/g dry | 3.85E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14913-50-9 | Thallium-208 | <4.07E-1 | pCi/g dry | 4.07E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14331-79-4 | Bismuth-210 | <5.97E-1 | pCi/g dry | 5.97E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14255-04-0 | Lead-210 | <4.59E1 | pCi/g dry | 4.59E1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| | Bismuth-211 | <7.40E0 | pCi/g dry | 7.40E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| | Lead-211 | <1.01E1 | pCi/g dry | 1.01E1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15092-94-1 | Lead-212 | <8.24E-1 | pCi/g dry | 8.24E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14733-03-0 | Bismuth-214 | <8.26E-1 | pCi/g dry | 8.26E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15067-28-4 | Lead-214 | <8.66E-1 | pCi/g dry | 8.66E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14835-02-0 | Radon-219 | <3.00E0 | pCi/g dry | 3.00E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 22481-48-7 | Radon-220 | <3.12E2 | pCi/g dry | 3.12E2 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 28522-20-5 | Radon-221 | <1.47E0 | pCi/g dry | 1.47E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15756-98-6 | Francium-223 | <1.04E1 | pCi/g dry | 1.04E1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15623-45-7 | Radium-223 | <2.20E0 | pCi/g dry | 2.20E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13233-32-4 | Radium-224 | <8.98E0 | pCi/g dry | 8.98E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13982-63-3 | Radium-226 | <9.05E0 | pCi/g dry | 9.05E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15623-47-9 | Thorium-227 | <3.17E0 | pCi/g dry | 3.17E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |

# GEA/Soil

| CAS # | Analyte | Results | Units | MDA | UNC | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ56B** | | **Lab ID:** | **0805020-08** | | | | |
| 14331-83-0 | Actinium-228 | <1.39E0 | pCi/g dry | 1.39E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14274-82-9 | Thorium-228 | <1.15E2 | pCi/g dry | 1.15E2 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14269-63-7 | Thorium-230 | <1.21E2 | pCi/g dry | 1.21E2 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14331-85-2 | Protactinium-231 | <1.35E1 | pCi/g dry | 1.35E1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14932-40-2 | Thorium-231 | <6.93E1 | pCi/g dry | 6.93E1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 7440-29-1 | Thorium-232 | <3.01E2 | pCi/g dry | 3.01E2 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13981-14-1 | Protactinium-233 | <8.23E-1 | pCi/g dry | 8.23E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15100-28-4 | Protactinium-234 | <1.27E0 | pCi/g dry | 1.27E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| | Protactinium-234m | <3.66E1 | pCi/g dry | 3.66E1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15065-10-8 | Thorium-234 | <1.05E1 | pCi/g dry | 1.05E1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15117-96-1 | Uranium 235 | <2.63E0 | pCi/g dry | 2.63E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13994-20-2 | Neptunium-237 | <2.70E0 | pCi/g dry | 2.70E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13981-16-3 | Plutonium-238 | <3.98E3 | pCi/g dry | 3.98E3 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| | Uranium 238 | <5.65E0 | pCi/g dry | 5.65E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15117-48-3 | Plutonium-239 | <4.15E3 | pCi/g dry | 4.15E3 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14119-33-6 | Plutonium-240 | <3.99E3 | pCi/g dry | 3.99E3 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14596-10-2 | Americium-241 | <1.54E0 | pCi/g dry | 1.54E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14993-75-0 | Americium-243 | <6.64E-1 | pCi/g dry | 6.64E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15757-87-6 | Curium-243 | <1.22E0 | pCi/g dry | 1.22E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15621-76-8 | Curium-245 | <1.00E0 | pCi/g dry | 1.00E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| **HEIS No.** | **B1VJ56C** | | **Lab ID:** | **0805020-09** | | | | |
| 13966-32-0 | Sodium-22 | <2.87E-1 | pCi/g dry | 2.87E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13966-00-2 | Potassium-40 | 1.65E1 | pCi/g dry | 2.83E0 | 1.1 | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14392-02-0 | Chromium-51 | <2.45E0 | pCi/g dry | 2.45E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13966-31-9 | Manganese-54 | <2.45E-1 | pCi/g dry | 2.45E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13981-50-5 | Cobalt-57 | <2.61E-1 | pCi/g dry | 2.61E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14596-12-4 | Iron-59 | <5.03E-1 | pCi/g dry | 5.03E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 10198-40-0 | Cobalt-60 | <2.80E-1 | pCi/g dry | 2.80E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13982-39-3 | Zinc-65 | <5.94E-1 | pCi/g dry | 5.94E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14265-71-5 | Selenium-75 | <4.18E-1 | pCi/g dry | 4.18E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 17056-36-9 | Rubidium-83 | <4.80E-1 | pCi/g dry | 4.80E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13967-73-2 | Strontium-85 | <3.35E-1 | pCi/g dry | 3.35E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14932-53-7 | Rubidium-86 | <2.99E0 | pCi/g dry | 2.99E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13982-36-0 | Yttrium-88 | <1.87E-1 | pCi/g dry | 1.87E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14681-63-1 | Niobium-94 | <2.53E-1 | pCi/g dry | 2.53E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13967-76-5 | Niobium-95 | <2.76E-1 | pCi/g dry | 2.76E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| | Niobium-95m | <1.20E0 | pCi/g dry | 1.20E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| | Technetium-95m | <4.13E-1 | pCi/g dry | 4.13E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13967-71-0 | Zirconium-95 | <4.65E-1 | pCi/g dry | 4.65E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| | Technetium-99m | <2.66E-1 | pCi/g dry | 2.66E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13968-53-1 | Ruthenium-103 | <2.73E-1 | pCi/g dry | 2.73E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13967-48-1 | Ruthenium-106 | <2.45E0 | pCi/g dry | 2.45E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14391-65-2 | Silver-108m | <2.53E-1 | pCi/g dry | 2.53E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14109-32-1 | Cadmium-109 | <7.04E0 | pCi/g dry | 7.04E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| | Silver-110 | <2.69E-1 | pCi/g dry | 2.69E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14391-76-5 | Silver-110m | <2.70E-1 | pCi/g dry | 2.70E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13966-06-8 | Tin-113 | <3.65E-1 | pCi/g dry | 3.65E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14683-10-4 | Antimony-124 | <2.71E-1 | pCi/g dry | 2.71E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |

# GEA/Soil

| CAS # | Analyte | Results | Units | MDA | UNC | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ56C** | | **Lab ID:** | **0805020-09** | | | | |
| 14234-35-6 | Antimony-125 | <7.72E-1 | pCi/g dry | 7.72E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15756-32-8 | Antimony-126 | <2.66E-1 | pCi/g dry | 2.66E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15832-50-5 | Tin-126 | <5.55E-1 | pCi/g dry | 5.55E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 10043-66-0 | Iodine-131 | <2.86E-1 | pCi/g dry | 2.86E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13981-41-4 | Barium-133 | <4.76E-1 | pCi/g dry | 4.76E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13967-70-9 | Cesium-134 | <3.08E-1 | pCi/g dry | 3.08E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 10045-97-3 | Cesium-137 | <3.06E-1 | pCi/g dry | 3.06E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13982-30-4 | Cerium-139 | <2.91E-1 | pCi/g dry | 2.91E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14762-78-8 | Cerium-144 | <2.14E0 | pCi/g dry | 2.14E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14683-23-9 | Europium-152 | <1.00E0 | pCi/g dry | 1.00E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14276-65-4 | Gadolinium-153 | <8.07E-1 | pCi/g dry | 8.07E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15585-10-1 | Europium-154 | <5.49E-1 | pCi/g dry | 5.49E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14391-16-3 | Europium-155 | <7.86E-1 | pCi/g dry | 7.86E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13982-78-0 | Mercury-203 | <3.19E-1 | pCi/g dry | 3.19E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14913-50-9 | Thallium-208 | 4.38E-1 | pCi/g dry | 2.92E-1 | 0.331 | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14331-79-4 | Bismuth-210 | <5.03E-1 | pCi/g dry | 5.03E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14255-04-0 | Lead-210 | <9.94E1 | pCi/g dry | 9.94E1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| | Bismuth-211 | <6.04E0 | pCi/g dry | 6.04E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| | Lead-211 | <8.26E0 | pCi/g dry | 8.26E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15092-94-1 | Lead-212 | <7.14E-1 | pCi/g dry | 7.14E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14733-03-0 | Bismuth-214 | <6.74E-1 | pCi/g dry | 6.74E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15067-28-4 | Lead-214 | 1.66E0 | pCi/g dry | 6.06E-1 | 1.81 | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14835-02-0 | Radon-219 | <2.56E0 | pCi/g dry | 2.56E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 22481-48-7 | Radon-220 | <2.22E2 | pCi/g dry | 2.22E2 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 28522-20-5 | Radon-221 | <1.24E0 | pCi/g dry | 1.24E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15756-98-6 | Francium-223 | <8.81E0 | pCi/g dry | 8.81E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15623-45-7 | Radium-223 | <1.86E0 | pCi/g dry | 1.86E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13233-32-4 | Radium-224 | <7.51E0 | pCi/g dry | 7.51E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13982-63-3 | Radium-226 | <7.67E0 | pCi/g dry | 7.67E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15623-47-9 | Thorium-227 | <2.67E0 | pCi/g dry | 2.67E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14331-83-0 | Actinium-228 | <1.16E0 | pCi/g dry | 1.16E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14274-82-9 | Thorium-228 | <9.57E1 | pCi/g dry | 9.57E1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14269-63-7 | Thorium-230 | <9.72E1 | pCi/g dry | 9.72E1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14331-85-2 | Protactinium-231 | <1.11E1 | pCi/g dry | 1.11E1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14932-40-2 | Thorium-231 | <5.47E1 | pCi/g dry | 5.47E1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 7440-29-1 | Thorium-232 | <3.09E2 | pCi/g dry | 3.09E2 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13981-14-1 | Protactinium-233 | <7.01E-1 | pCi/g dry | 7.01E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15100-28-4 | Protactinium-234 | <1.03E0 | pCi/g dry | 1.03E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| | Protactinium-234m | <3.32E1 | pCi/g dry | 3.32E1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15065-10-8 | Thorium-234 | <9.22E0 | pCi/g dry | 9.22E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15117-96-1 | Uranium 235 | <2.25E0 | pCi/g dry | 2.25E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13994-20-2 | Neptunium-237 | <2.05E0 | pCi/g dry | 2.05E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13981-16-3 | Plutonium-238 | <3.20E3 | pCi/g dry | 3.20E3 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| | Uranium 238 | <4.77E0 | pCi/g dry | 4.77E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15117-48-3 | Plutonium-239 | <3.66E3 | pCi/g dry | 3.66E3 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14119-33-6 | Plutonium-240 | <3.20E3 | pCi/g dry | 3.20E3 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14596-10-2 | Americium-241 | <1.54E0 | pCi/g dry | 1.54E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14993-75-0 | Americium-243 | <3.44E-1 | pCi/g dry | 3.44E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15757-87-6 | Curium-243 | <9.74E-1 | pCi/g dry | 9.74E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |

# GEA/Soil

| CAS # | Analyte | Results | Units | MDA | UNC | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ56C** | | **Lab ID:** | **0805020-09** | | | | |
| 15621-76-8 | Curium-245 | <8.00E-1 | pCi/g dry | 8.00E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| **HEIS No.** | **B1VJ58C** | | **Lab ID:** | **0805020-10** | | | | |
| 13966-32-0 | Sodium-22 | <3.62E-1 | pCi/g dry | 3.62E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13966-00-2 | Potassium-40 | 2.06E1 | pCi/g dry | 2.94E0 | 1.18 | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14392-02-0 | Chromium-51 | <3.24E0 | pCi/g dry | 3.24E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13966-31-9 | Manganese-54 | <3.75E-1 | pCi/g dry | 3.75E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13981-50-5 | Cobalt-57 | <3.35E-1 | pCi/g dry | 3.35E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14596-12-4 | Iron-59 | <7.00E-1 | pCi/g dry | 7.00E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 10198-40-0 | Cobalt-60 | <6.37E-1 | pCi/g dry | 6.37E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13982-39-3 | Zinc-65 | <8.73E-1 | pCi/g dry | 8.73E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14265-71-5 | Selenium-75 | <5.54E-1 | pCi/g dry | 5.54E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 17056-36-9 | Rubidium-83 | <8.43E-1 | pCi/g dry | 8.43E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13967-73-2 | Strontium-85 | <3.97E-1 | pCi/g dry | 3.97E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14932-53-7 | Rubidium-86 | <4.69E0 | pCi/g dry | 4.69E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13982-36-0 | Yttrium-88 | <2.99E-1 | pCi/g dry | 2.99E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14681-63-1 | Niobium-94 | <3.51E-1 | pCi/g dry | 3.51E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13967-76-5 | Niobium-95 | <3.39E-1 | pCi/g dry | 3.39E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| | Niobium-95m | <1.52E0 | pCi/g dry | 1.52E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| | Technetium-95m | <5.15E-1 | pCi/g dry | 5.15E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13967-71-0 | Zirconium-95 | <6.29E-1 | pCi/g dry | 6.29E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| | Technetium-99m | <3.39E-1 | pCi/g dry | 3.39E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13968-53-1 | Ruthenium-103 | <3.89E-1 | pCi/g dry | 3.89E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13967-48-1 | Ruthenium-106 | <4.06E0 | pCi/g dry | 4.06E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14391-65-2 | Silver-108m | <3.53E-1 | pCi/g dry | 3.53E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14109-32-1 | Cadmium-109 | <9.28E0 | pCi/g dry | 9.28E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| | Silver-110 | <3.61E-1 | pCi/g dry | 3.61E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14391-76-5 | Silver-110m | <3.62E-1 | pCi/g dry | 3.62E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13966-06-8 | Tin-113 | <4.91E-1 | pCi/g dry | 4.91E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14683-10-4 | Antimony-124 | <4.22E-1 | pCi/g dry | 4.22E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14234-35-6 | Antimony-125 | <1.09E0 | pCi/g dry | 1.09E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15756-32-8 | Antimony-126 | <3.39E-1 | pCi/g dry | 3.39E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15832-50-5 | Tin-126 | <7.58E-1 | pCi/g dry | 7.58E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 10043-66-0 | Iodine-131 | <4.25E-1 | pCi/g dry | 4.25E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13981-41-4 | Barium-133 | <5.90E-1 | pCi/g dry | 5.90E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13967-70-9 | Cesium-134 | <4.28E-1 | pCi/g dry | 4.28E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 10045-97-3 | Cesium-137 | <4.02E-1 | pCi/g dry | 4.02E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13982-30-4 | Cerium-139 | <3.86E-1 | pCi/g dry | 3.86E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14762-78-8 | Cerium-144 | <2.77E0 | pCi/g dry | 2.77E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14683-23-9 | Europium-152 | <1.37E0 | pCi/g dry | 1.37E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14276-65-4 | Gadolinium-153 | <1.03E0 | pCi/g dry | 1.03E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15585-10-1 | Europium-154 | <7.10E-1 | pCi/g dry | 7.10E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14391-16-3 | Europium-155 | <1.08E0 | pCi/g dry | 1.08E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13982-78-0 | Mercury-203 | <4.22E-1 | pCi/g dry | 4.22E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14913-50-9 | Thallium-208 | <4.32E-1 | pCi/g dry | 4.32E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14331-79-4 | Bismuth-210 | <6.58E-1 | pCi/g dry | 6.58E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14255-04-0 | Lead-210 | <4.53E1 | pCi/g dry | 4.53E1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| | Bismuth-211 | <7.48E0 | pCi/g dry | 7.48E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| | Lead-211 | <1.02E1 | pCi/g dry | 1.02E1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |

# GEA/Soil

| CAS # | Analyte | Results | Units | MDA | UNC | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ58C** | | **Lab ID:** | **0805020-10** | | | | |
| 15092-94-1 | Lead-212 | <8.83E-1 | pCi/g dry | 8.83E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14733-03-0 | Bismuth-214 | <9.08E-1 | pCi/g dry | 9.08E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15067-28-4 | Lead-214 | <9.50E-1 | pCi/g dry | 9.50E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14835-02-0 | Radon-219 | <3.28E0 | pCi/g dry | 3.28E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 22481-48-7 | Radon-220 | <3.27E2 | pCi/g dry | 3.27E2 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 28522-20-5 | Radon-221 | <1.52E0 | pCi/g dry | 1.52E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15756-98-6 | Francium-223 | <1.12E1 | pCi/g dry | 1.12E1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15623-45-7 | Radium-223 | <2.42E0 | pCi/g dry | 2.42E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13233-32-4 | Radium-224 | <9.54E0 | pCi/g dry | 9.54E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13982-63-3 | Radium-226 | <9.36E0 | pCi/g dry | 9.36E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15623-47-9 | Thorium-227 | <3.39E0 | pCi/g dry | 3.39E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14331-83-0 | Actinium-228 | <1.60E0 | pCi/g dry | 1.60E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14274-82-9 | Thorium-228 | <1.23E2 | pCi/g dry | 1.23E2 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14269-63-7 | Thorium-230 | <1.25E2 | pCi/g dry | 1.25E2 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14331-85-2 | Protactinium-231 | <1.48E1 | pCi/g dry | 1.48E1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14932-40-2 | Thorium-231 | <7.15E1 | pCi/g dry | 7.15E1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 7440-29-1 | Thorium-232 | <3.16E2 | pCi/g dry | 3.16E2 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13981-14-1 | Protactinium-233 | <9.00E-1 | pCi/g dry | 9.00E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15100-28-4 | Protactinium-234 | <1.33E0 | pCi/g dry | 1.33E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| | Protactinium-234m | <4.89E1 | pCi/g dry | 4.89E1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15065-10-8 | Thorium-234 | <1.11E1 | pCi/g dry | 1.11E1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15117-96-1 | Uranium 235 | <2.89E0 | pCi/g dry | 2.89E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13994-20-2 | Neptunium-237 | <2.81E0 | pCi/g dry | 2.81E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 13981-16-3 | Plutonium-238 | <4.15E3 | pCi/g dry | 4.15E3 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| | Uranium 238 | <5.94E0 | pCi/g dry | 5.94E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15117-48-3 | Plutonium-239 | <4.38E3 | pCi/g dry | 4.38E3 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14119-33-6 | Plutonium-240 | <4.12E3 | pCi/g dry | 4.12E3 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14596-10-2 | Americium-241 | <1.61E0 | pCi/g dry | 1.61E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 14993-75-0 | Americium-243 | <6.84E-1 | pCi/g dry | 6.84E-1 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15757-87-6 | Curium-243 | <1.26E0 | pCi/g dry | 1.26E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| 15621-76-8 | Curium-245 | <1.04E0 | pCi/g dry | 1.04E0 | | 6/20/08 | 8F20002 | AGG-RRL-001 |
| **HEIS No.** | **B1VJ58B** | | **Lab ID:** | **0805020-11** | | | | |
| 13966-32-0 | Sodium-22 | <3.16E-1 | pCi/g dry | 3.16E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13966-00-2 | Potassium-40 | 2.09E1 | pCi/g dry | 2.93E0 | 1.2 | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14392-02-0 | Chromium-51 | <2.71E0 | pCi/g dry | 2.71E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13966-31-9 | Manganese-54 | <2.90E-1 | pCi/g dry | 2.90E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13981-50-5 | Cobalt-57 | <2.71E-1 | pCi/g dry | 2.71E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14596-12-4 | Iron-59 | <6.06E-1 | pCi/g dry | 6.06E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 10198-40-0 | Cobalt-60 | 1.72E0 | pCi/g dry | 2.74E-1 | 0.154 | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13982-39-3 | Zinc-65 | <8.02E-1 | pCi/g dry | 8.02E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14265-71-5 | Selenium-75 | <4.60E-1 | pCi/g dry | 4.60E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 17056-36-9 | Rubidium-83 | <5.60E-1 | pCi/g dry | 5.60E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13967-73-2 | Strontium-85 | <1.60E-1 | pCi/g dry | 1.60E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14932-53-7 | Rubidium-86 | <3.58E0 | pCi/g dry | 3.58E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13982-36-0 | Yttrium-88 | <1.93E-1 | pCi/g dry | 1.93E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14681-63-1 | Niobium-94 | <2.93E-1 | pCi/g dry | 2.93E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13967-76-5 | Niobium-95 | <2.98E-1 | pCi/g dry | 2.98E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Niobium-95m | <1.33E0 | pCi/g dry | 1.33E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |

# GEA/Soil

| CAS # | Analyte | Results | Units | MDA | UNC | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ58B** | | **Lab ID:** | **0805020-11** | | | | |
| | Technetium-95m | <4.42E-1 | pCi/g dry | 4.42E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13967-71-0 | Zirconium-95 | <5.00E-1 | pCi/g dry | 5.00E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Technetium-99m | <2.80E-1 | pCi/g dry | 2.80E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13968-53-1 | Ruthenium-103 | <2.91E-1 | pCi/g dry | 2.91E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13967-48-1 | Ruthenium-106 | <2.99E0 | pCi/g dry | 2.99E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14391-65-2 | Silver-108m | <2.92E-1 | pCi/g dry | 2.92E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14109-32-1 | Cadmium-109 | <7.48E0 | pCi/g dry | 7.48E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Silver-110 | <3.07E-1 | pCi/g dry | 3.07E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14391-76-5 | Silver-110m | <3.08E-1 | pCi/g dry | 3.08E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13966-06-8 | Tin-113 | <3.95E-1 | pCi/g dry | 3.95E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14683-10-4 | Antimony-124 | <2.94E-1 | pCi/g dry | 2.94E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14234-35-6 | Antimony-125 | <8.95E-1 | pCi/g dry | 8.95E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15756-32-8 | Antimony-126 | <3.03E-1 | pCi/g dry | 3.03E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15832-50-5 | Tin-126 | <5.92E-1 | pCi/g dry | 5.92E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 10043-66-0 | Iodine-131 | <3.13E-1 | pCi/g dry | 3.13E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13981-41-4 | Barium-133 | <5.14E-1 | pCi/g dry | 5.14E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13967-70-9 | Cesium-134 | <3.46E-1 | pCi/g dry | 3.46E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 10045-97-3 | Cesium-137 | <3.49E-1 | pCi/g dry | 3.49E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13982-30-4 | Cerium-139 | <3.21E-1 | pCi/g dry | 3.21E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14762-78-8 | Cerium-144 | <2.16E0 | pCi/g dry | 2.16E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14683-23-9 | Europium-152 | <1.07E0 | pCi/g dry | 1.07E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14276-65-4 | Gadolinium-153 | <8.18E-1 | pCi/g dry | 8.18E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15585-10-1 | Europium-154 | <5.80E-1 | pCi/g dry | 5.80E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14391-16-3 | Europium-155 | <8.28E-1 | pCi/g dry | 8.28E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13982-78-0 | Mercury-203 | <3.64E-1 | pCi/g dry | 3.64E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14913-50-9 | Thallium-208 | <3.20E-1 | pCi/g dry | 3.20E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14331-79-4 | Bismuth-210 | <5.49E-1 | pCi/g dry | 5.49E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14255-04-0 | Lead-210 | <1.02E2 | pCi/g dry | 1.02E2 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Bismuth-211 | <6.55E0 | pCi/g dry | 6.55E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Lead-211 | <8.96E0 | pCi/g dry | 8.96E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15092-94-1 | Lead-212 | <6.43E-1 | pCi/g dry | 6.43E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14733-03-0 | Bismuth-214 | <7.50E-1 | pCi/g dry | 7.50E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15067-28-4 | Lead-214 | 2.00E0 | pCi/g dry | 7.02E-1 | 0.925 | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14835-02-0 | Radon-219 | <2.90E0 | pCi/g dry | 2.90E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 22481-48-7 | Radon-220 | <2.53E2 | pCi/g dry | 2.53E2 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 28522-20-5 | Radon-221 | <1.32E0 | pCi/g dry | 1.32E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15756-98-6 | Francium-223 | <9.70E0 | pCi/g dry | 9.70E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15623-45-7 | Radium-223 | <2.06E0 | pCi/g dry | 2.06E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13233-32-4 | Radium-224 | <8.43E0 | pCi/g dry | 8.43E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13982-63-3 | Radium-226 | <8.13E0 | pCi/g dry | 8.13E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15623-47-9 | Thorium-227 | <2.97E0 | pCi/g dry | 2.97E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14331-83-0 | Actinium-228 | <1.46E0 | pCi/g dry | 1.46E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14274-82-9 | Thorium-228 | <1.01E2 | pCi/g dry | 1.01E2 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14269-63-7 | Thorium-230 | <1.07E2 | pCi/g dry | 1.07E2 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14331-85-2 | Protactinium-231 | <1.20E1 | pCi/g dry | 1.20E1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14932-40-2 | Thorium-231 | <5.57E1 | pCi/g dry | 5.57E1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 7440-29-1 | Thorium-232 | <3.52E2 | pCi/g dry | 3.52E2 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13981-14-1 | Protactinium-233 | <7.53E-1 | pCi/g dry | 7.53E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15100-28-4 | Protactinium-234 | <1.04E0 | pCi/g dry | 1.04E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |

# GEA/Soil

| CAS # | Analyte | Results | Units | MDA | UNC | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ58B** | | **Lab ID:** | **0805020-11** | | | | |
| | Protactinium-234m | <3.96E1 | pCi/g dry | 3.96E1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15065-10-8 | Thorium-234 | <9.64E0 | pCi/g dry | 9.64E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15117-96-1 | Uranium 235 | <2.34E0 | pCi/g dry | 2.34E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13994-20-2 | Neptunium-237 | <2.16E0 | pCi/g dry | 2.16E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13981-16-3 | Plutonium-238 | <3.23E3 | pCi/g dry | 3.23E3 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Uranium 238 | <4.99E0 | pCi/g dry | 4.99E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15117-48-3 | Plutonium-239 | <3.78E3 | pCi/g dry | 3.78E3 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14119-33-6 | Plutonium-240 | <3.25E3 | pCi/g dry | 3.25E3 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14596-10-2 | Americium-241 | <1.71E0 | pCi/g dry | 1.71E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14993-75-0 | Americium-243 | <6.05E-1 | pCi/g dry | 6.05E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15757-87-6 | Curium-243 | <9.90E-1 | pCi/g dry | 9.90E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15621-76-8 | Curium-245 | <8.13E-1 | pCi/g dry | 8.13E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| **HEIS No.** | **B1VJ58A** | | **Lab ID:** | **0805020-12** | | | | |
| 13966-32-0 | Sodium-22 | <3.43E-1 | pCi/g dry | 3.43E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13966-00-2 | Potassium-40 | <6.41E0 | pCi/g dry | 6.41E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14392-02-0 | Chromium-51 | <3.06E0 | pCi/g dry | 3.06E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13966-31-9 | Manganese-54 | <3.75E-1 | pCi/g dry | 3.75E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13981-50-5 | Cobalt-57 | <3.19E-1 | pCi/g dry | 3.19E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14596-12-4 | Iron-59 | <7.07E-1 | pCi/g dry | 7.07E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 10198-40-0 | Cobalt-60 | <6.26E-1 | pCi/g dry | 6.26E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13982-39-3 | Zinc-65 | <7.89E-1 | pCi/g dry | 7.89E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14265-71-5 | Selenium-75 | <5.25E-1 | pCi/g dry | 5.25E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 17056-36-9 | Rubidium-83 | <7.37E-1 | pCi/g dry | 7.37E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13967-73-2 | Strontium-85 | <3.39E-1 | pCi/g dry | 3.39E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14932-53-7 | Rubidium-86 | <4.42E0 | pCi/g dry | 4.42E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13982-36-0 | Yttrium-88 | <2.74E-1 | pCi/g dry | 2.74E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14681-63-1 | Niobium-94 | <3.36E-1 | pCi/g dry | 3.36E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13967-76-5 | Niobium-95 | <3.37E-1 | pCi/g dry | 3.37E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Niobium-95m | <1.41E0 | pCi/g dry | 1.41E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Technetium-95m | <4.78E-1 | pCi/g dry | 4.78E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13967-71-0 | Zirconium-95 | <5.74E-1 | pCi/g dry | 5.74E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Technetium-99m | <3.24E-1 | pCi/g dry | 3.24E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13968-53-1 | Ruthenium-103 | <3.50E-1 | pCi/g dry | 3.50E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13967-48-1 | Ruthenium-106 | <3.77E0 | pCi/g dry | 3.77E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14391-65-2 | Silver-108m | <3.26E-1 | pCi/g dry | 3.26E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14109-32-1 | Cadmium-109 | <9.00E0 | pCi/g dry | 9.00E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Silver-110 | <3.12E-1 | pCi/g dry | 3.12E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14391-76-5 | Silver-110m | <3.13E-1 | pCi/g dry | 3.13E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13966-06-8 | Tin-113 | <4.46E-1 | pCi/g dry | 4.46E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14683-10-4 | Antimony-124 | <3.80E-1 | pCi/g dry | 3.80E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14234-35-6 | Antimony-125 | <9.93E-1 | pCi/g dry | 9.93E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15756-32-8 | Antimony-126 | <3.11E-1 | pCi/g dry | 3.11E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15832-50-5 | Tin-126 | <7.35E-1 | pCi/g dry | 7.35E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 10043-66-0 | Iodine-131 | <4.06E-1 | pCi/g dry | 4.06E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13981-41-4 | Barium-133 | <5.44E-1 | pCi/g dry | 5.44E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13967-70-9 | Cesium-134 | <3.82E-1 | pCi/g dry | 3.82E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 10045-97-3 | Cesium-137 | <3.53E-1 | pCi/g dry | 3.53E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13982-30-4 | Cerium-139 | <3.66E-1 | pCi/g dry | 3.66E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |

# GEA/Soil

| CAS # | Analyte | Results | Units | MDA | UNC | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ58A** | | **Lab ID:** | **0805020-12** | | | | |
| 14762-78-8 | Cerium-144 | <2.59E0 | pCi/g dry | 2.59E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14683-23-9 | Europium-152 | <1.27E0 | pCi/g dry | 1.27E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14276-65-4 | Gadolinium-153 | <9.93E-1 | pCi/g dry | 9.93E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15585-10-1 | Europium-154 | <6.76E-1 | pCi/g dry | 6.76E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14391-16-3 | Europium-155 | <1.04E0 | pCi/g dry | 1.04E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13982-78-0 | Mercury-203 | <4.00E-1 | pCi/g dry | 4.00E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14913-50-9 | Thallium-208 | <4.04E-1 | pCi/g dry | 4.04E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14331-79-4 | Bismuth-210 | <6.29E-1 | pCi/g dry | 6.29E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14255-04-0 | Lead-210 | <4.30E1 | pCi/g dry | 4.30E1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Bismuth-211 | <7.21E0 | pCi/g dry | 7.21E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Lead-211 | <9.86E0 | pCi/g dry | 9.86E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15092-94-1 | Lead-212 | <8.20E-1 | pCi/g dry | 8.20E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14733-03-0 | Bismuth-214 | <8.35E-1 | pCi/g dry | 8.35E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15067-28-4 | Lead-214 | <8.84E-1 | pCi/g dry | 8.84E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14835-02-0 | Radon-219 | <3.16E0 | pCi/g dry | 3.16E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 22481-48-7 | Radon-220 | <3.20E2 | pCi/g dry | 3.20E2 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 28522-20-5 | Radon-221 | <1.44E0 | pCi/g dry | 1.44E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15756-98-6 | Francium-223 | <1.04E1 | pCi/g dry | 1.04E1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15623-45-7 | Radium-223 | <2.31E0 | pCi/g dry | 2.31E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13233-32-4 | Radium-224 | <8.88E0 | pCi/g dry | 8.88E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13982-63-3 | Radium-226 | <8.90E0 | pCi/g dry | 8.90E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15623-47-9 | Thorium-227 | <3.15E0 | pCi/g dry | 3.15E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14331-83-0 | Actinium-228 | <1.53E0 | pCi/g dry | 1.53E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14274-82-9 | Thorium-228 | <1.13E2 | pCi/g dry | 1.13E2 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14269-63-7 | Thorium-230 | <1.17E2 | pCi/g dry | 1.17E2 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14331-85-2 | Protactinium-231 | <1.41E1 | pCi/g dry | 1.41E1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14932-40-2 | Thorium-231 | <7.07E1 | pCi/g dry | 7.07E1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 7440-29-1 | Thorium-232 | <2.93E2 | pCi/g dry | 2.93E2 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13981-14-1 | Protactinium-233 | <8.54E-1 | pCi/g dry | 8.54E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15100-28-4 | Protactinium-234 | <1.30E0 | pCi/g dry | 1.30E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Protactinium-234m | <4.43E1 | pCi/g dry | 4.43E1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15065-10-8 | Thorium-234 | <1.03E1 | pCi/g dry | 1.03E1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15117-96-1 | Uranium 235 | <2.78E0 | pCi/g dry | 2.78E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13994-20-2 | Neptunium-237 | <2.72E0 | pCi/g dry | 2.72E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13981-16-3 | Plutonium-238 | <4.09E3 | pCi/g dry | 4.09E3 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Uranium 238 | <5.81E0 | pCi/g dry | 5.81E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15117-48-3 | Plutonium-239 | <4.08E3 | pCi/g dry | 4.08E3 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14119-33-6 | Plutonium-240 | <4.07E3 | pCi/g dry | 4.07E3 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14596-10-2 | Americium-241 | <1.49E0 | pCi/g dry | 1.49E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14993-75-0 | Americium-243 | <6.53E-1 | pCi/g dry | 6.53E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15757-87-6 | Curium-243 | <1.24E0 | pCi/g dry | 1.24E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15621-76-8 | Curium-245 | <1.02E0 | pCi/g dry | 1.02E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| **HEIS No.** | **B1VJ59C** | | **Lab ID:** | **0805020-14** | | | | |
| 13966-32-0 | Sodium-22 | <3.62E-1 | pCi/g dry | 3.62E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13966-00-2 | Potassium-40 | 2.43E1 | pCi/g dry | 2.99E0 | 1.35 | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14392-02-0 | Chromium-51 | <2.94E0 | pCi/g dry | 2.94E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13966-31-9 | Manganese-54 | <2.90E-1 | pCi/g dry | 2.90E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13981-50-5 | Cobalt-57 | <2.85E-1 | pCi/g dry | 2.85E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |

# GEA/Soil

| CAS # | Analyte | Results | Units | MDA | UNC | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ59C** | | **Lab ID:** | **0805020-14** | | | | |
| 14596-12-4 | Iron-59 | <5.05E-1 | pCi/g dry | 5.05E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 10198-40-0 | Cobalt-60 | <2.86E-1 | pCi/g dry | 2.86E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13982-39-3 | Zinc-65 | <6.51E-1 | pCi/g dry | 6.51E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14265-71-5 | Selenium-75 | <4.88E-1 | pCi/g dry | 4.88E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 17056-36-9 | Rubidium-83 | <5.94E-1 | pCi/g dry | 5.94E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13967-73-2 | Strontium-85 | <3.87E-1 | pCi/g dry | 3.87E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14932-53-7 | Rubidium-86 | <3.64E0 | pCi/g dry | 3.64E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13982-36-0 | Yttrium-88 | <2.44E-1 | pCi/g dry | 2.44E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14681-63-1 | Niobium-94 | <2.86E-1 | pCi/g dry | 2.86E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13967-76-5 | Niobium-95 | <3.13E-1 | pCi/g dry | 3.13E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Niobium-95m | <1.34E0 | pCi/g dry | 1.34E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Technetium-95m | <4.54E-1 | pCi/g dry | 4.54E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13967-71-0 | Zirconium-95 | <5.11E-1 | pCi/g dry | 5.11E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Technetium-99m | <2.85E-1 | pCi/g dry | 2.85E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13968-53-1 | Ruthenium-103 | <2.88E-1 | pCi/g dry | 2.88E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13967-48-1 | Ruthenium-106 | <2.73E0 | pCi/g dry | 2.73E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14391-65-2 | Silver-108m | <3.02E-1 | pCi/g dry | 3.02E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14109-32-1 | Cadmium-109 | <7.69E0 | pCi/g dry | 7.69E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Silver-110 | <2.99E-1 | pCi/g dry | 2.99E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14391-76-5 | Silver-110m | <3.00E-1 | pCi/g dry | 3.00E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13966-06-8 | Tin-113 | <4.11E-1 | pCi/g dry | 4.11E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14683-10-4 | Antimony-124 | <3.00E-1 | pCi/g dry | 3.00E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14234-35-6 | Antimony-125 | <9.11E-1 | pCi/g dry | 9.11E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15756-32-8 | Antimony-126 | <2.80E-1 | pCi/g dry | 2.80E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15832-50-5 | Tin-126 | <6.06E-1 | pCi/g dry | 6.06E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 10043-66-0 | Iodine-131 | <3.30E-1 | pCi/g dry | 3.30E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13981-41-4 | Barium-133 | <5.47E-1 | pCi/g dry | 5.47E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13967-70-9 | Cesium-134 | <3.42E-1 | pCi/g dry | 3.42E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 10045-97-3 | Cesium-137 | <3.30E-1 | pCi/g dry | 3.30E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13982-30-4 | Cerium-139 | <3.37E-1 | pCi/g dry | 3.37E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14762-78-8 | Cerium-144 | <2.28E0 | pCi/g dry | 2.28E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14683-23-9 | Europium-152 | <1.14E0 | pCi/g dry | 1.14E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14276-65-4 | Gadolinium-153 | <8.25E-1 | pCi/g dry | 8.25E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15585-10-1 | Europium-154 | <6.06E-1 | pCi/g dry | 6.06E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14391-16-3 | Europium-155 | <8.53E-1 | pCi/g dry | 8.53E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13982-78-0 | Mercury-203 | <3.66E-1 | pCi/g dry | 3.66E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14913-50-9 | Thallium-208 | <3.57E-1 | pCi/g dry | 3.57E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14331-79-4 | Bismuth-210 | <5.80E-1 | pCi/g dry | 5.80E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14255-04-0 | Lead-210 | <1.10E2 | pCi/g dry | 1.10E2 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Bismuth-211 | <6.86E0 | pCi/g dry | 6.86E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Lead-211 | <9.37E0 | pCi/g dry | 9.37E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15092-94-1 | Lead-212 | <7.68E-1 | pCi/g dry | 7.68E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14733-03-0 | Bismuth-214 | <7.20E-1 | pCi/g dry | 7.20E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15067-28-4 | Lead-214 | <8.81E-1 | pCi/g dry | 8.81E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14835-02-0 | Radon-219 | <2.84E0 | pCi/g dry | 2.84E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 22481-48-7 | Radon-220 | <2.64E2 | pCi/g dry | 2.64E2 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 28522-20-5 | Radon-221 | <1.32E0 | pCi/g dry | 1.32E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15756-98-6 | Francium-223 | <9.75E0 | pCi/g dry | 9.75E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15623-45-7 | Radium-223 | <2.10E0 | pCi/g dry | 2.10E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |

# GEA/Soil

| CAS # | Analyte | Results | Units | MDA | UNC | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ59C** | | **Lab ID:** | **0805020-14** | | | | |
| 13233-32-4 | Radium-224 | <8.52E0 | pCi/g dry | 8.52E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13982-63-3 | Radium-226 | <8.16E0 | pCi/g dry | 8.16E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15623-47-9 | Thorium-227 | <3.00E0 | pCi/g dry | 3.00E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14331-83-0 | Actinium-228 | <1.32E0 | pCi/g dry | 1.32E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14274-82-9 | Thorium-228 | <1.04E2 | pCi/g dry | 1.04E2 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14269-63-7 | Thorium-230 | <1.15E2 | pCi/g dry | 1.15E2 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14331-85-2 | Protactinium-231 | <1.20E1 | pCi/g dry | 1.20E1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14932-40-2 | Thorium-231 | <5.94E1 | pCi/g dry | 5.94E1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 7440-29-1 | Thorium-232 | <3.61E2 | pCi/g dry | 3.61E2 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13981-14-1 | Protactinium-233 | <7.93E-1 | pCi/g dry | 7.93E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15100-28-4 | Protactinium-234 | <1.05E0 | pCi/g dry | 1.05E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Protactinium-234m | <3.75E1 | pCi/g dry | 3.75E1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15065-10-8 | Thorium-234 | <9.62E0 | pCi/g dry | 9.62E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15117-96-1 | Uranium 235 | <2.42E0 | pCi/g dry | 2.42E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13994-20-2 | Neptunium-237 | <2.22E0 | pCi/g dry | 2.22E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13981-16-3 | Plutonium-238 | <3.36E3 | pCi/g dry | 3.36E3 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Uranium 238 | <4.98E0 | pCi/g dry | 4.98E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15117-48-3 | Plutonium-239 | <3.99E3 | pCi/g dry | 3.99E3 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14119-33-6 | Plutonium-240 | <3.47E3 | pCi/g dry | 3.47E3 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14596-10-2 | Americium-241 | <1.79E0 | pCi/g dry | 1.79E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14993-75-0 | Americium-243 | <6.05E-1 | pCi/g dry | 6.05E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15757-87-6 | Curium-243 | <1.06E0 | pCi/g dry | 1.06E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15621-76-8 | Curium-245 | <8.69E-1 | pCi/g dry | 8.69E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| **HEIS No.** | **B1VJ59B** | | **Lab ID:** | **0805020-15** | | | | |
| 13966-32-0 | Sodium-22 | <3.81E-1 | pCi/g dry | 3.81E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13966-00-2 | Potassium-40 | 2.34E1 | pCi/g dry | 3.78E0 | 1.45 | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14392-02-0 | Chromium-51 | <3.44E0 | pCi/g dry | 3.44E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13966-31-9 | Manganese-54 | <3.94E-1 | pCi/g dry | 3.94E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13981-50-5 | Cobalt-57 | <3.67E-1 | pCi/g dry | 3.67E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14596-12-4 | Iron-59 | <6.87E-1 | pCi/g dry | 6.87E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 10198-40-0 | Cobalt-60 | <3.83E-1 | pCi/g dry | 3.83E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13982-39-3 | Zinc-65 | <8.56E-1 | pCi/g dry | 8.56E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14265-71-5 | Selenium-75 | <5.80E-1 | pCi/g dry | 5.80E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 17056-36-9 | Rubidium-83 | <8.79E-1 | pCi/g dry | 8.79E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13967-73-2 | Strontium-85 | <4.22E-1 | pCi/g dry | 4.22E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14932-53-7 | Rubidium-86 | <4.72E0 | pCi/g dry | 4.72E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13982-36-0 | Yttrium-88 | <3.00E-1 | pCi/g dry | 3.00E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14681-63-1 | Niobium-94 | <3.48E-1 | pCi/g dry | 3.48E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13967-76-5 | Niobium-95 | <3.59E-1 | pCi/g dry | 3.59E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Niobium-95m | <1.56E0 | pCi/g dry | 1.56E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Technetium-95m | <5.38E-1 | pCi/g dry | 5.38E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13967-71-0 | Zirconium-95 | <6.40E-1 | pCi/g dry | 6.40E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Technetium-99m | <3.62E-1 | pCi/g dry | 3.62E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13968-53-1 | Ruthenium-103 | <4.15E-1 | pCi/g dry | 4.15E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13967-48-1 | Ruthenium-106 | <4.20E0 | pCi/g dry | 4.20E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14391-65-2 | Silver-108m | <3.53E-1 | pCi/g dry | 3.53E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14109-32-1 | Cadmium-109 | <1.02E1 | pCi/g dry | 1.02E1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Silver-110 | <3.48E-1 | pCi/g dry | 3.48E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |

# GEA/Soil

| CAS # | Analyte | Results | Units | MDA | UNC | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ59B** | | **Lab ID:** | **0805020-15** | | | | |
| 14391-76-5 | Silver-110m | <3.49E-1 | pCi/g dry | 3.49E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13966-06-8 | Tin-113 | <5.12E-1 | pCi/g dry | 5.12E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14683-10-4 | Antimony-124 | <4.33E-1 | pCi/g dry | 4.33E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14234-35-6 | Antimony-125 | <1.11E0 | pCi/g dry | 1.11E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15756-32-8 | Antimony-126 | <3.28E-1 | pCi/g dry | 3.28E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15832-50-5 | Tin-126 | <8.36E-1 | pCi/g dry | 8.36E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 10043-66-0 | Iodine-131 | <4.41E-1 | pCi/g dry | 4.41E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13981-41-4 | Barium-133 | <6.22E-1 | pCi/g dry | 6.22E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13967-70-9 | Cesium-134 | <4.31E-1 | pCi/g dry | 4.31E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 10045-97-3 | Cesium-137 | <3.87E-1 | pCi/g dry | 3.87E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13982-30-4 | Cerium-139 | <4.14E-1 | pCi/g dry | 4.14E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14762-78-8 | Cerium-144 | <2.98E0 | pCi/g dry | 2.98E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14683-23-9 | Europium-152 | <1.50E0 | pCi/g dry | 1.50E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14276-65-4 | Gadolinium-153 | <1.10E0 | pCi/g dry | 1.10E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15585-10-1 | Europium-154 | <7.77E-1 | pCi/g dry | 7.77E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14391-16-3 | Europium-155 | <1.18E0 | pCi/g dry | 1.18E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13982-78-0 | Mercury-203 | <4.46E-1 | pCi/g dry | 4.46E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14913-50-9 | Thallium-208 | <4.34E-1 | pCi/g dry | 4.34E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14331-79-4 | Bismuth-210 | <6.89E-1 | pCi/g dry | 6.89E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14255-04-0 | Lead-210 | <5.19E1 | pCi/g dry | 5.19E1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Bismuth-211 | <8.11E0 | pCi/g dry | 8.11E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Lead-211 | <1.11E1 | pCi/g dry | 1.11E1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15092-94-1 | Lead-212 | <9.03E-1 | pCi/g dry | 9.03E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14733-03-0 | Bismuth-214 | <9.38E-1 | pCi/g dry | 9.38E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15067-28-4 | Lead-214 | <1.01E0 | pCi/g dry | 1.01E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14835-02-0 | Radon-219 | <3.44E0 | pCi/g dry | 3.44E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 22481-48-7 | Radon-220 | <3.41E2 | pCi/g dry | 3.41E2 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 28522-20-5 | Radon-221 | <1.62E0 | pCi/g dry | 1.62E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15756-98-6 | Francium-223 | <1.15E1 | pCi/g dry | 1.15E1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15623-45-7 | Radium-223 | <2.53E0 | pCi/g dry | 2.53E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13233-32-4 | Radium-224 | <9.92E0 | pCi/g dry | 9.92E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13982-63-3 | Radium-226 | <1.00E1 | pCi/g dry | 1.00E1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15623-47-9 | Thorium-227 | <3.48E0 | pCi/g dry | 3.48E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14331-83-0 | Actinium-228 | <1.54E0 | pCi/g dry | 1.54E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14274-82-9 | Thorium-228 | <1.27E2 | pCi/g dry | 1.27E2 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14269-63-7 | Thorium-230 | <1.37E2 | pCi/g dry | 1.37E2 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14331-85-2 | Protactinium-231 | <1.58E1 | pCi/g dry | 1.58E1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14932-40-2 | Thorium-231 | <7.72E1 | pCi/g dry | 7.72E1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 7440-29-1 | Thorium-232 | <3.40E2 | pCi/g dry | 3.40E2 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13981-14-1 | Protactinium-233 | <9.48E-1 | pCi/g dry | 9.48E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15100-28-4 | Protactinium-234 | <1.43E0 | pCi/g dry | 1.43E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Protactinium-234m | <4.19E1 | pCi/g dry | 4.19E1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15065-10-8 | Thorium-234 | <1.19E1 | pCi/g dry | 1.19E1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15117-96-1 | Uranium 235 | <3.08E0 | pCi/g dry | 3.08E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13994-20-2 | Neptunium-237 | <3.08E0 | pCi/g dry | 3.08E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13981-16-3 | Plutonium-238 | <4.48E3 | pCi/g dry | 4.48E3 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Uranium 238 | <6.44E0 | pCi/g dry | 6.44E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15117-48-3 | Plutonium-239 | <4.70E3 | pCi/g dry | 4.70E3 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14119-33-6 | Plutonium-240 | <4.49E3 | pCi/g dry | 4.49E3 | | 6/23/08 | 8F20002 | AGG-RRL-001 |

# GEA/Soil

| CAS # | Analyte | Results | Units | MDA | UNC | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ59B** | | **Lab ID:** | **0805020-15** | | | | |
| 14596-10-2 | Americium-241 | <1.74E0 | pCi/g dry | 1.74E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14993-75-0 | Americium-243 | <7.51E-1 | pCi/g dry | 7.51E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15757-87-6 | Curium-243 | <1.36E0 | pCi/g dry | 1.36E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15621-76-8 | Curium-245 | <1.12E0 | pCi/g dry | 1.12E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| **HEIS No.** | **B1VJ59A** | | **Lab ID:** | **0805020-16** | | | | |
| 13966-32-0 | Sodium-22 | <3.54E-1 | pCi/g dry | 3.54E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13966-00-2 | Potassium-40 | 2.07E1 | pCi/g dry | 3.64E0 | 1.36 | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14392-02-0 | Chromium-51 | <2.95E0 | pCi/g dry | 2.95E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13966-31-9 | Manganese-54 | <2.84E-1 | pCi/g dry | 2.84E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13981-50-5 | Cobalt-57 | <2.96E-1 | pCi/g dry | 2.96E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14596-12-4 | Iron-59 | <5.14E-1 | pCi/g dry | 5.14E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 10198-40-0 | Cobalt-60 | <3.38E-1 | pCi/g dry | 3.38E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13982-39-3 | Zinc-65 | <7.24E-1 | pCi/g dry | 7.24E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14265-71-5 | Selenium-75 | <4.76E-1 | pCi/g dry | 4.76E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 17056-36-9 | Rubidium-83 | <5.93E-1 | pCi/g dry | 5.93E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13967-73-2 | Strontium-85 | <3.86E-1 | pCi/g dry | 3.86E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14932-53-7 | Rubidium-86 | <3.26E0 | pCi/g dry | 3.26E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13982-36-0 | Yttrium-88 | <2.48E-1 | pCi/g dry | 2.48E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14681-63-1 | Niobium-94 | <2.78E-1 | pCi/g dry | 2.78E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13967-76-5 | Niobium-95 | <3.17E-1 | pCi/g dry | 3.17E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Niobium-95m | <1.37E0 | pCi/g dry | 1.37E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Technetium-95m | <4.74E-1 | pCi/g dry | 4.74E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13967-71-0 | Zirconium-95 | <5.04E-1 | pCi/g dry | 5.04E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Technetium-99m | <2.99E-1 | pCi/g dry | 2.99E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13968-53-1 | Ruthenium-103 | <3.26E-1 | pCi/g dry | 3.26E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13967-48-1 | Ruthenium-106 | <3.03E0 | pCi/g dry | 3.03E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14391-65-2 | Silver-108m | <2.98E-1 | pCi/g dry | 2.98E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14109-32-1 | Cadmium-109 | <7.86E0 | pCi/g dry | 7.86E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Silver-110 | <2.94E-1 | pCi/g dry | 2.94E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14391-76-5 | Silver-110m | <2.94E-1 | pCi/g dry | 2.94E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13966-06-8 | Tin-113 | <4.46E-1 | pCi/g dry | 4.46E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14683-10-4 | Antimony-124 | <3.02E-1 | pCi/g dry | 3.02E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14234-35-6 | Antimony-125 | <9.43E-1 | pCi/g dry | 9.43E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15756-32-8 | Antimony-126 | <3.12E-1 | pCi/g dry | 3.12E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15832-50-5 | Tin-126 | <6.19E-1 | pCi/g dry | 6.19E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 10043-66-0 | Iodine-131 | <3.54E-1 | pCi/g dry | 3.54E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13981-41-4 | Barium-133 | <5.47E-1 | pCi/g dry | 5.47E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13967-70-9 | Cesium-134 | <3.37E-1 | pCi/g dry | 3.37E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 10045-97-3 | Cesium-137 | <3.28E-1 | pCi/g dry | 3.28E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13982-30-4 | Cerium-139 | <3.52E-1 | pCi/g dry | 3.52E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14762-78-8 | Cerium-144 | <2.38E0 | pCi/g dry | 2.38E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14683-23-9 | Europium-152 | <1.13E0 | pCi/g dry | 1.13E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14276-65-4 | Gadolinium-153 | <9.06E-1 | pCi/g dry | 9.06E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15585-10-1 | Europium-154 | <6.19E-1 | pCi/g dry | 6.19E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14391-16-3 | Europium-155 | <8.75E-1 | pCi/g dry | 8.75E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13982-78-0 | Mercury-203 | <3.75E-1 | pCi/g dry | 3.75E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14913-50-9 | Thallium-208 | <2.87E-1 | pCi/g dry | 2.87E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14331-79-4 | Bismuth-210 | <5.82E-1 | pCi/g dry | 5.82E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |

# GEA/Soil

| CAS # | Analyte | Results | Units | MDA | UNC | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ59A** | | **Lab ID:** | **0805020-16** | | | | |
| 14255-04-0 | Lead-210 | <1.12E2 | pCi/g dry | 1.12E2 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Bismuth-211 | <7.15E0 | pCi/g dry | 7.15E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Lead-211 | <9.55E0 | pCi/g dry | 9.55E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15092-94-1 | Lead-212 | <7.09E-1 | pCi/g dry | 7.09E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14733-03-0 | Bismuth-214 | <7.75E-1 | pCi/g dry | 7.75E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15067-28-4 | Lead-214 | <8.85E-1 | pCi/g dry | 8.85E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14835-02-0 | Radon-219 | <2.95E0 | pCi/g dry | 2.95E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 22481-48-7 | Radon-220 | <2.66E2 | pCi/g dry | 2.66E2 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 28522-20-5 | Radon-221 | <1.40E0 | pCi/g dry | 1.40E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15756-98-6 | Francium-223 | <9.96E0 | pCi/g dry | 9.96E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15623-45-7 | Radium-223 | <2.13E0 | pCi/g dry | 2.13E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13233-32-4 | Radium-224 | <8.71E0 | pCi/g dry | 8.71E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13982-63-3 | Radium-226 | <8.70E0 | pCi/g dry | 8.70E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15623-47-9 | Thorium-227 | <3.06E0 | pCi/g dry | 3.06E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14331-83-0 | Actinium-228 | <1.39E0 | pCi/g dry | 1.39E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14274-82-9 | Thorium-228 | <1.09E2 | pCi/g dry | 1.09E2 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14269-63-7 | Thorium-230 | <1.12E2 | pCi/g dry | 1.12E2 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14331-85-2 | Protactinium-231 | <1.17E1 | pCi/g dry | 1.17E1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14932-40-2 | Thorium-231 | <6.20E1 | pCi/g dry | 6.20E1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 7440-29-1 | Thorium-232 | <3.69E2 | pCi/g dry | 3.69E2 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13981-14-1 | Protactinium-233 | <7.51E-1 | pCi/g dry | 7.51E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15100-28-4 | Protactinium-234 | <1.16E0 | pCi/g dry | 1.16E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Protactinium-234m | <3.90E1 | pCi/g dry | 3.90E1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15065-10-8 | Thorium-234 | <1.02E1 | pCi/g dry | 1.02E1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15117-96-1 | Uranium 235 | <2.50E0 | pCi/g dry | 2.50E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13994-20-2 | Neptunium-237 | <2.28E0 | pCi/g dry | 2.28E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13981-16-3 | Plutonium-238 | <3.61E3 | pCi/g dry | 3.61E3 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Uranium 238 | <5.30E0 | pCi/g dry | 5.30E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15117-48-3 | Plutonium-239 | <4.06E3 | pCi/g dry | 4.06E3 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14119-33-6 | Plutonium-240 | <3.56E3 | pCi/g dry | 3.56E3 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14596-10-2 | Americium-241 | <1.80E0 | pCi/g dry | 1.80E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14993-75-0 | Americium-243 | <6.18E-1 | pCi/g dry | 6.18E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15757-87-6 | Curium-243 | <1.08E0 | pCi/g dry | 1.08E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15621-76-8 | Curium-245 | <8.91E-1 | pCi/g dry | 8.91E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| **HEIS No.** | **B1VJ60C** | | **Lab ID:** | **0805020-18** | | | | |
| 13966-32-0 | Sodium-22 | <3.35E-1 | pCi/g dry | 3.35E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13966-00-2 | Potassium-40 | 2.25E1 | pCi/g dry | 2.64E0 | 1.19 | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14392-02-0 | Chromium-51 | <2.74E0 | pCi/g dry | 2.74E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13966-31-9 | Manganese-54 | <3.05E-1 | pCi/g dry | 3.05E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13981-50-5 | Cobalt-57 | <2.98E-1 | pCi/g dry | 2.98E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14596-12-4 | Iron-59 | <5.25E-1 | pCi/g dry | 5.25E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 10198-40-0 | Cobalt-60 | <3.15E-1 | pCi/g dry | 3.15E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13982-39-3 | Zinc-65 | <7.08E-1 | pCi/g dry | 7.08E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14265-71-5 | Selenium-75 | <4.68E-1 | pCi/g dry | 4.68E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 17056-36-9 | Rubidium-83 | <7.16E-1 | pCi/g dry | 7.16E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13967-73-2 | Strontium-85 | <3.34E-1 | pCi/g dry | 3.34E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14932-53-7 | Rubidium-86 | <3.60E0 | pCi/g dry | 3.60E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13982-36-0 | Yttrium-88 | <2.58E-1 | pCi/g dry | 2.58E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |

# GEA/Soil

| CAS # | Analyte | Results | Units | MDA | UNC | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ60C** | | **Lab ID:** | **0805020-18** | | | | |
| 14681-63-1 | Niobium-94 | <2.89E-1 | pCi/g dry | 2.89E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13967-76-5 | Niobium-95 | <2.80E-1 | pCi/g dry | 2.80E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Niobium-95m | <1.32E0 | pCi/g dry | 1.32E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Technetium-95m | <4.33E-1 | pCi/g dry | 4.33E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13967-71-0 | Zirconium-95 | <5.09E-1 | pCi/g dry | 5.09E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Technetium-99m | <3.01E-1 | pCi/g dry | 3.01E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13968-53-1 | Ruthenium-103 | <3.42E-1 | pCi/g dry | 3.42E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13967-48-1 | Ruthenium-106 | <3.28E0 | pCi/g dry | 3.28E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14391-65-2 | Silver-108m | <2.80E-1 | pCi/g dry | 2.80E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14109-32-1 | Cadmium-109 | <8.52E0 | pCi/g dry | 8.52E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Silver-110 | <3.03E-1 | pCi/g dry | 3.03E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14391-76-5 | Silver-110m | <3.04E-1 | pCi/g dry | 3.04E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13966-06-8 | Tin-113 | <3.90E-1 | pCi/g dry | 3.90E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14683-10-4 | Antimony-124 | <3.49E-1 | pCi/g dry | 3.49E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14234-35-6 | Antimony-125 | <8.85E-1 | pCi/g dry | 8.85E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15756-32-8 | Antimony-126 | <2.92E-1 | pCi/g dry | 2.92E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15832-50-5 | Tin-126 | <6.95E-1 | pCi/g dry | 6.95E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 10043-66-0 | Iodine-131 | <3.51E-1 | pCi/g dry | 3.51E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13981-41-4 | Barium-133 | <4.92E-1 | pCi/g dry | 4.92E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13967-70-9 | Cesium-134 | <3.32E-1 | pCi/g dry | 3.32E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 10045-97-3 | Cesium-137 | <3.44E-1 | pCi/g dry | 3.44E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13982-30-4 | Cerium-139 | <3.33E-1 | pCi/g dry | 3.33E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14762-78-8 | Cerium-144 | <2.46E0 | pCi/g dry | 2.46E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14683-23-9 | Europium-152 | <1.17E0 | pCi/g dry | 1.17E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14276-65-4 | Gadolinium-153 | <9.09E-1 | pCi/g dry | 9.09E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15585-10-1 | Europium-154 | <6.30E-1 | pCi/g dry | 6.30E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14391-16-3 | Europium-155 | <9.89E-1 | pCi/g dry | 9.89E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13982-78-0 | Mercury-203 | <3.58E-1 | pCi/g dry | 3.58E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14913-50-9 | Thallium-208 | <3.59E-1 | pCi/g dry | 3.59E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14331-79-4 | Bismuth-210 | <5.56E-1 | pCi/g dry | 5.56E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14255-04-0 | Lead-210 | <4.02E1 | pCi/g dry | 4.02E1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Bismuth-211 | <6.29E0 | pCi/g dry | 6.29E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Lead-211 | <8.59E0 | pCi/g dry | 8.59E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15092-94-1 | Lead-212 | <7.65E-1 | pCi/g dry | 7.65E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14733-03-0 | Bismuth-214 | <7.38E-1 | pCi/g dry | 7.38E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15067-28-4 | Lead-214 | <8.07E-1 | pCi/g dry | 8.07E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14835-02-0 | Radon-219 | <2.81E0 | pCi/g dry | 2.81E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 22481-48-7 | Radon-220 | <2.79E2 | pCi/g dry | 2.79E2 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 28522-20-5 | Radon-221 | <1.29E0 | pCi/g dry | 1.29E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15756-98-6 | Francium-223 | <9.69E0 | pCi/g dry | 9.69E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15623-45-7 | Radium-223 | <2.05E0 | pCi/g dry | 2.05E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13233-32-4 | Radium-224 | <8.31E0 | pCi/g dry | 8.31E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13982-63-3 | Radium-226 | <7.98E0 | pCi/g dry | 7.98E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15623-47-9 | Thorium-227 | <2.94E0 | pCi/g dry | 2.94E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14331-83-0 | Actinium-228 | <1.36E0 | pCi/g dry | 1.36E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14274-82-9 | Thorium-228 | <1.04E2 | pCi/g dry | 1.04E2 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14269-63-7 | Thorium-230 | <1.12E2 | pCi/g dry | 1.12E2 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14331-85-2 | Protactinium-231 | <1.26E1 | pCi/g dry | 1.26E1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14932-40-2 | Thorium-231 | <6.45E1 | pCi/g dry | 6.45E1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |

# GEA/Soil

| CAS # | Analyte | Results | Units | MDA | UNC | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ60C** | | **Lab ID:** | **0805020-18** | | | | |
| 7440-29-1 | Thorium-232 | <2.75E2 | pCi/g dry | 2.75E2 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13981-14-1 | Protactinium-233 | <7.45E-1 | pCi/g dry | 7.45E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15100-28-4 | Protactinium-234 | <1.19E0 | pCi/g dry | 1.19E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Protactinium-234m | <3.66E1 | pCi/g dry | 3.66E1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15065-10-8 | Thorium-234 | <9.72E0 | pCi/g dry | 9.72E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15117-96-1 | Uranium 235 | <2.53E0 | pCi/g dry | 2.53E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13994-20-2 | Neptunium-237 | <2.57E0 | pCi/g dry | 2.57E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13981-16-3 | Plutonium-238 | <3.74E3 | pCi/g dry | 3.74E3 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Uranium 238 | <5.38E0 | pCi/g dry | 5.38E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15117-48-3 | Plutonium-239 | <3.71E3 | pCi/g dry | 3.71E3 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14119-33-6 | Plutonium-240 | <3.70E3 | pCi/g dry | 3.70E3 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14596-10-2 | Americium-241 | <1.41E0 | pCi/g dry | 1.41E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14993-75-0 | Americium-243 | <6.22E-1 | pCi/g dry | 6.22E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15757-87-6 | Curium-243 | <1.13E0 | pCi/g dry | 1.13E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15621-76-8 | Curium-245 | <9.28E-1 | pCi/g dry | 9.28E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| **HEIS No.** | **B1VJ60B** | | **Lab ID:** | **0805020-19** | | | | |
| 13966-32-0 | Sodium-22 | <3.24E-1 | pCi/g dry | 3.24E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13966-00-2 | Potassium-40 | 2.17E1 | pCi/g dry | 2.91E0 | 1.29 | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14392-02-0 | Chromium-51 | <2.72E0 | pCi/g dry | 2.72E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13966-31-9 | Manganese-54 | <2.72E-1 | pCi/g dry | 2.72E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13981-50-5 | Cobalt-57 | <3.04E-1 | pCi/g dry | 3.04E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14596-12-4 | Iron-59 | <5.17E-1 | pCi/g dry | 5.17E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 10198-40-0 | Cobalt-60 | <2.97E-1 | pCi/g dry | 2.97E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13982-39-3 | Zinc-65 | <7.23E-1 | pCi/g dry | 7.23E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14265-71-5 | Selenium-75 | <4.71E-1 | pCi/g dry | 4.71E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 17056-36-9 | Rubidium-83 | <5.87E-1 | pCi/g dry | 5.87E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13967-73-2 | Strontium-85 | <3.88E-1 | pCi/g dry | 3.88E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14932-53-7 | Rubidium-86 | <3.64E0 | pCi/g dry | 3.64E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13982-36-0 | Yttrium-88 | <2.26E-1 | pCi/g dry | 2.26E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14681-63-1 | Niobium-94 | <2.86E-1 | pCi/g dry | 2.86E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13967-76-5 | Niobium-95 | <2.97E-1 | pCi/g dry | 2.97E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Niobium-95m | <1.36E0 | pCi/g dry | 1.36E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Technetium-95m | <4.45E-1 | pCi/g dry | 4.45E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13967-71-0 | Zirconium-95 | <5.26E-1 | pCi/g dry | 5.26E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Technetium-99m | <2.89E-1 | pCi/g dry | 2.89E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13968-53-1 | Ruthenium-103 | <2.78E-1 | pCi/g dry | 2.78E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13967-48-1 | Ruthenium-106 | <2.59E0 | pCi/g dry | 2.59E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14391-65-2 | Silver-108m | <2.97E-1 | pCi/g dry | 2.97E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14109-32-1 | Cadmium-109 | <8.10E0 | pCi/g dry | 8.10E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Silver-110 | <3.05E-1 | pCi/g dry | 3.05E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14391-76-5 | Silver-110m | <3.06E-1 | pCi/g dry | 3.06E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13966-06-8 | Tin-113 | <4.24E-1 | pCi/g dry | 4.24E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14683-10-4 | Antimony-124 | <2.91E-1 | pCi/g dry | 2.91E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14234-35-6 | Antimony-125 | <9.48E-1 | pCi/g dry | 9.48E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15756-32-8 | Antimony-126 | <2.82E-1 | pCi/g dry | 2.82E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15832-50-5 | Tin-126 | <6.33E-1 | pCi/g dry | 6.33E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 10043-66-0 | Iodine-131 | <3.45E-1 | pCi/g dry | 3.45E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13981-41-4 | Barium-133 | <5.54E-1 | pCi/g dry | 5.54E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |

# GEA/Soil

| CAS # | Analyte | Results | Units | MDA | UNC | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ60B** | | **Lab ID:** | **0805020-19** | | | | |
| 13967-70-9 | Cesium-134 | <3.51E-1 | pCi/g dry | 3.51E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 10045-97-3 | Cesium-137 | <3.23E-1 | pCi/g dry | 3.23E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13982-30-4 | Cerium-139 | <3.40E-1 | pCi/g dry | 3.40E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14762-78-8 | Cerium-144 | <2.35E0 | pCi/g dry | 2.35E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14683-23-9 | Europium-152 | <1.12E0 | pCi/g dry | 1.12E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14276-65-4 | Gadolinium-153 | <8.91E-1 | pCi/g dry | 8.91E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15585-10-1 | Europium-154 | <6.33E-1 | pCi/g dry | 6.33E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14391-16-3 | Europium-155 | <8.88E-1 | pCi/g dry | 8.88E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13982-78-0 | Mercury-203 | <3.48E-1 | pCi/g dry | 3.48E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14913-50-9 | Thallium-208 | <3.08E-1 | pCi/g dry | 3.08E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14331-79-4 | Bismuth-210 | <5.56E-1 | pCi/g dry | 5.56E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14255-04-0 | Lead-210 | <1.10E2 | pCi/g dry | 1.10E2 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Bismuth-211 | <6.80E0 | pCi/g dry | 6.80E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Lead-211 | <9.30E0 | pCi/g dry | 9.30E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15092-94-1 | Lead-212 | 5.65E-1 | pCi/g dry | 5.32E-1 | 0.123 | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14733-03-0 | Bismuth-214 | <7.45E-1 | pCi/g dry | 7.45E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15067-28-4 | Lead-214 | <8.83E-1 | pCi/g dry | 8.83E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14835-02-0 | Radon-219 | <2.78E0 | pCi/g dry | 2.78E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 22481-48-7 | Radon-220 | <2.53E2 | pCi/g dry | 2.53E2 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 28522-20-5 | Radon-221 | <1.34E0 | pCi/g dry | 1.34E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15756-98-6 | Francium-223 | <9.80E0 | pCi/g dry | 9.80E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15623-45-7 | Radium-223 | <2.03E0 | pCi/g dry | 2.03E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13233-32-4 | Radium-224 | <8.65E0 | pCi/g dry | 8.65E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13982-63-3 | Radium-226 | <8.35E0 | pCi/g dry | 8.35E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15623-47-9 | Thorium-227 | <3.04E0 | pCi/g dry | 3.04E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14331-83-0 | Actinium-228 | <1.36E0 | pCi/g dry | 1.36E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14274-82-9 | Thorium-228 | <1.08E2 | pCi/g dry | 1.08E2 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14269-63-7 | Thorium-230 | <1.16E2 | pCi/g dry | 1.16E2 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14331-85-2 | Protactinium-231 | <1.22E1 | pCi/g dry | 1.22E1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14932-40-2 | Thorium-231 | <6.28E1 | pCi/g dry | 6.28E1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 7440-29-1 | Thorium-232 | <3.64E2 | pCi/g dry | 3.64E2 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13981-14-1 | Protactinium-233 | <7.74E-1 | pCi/g dry | 7.74E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15100-28-4 | Protactinium-234 | <1.14E0 | pCi/g dry | 1.14E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Protactinium-234m | <3.66E1 | pCi/g dry | 3.66E1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15065-10-8 | Thorium-234 | <1.01E1 | pCi/g dry | 1.01E1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15117-96-1 | Uranium 235 | <2.48E0 | pCi/g dry | 2.48E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13994-20-2 | Neptunium-237 | <2.31E0 | pCi/g dry | 2.31E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13981-16-3 | Plutonium-238 | <3.63E3 | pCi/g dry | 3.63E3 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Uranium 238 | <5.22E0 | pCi/g dry | 5.22E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15117-48-3 | Plutonium-239 | <4.15E3 | pCi/g dry | 4.15E3 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14119-33-6 | Plutonium-240 | <3.58E3 | pCi/g dry | 3.58E3 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14596-10-2 | Americium-241 | <1.78E0 | pCi/g dry | 1.78E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14993-75-0 | Americium-243 | <6.24E-1 | pCi/g dry | 6.24E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15757-87-6 | Curium-243 | <1.09E0 | pCi/g dry | 1.09E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15621-76-8 | Curium-245 | <8.96E-1 | pCi/g dry | 8.96E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| **HEIS No.** | **B1VJ60A** | | **Lab ID:** | **0805020-20** | | | | |
| 13966-32-0 | Sodium-22 | <4.13E-1 | pCi/g dry | 4.13E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13966-00-2 | Potassium-40 | 2.22E1 | pCi/g dry | 3.91E0 | 1.43 | 6/23/08 | 8F20002 | AGG-RRL-001 |

# GEA/Soil

| CAS # | Analyte | Results | Units | MDA | UNC | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ60A** | | **Lab ID:** | **0805020-20** | | | | |
| 14392-02-0 | Chromium-51 | <3.21E0 | pCi/g dry | 3.21E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13966-31-9 | Manganese-54 | <3.59E-1 | pCi/g dry | 3.59E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13981-50-5 | Cobalt-57 | <3.55E-1 | pCi/g dry | 3.55E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14596-12-4 | Iron-59 | <6.30E-1 | pCi/g dry | 6.30E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 10198-40-0 | Cobalt-60 | <3.70E-1 | pCi/g dry | 3.70E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13982-39-3 | Zinc-65 | <8.07E-1 | pCi/g dry | 8.07E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14265-71-5 | Selenium-75 | <5.66E-1 | pCi/g dry | 5.66E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 17056-36-9 | Rubidium-83 | <8.58E-1 | pCi/g dry | 8.58E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13967-73-2 | Strontium-85 | <4.02E-1 | pCi/g dry | 4.02E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14932-53-7 | Rubidium-86 | <4.49E0 | pCi/g dry | 4.49E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13982-36-0 | Yttrium-88 | <2.82E-1 | pCi/g dry | 2.82E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14681-63-1 | Niobium-94 | <3.46E-1 | pCi/g dry | 3.46E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13967-76-5 | Niobium-95 | <3.50E-1 | pCi/g dry | 3.50E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Niobium-95m | <1.57E0 | pCi/g dry | 1.57E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Technetium-95m | <5.35E-1 | pCi/g dry | 5.35E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13967-71-0 | Zirconium-95 | <6.27E-1 | pCi/g dry | 6.27E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Technetium-99m | <3.60E-1 | pCi/g dry | 3.60E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13968-53-1 | Ruthenium-103 | <3.98E-1 | pCi/g dry | 3.98E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13967-48-1 | Ruthenium-106 | <3.96E0 | pCi/g dry | 3.96E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14391-65-2 | Silver-108m | <3.64E-1 | pCi/g dry | 3.64E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14109-32-1 | Cadmium-109 | <9.68E0 | pCi/g dry | 9.68E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Silver-110 | <3.58E-1 | pCi/g dry | 3.58E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14391-76-5 | Silver-110m | <3.59E-1 | pCi/g dry | 3.59E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13966-06-8 | Tin-113 | <4.83E-1 | pCi/g dry | 4.83E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14683-10-4 | Antimony-124 | <4.13E-1 | pCi/g dry | 4.13E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14234-35-6 | Antimony-125 | <1.10E0 | pCi/g dry | 1.10E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15756-32-8 | Antimony-126 | <3.44E-1 | pCi/g dry | 3.44E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15832-50-5 | Tin-126 | <7.89E-1 | pCi/g dry | 7.89E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 10043-66-0 | Iodine-131 | <4.33E-1 | pCi/g dry | 4.33E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13981-41-4 | Barium-133 | <6.00E-1 | pCi/g dry | 6.00E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13967-70-9 | Cesium-134 | <4.12E-1 | pCi/g dry | 4.12E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 10045-97-3 | Cesium-137 | <4.04E-1 | pCi/g dry | 4.04E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13982-30-4 | Cerium-139 | <4.07E-1 | pCi/g dry | 4.07E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14762-78-8 | Cerium-144 | <2.86E0 | pCi/g dry | 2.86E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14683-23-9 | Europium-152 | <1.38E0 | pCi/g dry | 1.38E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14276-65-4 | Gadolinium-153 | <1.08E0 | pCi/g dry | 1.08E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15585-10-1 | Europium-154 | <7.53E-1 | pCi/g dry | 7.53E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14391-16-3 | Europium-155 | <1.12E0 | pCi/g dry | 1.12E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13982-78-0 | Mercury-203 | <4.37E-1 | pCi/g dry | 4.37E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14913-50-9 | Thallium-208 | <4.44E-1 | pCi/g dry | 4.44E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14331-79-4 | Bismuth-210 | <6.83E-1 | pCi/g dry | 6.83E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14255-04-0 | Lead-210 | <5.02E1 | pCi/g dry | 5.02E1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Bismuth-211 | <7.78E0 | pCi/g dry | 7.78E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Lead-211 | <1.06E1 | pCi/g dry | 1.06E1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15092-94-1 | Lead-212 | <9.09E-1 | pCi/g dry | 9.09E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14733-03-0 | Bismuth-214 | <8.89E-1 | pCi/g dry | 8.89E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15067-28-4 | Lead-214 | <9.81E-1 | pCi/g dry | 9.81E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14835-02-0 | Radon-219 | <3.40E0 | pCi/g dry | 3.40E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 22481-48-7 | Radon-220 | <3.22E2 | pCi/g dry | 3.22E2 | | 6/23/08 | 8F20002 | AGG-RRL-001 |

# GEA/Soil

| CAS # | Analyte | Results | Units | MDA | UNC | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ60A** | | **Lab ID:** | **0805020-20** | | | | |
| 28522-20-5 | Radon-221 | <1.60E0 | pCi/g dry | 1.60E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15756-98-6 | Francium-223 | <1.15E1 | pCi/g dry | 1.15E1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15623-45-7 | Radium-223 | <2.50E0 | pCi/g dry | 2.50E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13233-32-4 | Radium-224 | <9.86E0 | pCi/g dry | 9.86E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13982-63-3 | Radium-226 | <9.85E0 | pCi/g dry | 9.85E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15623-47-9 | Thorium-227 | <3.51E0 | pCi/g dry | 3.51E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14331-83-0 | Actinium-228 | <1.56E0 | pCi/g dry | 1.56E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14274-82-9 | Thorium-228 | <1.27E2 | pCi/g dry | 1.27E2 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14269-63-7 | Thorium-230 | <1.34E2 | pCi/g dry | 1.34E2 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14331-85-2 | Protactinium-231 | <1.51E1 | pCi/g dry | 1.51E1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14932-40-2 | Thorium-231 | <7.76E1 | pCi/g dry | 7.76E1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 7440-29-1 | Thorium-232 | <3.34E2 | pCi/g dry | 3.34E2 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13981-14-1 | Protactinium-233 | <9.04E-1 | pCi/g dry | 9.04E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15100-28-4 | Protactinium-234 | <1.40E0 | pCi/g dry | 1.40E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Protactinium-234m | <4.16E1 | pCi/g dry | 4.16E1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15065-10-8 | Thorium-234 | <1.17E1 | pCi/g dry | 1.17E1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15117-96-1 | Uranium 235 | <3.07E0 | pCi/g dry | 3.07E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13994-20-2 | Neptunium-237 | <2.91E0 | pCi/g dry | 2.91E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 13981-16-3 | Plutonium-238 | <4.42E3 | pCi/g dry | 4.42E3 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| | Uranium 238 | <6.21E0 | pCi/g dry | 6.21E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15117-48-3 | Plutonium-239 | <4.62E3 | pCi/g dry | 4.62E3 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14119-33-6 | Plutonium-240 | <4.52E3 | pCi/g dry | 4.52E3 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14596-10-2 | Americium-241 | <1.71E0 | pCi/g dry | 1.71E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 14993-75-0 | Americium-243 | <7.25E-1 | pCi/g dry | 7.25E-1 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15757-87-6 | Curium-243 | <1.37E0 | pCi/g dry | 1.37E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| 15621-76-8 | Curium-245 | <1.13E0 | pCi/g dry | 1.13E0 | | 6/23/08 | 8F20002 | AGG-RRL-001 |
| **HEIS No.** | **B1VJ61C** | | **Lab ID:** | **0805020-22** | | | | |
| 13966-32-0 | Sodium-22 | <3.01E-1 | pCi/g dry | 3.01E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13966-00-2 | Potassium-40 | 1.89E1 | pCi/g dry | 3.70E0 | 1.3 | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14392-02-0 | Chromium-51 | <2.62E0 | pCi/g dry | 2.62E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13966-31-9 | Manganese-54 | <2.65E-1 | pCi/g dry | 2.65E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13981-50-5 | Cobalt-57 | <2.80E-1 | pCi/g dry | 2.80E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14596-12-4 | Iron-59 | <5.43E-1 | pCi/g dry | 5.43E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 10198-40-0 | Cobalt-60 | <3.05E-1 | pCi/g dry | 3.05E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13982-39-3 | Zinc-65 | <6.46E-1 | pCi/g dry | 6.46E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14265-71-5 | Selenium-75 | <4.47E-1 | pCi/g dry | 4.47E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 17056-36-9 | Rubidium-83 | <5.33E-1 | pCi/g dry | 5.33E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13967-73-2 | Strontium-85 | <3.39E-1 | pCi/g dry | 3.39E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14932-53-7 | Rubidium-86 | <3.53E0 | pCi/g dry | 3.53E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13982-36-0 | Yttrium-88 | <2.34E-1 | pCi/g dry | 2.34E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14681-63-1 | Niobium-94 | <2.55E-1 | pCi/g dry | 2.55E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13967-76-5 | Niobium-95 | <2.84E-1 | pCi/g dry | 2.84E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| | Niobium-95m | <1.26E0 | pCi/g dry | 1.26E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| | Technetium-95m | <4.38E-1 | pCi/g dry | 4.38E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13967-71-0 | Zirconium-95 | <4.70E-1 | pCi/g dry | 4.70E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| | Technetium-99m | <2.67E-1 | pCi/g dry | 2.67E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13968-53-1 | Ruthenium-103 | <2.89E-1 | pCi/g dry | 2.89E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13967-48-1 | Ruthenium-106 | <2.69E0 | pCi/g dry | 2.69E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |

# GEA/Soil

| CAS # | Analyte | Results | Units | MDA | UNC | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ61C** | | **Lab ID:** | **0805020-22** | | | | |
| 14391-65-2 | Silver-108m | <2.81E-1 | pCi/g dry | 2.81E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14109-32-1 | Cadmium-109 | <7.30E0 | pCi/g dry | 7.30E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| | Silver-110 | <2.80E-1 | pCi/g dry | 2.80E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14391-76-5 | Silver-110m | <2.81E-1 | pCi/g dry | 2.81E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13966-06-8 | Tin-113 | <3.92E-1 | pCi/g dry | 3.92E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14683-10-4 | Antimony-124 | <2.75E-1 | pCi/g dry | 2.75E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14234-35-6 | Antimony-125 | <9.07E-1 | pCi/g dry | 9.07E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15756-32-8 | Antimony-126 | <2.56E-1 | pCi/g dry | 2.56E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15832-50-5 | Tin-126 | <5.77E-1 | pCi/g dry | 5.77E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 10043-66-0 | Iodine-131 | <3.14E-1 | pCi/g dry | 3.14E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13981-41-4 | Barium-133 | <5.25E-1 | pCi/g dry | 5.25E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13967-70-9 | Cesium-134 | <3.24E-1 | pCi/g dry | 3.24E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 10045-97-3 | Cesium-137 | <3.02E-1 | pCi/g dry | 3.02E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13982-30-4 | Cerium-139 | <3.29E-1 | pCi/g dry | 3.29E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14762-78-8 | Cerium-144 | <2.20E0 | pCi/g dry | 2.20E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14683-23-9 | Europium-152 | <1.03E0 | pCi/g dry | 1.03E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14276-65-4 | Gadolinium-153 | <8.12E-1 | pCi/g dry | 8.12E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15585-10-1 | Europium-154 | <5.92E-1 | pCi/g dry | 5.92E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14391-16-3 | Europium-155 | <8.12E-1 | pCi/g dry | 8.12E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13982-78-0 | Mercury-203 | <3.35E-1 | pCi/g dry | 3.35E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14913-50-9 | Thallium-208 | <3.48E-1 | pCi/g dry | 3.48E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14331-79-4 | Bismuth-210 | <5.40E-1 | pCi/g dry | 5.40E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14255-04-0 | Lead-210 | <1.04E2 | pCi/g dry | 1.04E2 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| | Bismuth-211 | <6.22E0 | pCi/g dry | 6.22E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| | Lead-211 | <8.50E0 | pCi/g dry | 8.50E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15092-94-1 | Lead-212 | <6.22E-1 | pCi/g dry | 6.22E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14733-03-0 | Bismuth-214 | <7.00E-1 | pCi/g dry | 7.00E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15067-28-4 | Lead-214 | <8.47E-1 | pCi/g dry | 8.47E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14835-02-0 | Radon-219 | <2.74E0 | pCi/g dry | 2.74E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 22481-48-7 | Radon-220 | <2.41E2 | pCi/g dry | 2.41E2 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 28522-20-5 | Radon-221 | <1.25E0 | pCi/g dry | 1.25E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15756-98-6 | Francium-223 | <9.12E0 | pCi/g dry | 9.12E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15623-45-7 | Radium-223 | <1.99E0 | pCi/g dry | 1.99E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13233-32-4 | Radium-224 | <8.15E0 | pCi/g dry | 8.15E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13982-63-3 | Radium-226 | <7.77E0 | pCi/g dry | 7.77E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15623-47-9 | Thorium-227 | <2.81E0 | pCi/g dry | 2.81E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14331-83-0 | Actinium-228 | <1.21E0 | pCi/g dry | 1.21E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14274-82-9 | Thorium-228 | <9.72E1 | pCi/g dry | 9.72E1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14269-63-7 | Thorium-230 | <1.04E2 | pCi/g dry | 1.04E2 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14331-85-2 | Protactinium-231 | <1.12E1 | pCi/g dry | 1.12E1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14932-40-2 | Thorium-231 | <5.71E1 | pCi/g dry | 5.71E1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 7440-29-1 | Thorium-232 | <3.48E2 | pCi/g dry | 3.48E2 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13981-14-1 | Protactinium-233 | <7.02E-1 | pCi/g dry | 7.02E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15100-28-4 | Protactinium-234 | <1.01E0 | pCi/g dry | 1.01E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| | Protactinium-234m | <3.65E1 | pCi/g dry | 3.65E1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15065-10-8 | Thorium-234 | <9.51E0 | pCi/g dry | 9.51E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15117-96-1 | Uranium 235 | <2.31E0 | pCi/g dry | 2.31E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13994-20-2 | Neptunium-237 | <2.11E0 | pCi/g dry | 2.11E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13981-16-3 | Plutonium-238 | <3.21E3 | pCi/g dry | 3.21E3 | | 6/24/08 | 8F20002 | AGG-RRL-001 |

# GEA/Soil

| CAS # | Analyte | Results | Units | MDA | UNC | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ61C** | | **Lab ID:** | **0805020-22** | | | | |
| | Uranium 238 | <4.93E0 | pCi/g dry | 4.93E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15117-48-3 | Plutonium-239 | <3.88E3 | pCi/g dry | 3.88E3 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14119-33-6 | Plutonium-240 | <3.31E3 | pCi/g dry | 3.31E3 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14596-10-2 | Americium-241 | <1.70E0 | pCi/g dry | 1.70E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14993-75-0 | Americium-243 | <5.68E-1 | pCi/g dry | 5.68E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15757-87-6 | Curium-243 | <1.01E0 | pCi/g dry | 1.01E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15621-76-8 | Curium-245 | <8.28E-1 | pCi/g dry | 8.28E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| **HEIS No.** | **B1VJ61B** | | **Lab ID:** | **0805020-23** | | | | |
| 13966-32-0 | Sodium-22 | <3.29E-1 | pCi/g dry | 3.29E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13966-00-2 | Potassium-40 | 2.16E1 | pCi/g dry | 2.22E0 | 1.18 | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14392-02-0 | Chromium-51 | <2.95E0 | pCi/g dry | 2.95E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13966-31-9 | Manganese-54 | <3.42E-1 | pCi/g dry | 3.42E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13981-50-5 | Cobalt-57 | <3.07E-1 | pCi/g dry | 3.07E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14596-12-4 | Iron-59 | <5.89E-1 | pCi/g dry | 5.89E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 10198-40-0 | Cobalt-60 | <2.99E-1 | pCi/g dry | 2.99E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13982-39-3 | Zinc-65 | <7.55E-1 | pCi/g dry | 7.55E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14265-71-5 | Selenium-75 | <5.00E-1 | pCi/g dry | 5.00E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 17056-36-9 | Rubidium-83 | <7.39E-1 | pCi/g dry | 7.39E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13967-73-2 | Strontium-85 | <3.48E-1 | pCi/g dry | 3.48E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14932-53-7 | Rubidium-86 | <3.78E0 | pCi/g dry | 3.78E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13982-36-0 | Yttrium-88 | <2.48E-1 | pCi/g dry | 2.48E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14681-63-1 | Niobium-94 | <3.01E-1 | pCi/g dry | 3.01E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13967-76-5 | Niobium-95 | <2.95E-1 | pCi/g dry | 2.95E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| | Niobium-95m | <1.32E0 | pCi/g dry | 1.32E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| | Technetium-95m | <4.75E-1 | pCi/g dry | 4.75E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13967-71-0 | Zirconium-95 | <5.22E-1 | pCi/g dry | 5.22E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| | Technetium-99m | <3.12E-1 | pCi/g dry | 3.12E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13968-53-1 | Ruthenium-103 | <3.34E-1 | pCi/g dry | 3.34E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13967-48-1 | Ruthenium-106 | <3.53E0 | pCi/g dry | 3.53E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14391-65-2 | Silver-108m | <3.07E-1 | pCi/g dry | 3.07E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14109-32-1 | Cadmium-109 | <8.78E0 | pCi/g dry | 8.78E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| | Silver-110 | <3.21E-1 | pCi/g dry | 3.21E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14391-76-5 | Silver-110m | <3.22E-1 | pCi/g dry | 3.22E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13966-06-8 | Tin-113 | <4.39E-1 | pCi/g dry | 4.39E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14683-10-4 | Antimony-124 | <3.87E-1 | pCi/g dry | 3.87E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14234-35-6 | Antimony-125 | <9.48E-1 | pCi/g dry | 9.48E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15756-32-8 | Antimony-126 | <3.08E-1 | pCi/g dry | 3.08E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15832-50-5 | Tin-126 | <7.17E-1 | pCi/g dry | 7.17E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 10043-66-0 | Iodine-131 | <3.73E-1 | pCi/g dry | 3.73E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13981-41-4 | Barium-133 | <5.36E-1 | pCi/g dry | 5.36E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13967-70-9 | Cesium-134 | <3.49E-1 | pCi/g dry | 3.49E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 10045-97-3 | Cesium-137 | <3.58E-1 | pCi/g dry | 3.58E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13982-30-4 | Cerium-139 | <3.45E-1 | pCi/g dry | 3.45E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14762-78-8 | Cerium-144 | <2.53E0 | pCi/g dry | 2.53E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14683-23-9 | Europium-152 | <1.28E0 | pCi/g dry | 1.28E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14276-65-4 | Gadolinium-153 | <9.67E-1 | pCi/g dry | 9.67E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15585-10-1 | Europium-154 | <6.53E-1 | pCi/g dry | 6.53E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14391-16-3 | Europium-155 | <1.01E0 | pCi/g dry | 1.01E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |

# GEA/Soil

| CAS # | Analyte | Results | Units | MDA | UNC | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ61B** | | **Lab ID:** | **0805020-23** | | | | |
| 13982-78-0 | Mercury-203 | <3.82E-1 | pCi/g dry | 3.82E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14913-50-9 | Thallium-208 | <3.87E-1 | pCi/g dry | 3.87E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14331-79-4 | Bismuth-210 | <5.96E-1 | pCi/g dry | 5.96E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14255-04-0 | Lead-210 | <4.28E1 | pCi/g dry | 4.28E1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| | Bismuth-211 | <7.03E0 | pCi/g dry | 7.03E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| | Lead-211 | <9.61E0 | pCi/g dry | 9.61E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15092-94-1 | Lead-212 | <7.67E-1 | pCi/g dry | 7.67E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14733-03-0 | Bismuth-214 | <8.19E-1 | pCi/g dry | 8.19E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15067-28-4 | Lead-214 | <8.82E-1 | pCi/g dry | 8.82E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14835-02-0 | Radon-219 | <2.99E0 | pCi/g dry | 2.99E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 22481-48-7 | Radon-220 | <2.89E2 | pCi/g dry | 2.89E2 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 28522-20-5 | Radon-221 | <1.42E0 | pCi/g dry | 1.42E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15756-98-6 | Francium-223 | <9.75E0 | pCi/g dry | 9.75E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15623-45-7 | Radium-223 | <2.19E0 | pCi/g dry | 2.19E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13233-32-4 | Radium-224 | <8.27E0 | pCi/g dry | 8.27E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13982-63-3 | Radium-226 | <8.77E0 | pCi/g dry | 8.77E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15623-47-9 | Thorium-227 | <2.96E0 | pCi/g dry | 2.96E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14331-83-0 | Actinium-228 | <1.39E0 | pCi/g dry | 1.39E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14274-82-9 | Thorium-228 | <1.12E2 | pCi/g dry | 1.12E2 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14269-63-7 | Thorium-230 | <1.16E2 | pCi/g dry | 1.16E2 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14331-85-2 | Protactinium-231 | <1.31E1 | pCi/g dry | 1.31E1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14932-40-2 | Thorium-231 | <6.85E1 | pCi/g dry | 6.85E1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 7440-29-1 | Thorium-232 | <2.92E2 | pCi/g dry | 2.92E2 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13981-14-1 | Protactinium-233 | <8.04E-1 | pCi/g dry | 8.04E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15100-28-4 | Protactinium-234 | <1.26E0 | pCi/g dry | 1.26E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| | Protactinium-234m | <3.82E1 | pCi/g dry | 3.82E1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15065-10-8 | Thorium-234 | <1.02E1 | pCi/g dry | 1.02E1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15117-96-1 | Uranium 235 | <2.62E0 | pCi/g dry | 2.62E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13994-20-2 | Neptunium-237 | <2.64E0 | pCi/g dry | 2.64E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13981-16-3 | Plutonium-238 | <3.96E3 | pCi/g dry | 3.96E3 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| | Uranium 238 | <5.64E0 | pCi/g dry | 5.64E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15117-48-3 | Plutonium-239 | <4.04E3 | pCi/g dry | 4.04E3 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14119-33-6 | Plutonium-240 | <3.94E3 | pCi/g dry | 3.94E3 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14596-10-2 | Americium-241 | <1.50E0 | pCi/g dry | 1.50E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14993-75-0 | Americium-243 | <6.43E-1 | pCi/g dry | 6.43E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15757-87-6 | Curium-243 | <1.21E0 | pCi/g dry | 1.21E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15621-76-8 | Curium-245 | <9.94E-1 | pCi/g dry | 9.94E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| **HEIS No.** | **B1VJ61A** | | **Lab ID:** | **0805020-24** | | | | |
| 13966-32-0 | Sodium-22 | <3.39E-1 | pCi/g dry | 3.39E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13966-00-2 | Potassium-40 | 1.93E1 | pCi/g dry | 3.37E0 | 1.24 | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14392-02-0 | Chromium-51 | <2.93E0 | pCi/g dry | 2.93E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13966-31-9 | Manganese-54 | <3.01E-1 | pCi/g dry | 3.01E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13981-50-5 | Cobalt-57 | <3.11E-1 | pCi/g dry | 3.11E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14596-12-4 | Iron-59 | <5.66E-1 | pCi/g dry | 5.66E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 10198-40-0 | Cobalt-60 | <3.27E-1 | pCi/g dry | 3.27E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13982-39-3 | Zinc-65 | <7.12E-1 | pCi/g dry | 7.12E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14265-71-5 | Selenium-75 | <4.99E-1 | pCi/g dry | 4.99E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 17056-36-9 | Rubidium-83 | <7.65E-1 | pCi/g dry | 7.65E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |

# GEA/Soil

| CAS # | Analyte | Results | Units | MDA | UNC | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ61A** | | **Lab ID:** | **0805020-24** | | | | |
| 13967-73-2 | Strontium-85 | <3.48E-1 | pCi/g dry | 3.48E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14932-53-7 | Rubidium-86 | <3.75E0 | pCi/g dry | 3.75E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13982-36-0 | Yttrium-88 | <2.30E-1 | pCi/g dry | 2.30E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14681-63-1 | Niobium-94 | <3.11E-1 | pCi/g dry | 3.11E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13967-76-5 | Niobium-95 | <3.06E-1 | pCi/g dry | 3.06E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| | Niobium-95m | <1.37E0 | pCi/g dry | 1.37E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| | Technetium-95m | <4.66E-1 | pCi/g dry | 4.66E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13967-71-0 | Zirconium-95 | <5.32E-1 | pCi/g dry | 5.32E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| | Technetium-99m | <3.12E-1 | pCi/g dry | 3.12E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13968-53-1 | Ruthenium-103 | <3.35E-1 | pCi/g dry | 3.35E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13967-48-1 | Ruthenium-106 | <3.55E0 | pCi/g dry | 3.55E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14391-65-2 | Silver-108m | <3.03E-1 | pCi/g dry | 3.03E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14109-32-1 | Cadmium-109 | <8.67E0 | pCi/g dry | 8.67E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| | Silver-110 | <3.25E-1 | pCi/g dry | 3.25E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14391-76-5 | Silver-110m | <3.26E-1 | pCi/g dry | 3.26E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13966-06-8 | Tin-113 | <4.31E-1 | pCi/g dry | 4.31E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14683-10-4 | Antimony-124 | <3.77E-1 | pCi/g dry | 3.77E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14234-35-6 | Antimony-125 | <9.40E-1 | pCi/g dry | 9.40E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15756-32-8 | Antimony-126 | <3.12E-1 | pCi/g dry | 3.12E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15832-50-5 | Tin-126 | <7.11E-1 | pCi/g dry | 7.11E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 10043-66-0 | Iodine-131 | <3.77E-1 | pCi/g dry | 3.77E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13981-41-4 | Barium-133 | <5.28E-1 | pCi/g dry | 5.28E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13967-70-9 | Cesium-134 | <3.65E-1 | pCi/g dry | 3.65E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 10045-97-3 | Cesium-137 | <3.69E-1 | pCi/g dry | 3.69E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13982-30-4 | Cerium-139 | <3.55E-1 | pCi/g dry | 3.55E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14762-78-8 | Cerium-144 | <2.53E0 | pCi/g dry | 2.53E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14683-23-9 | Europium-152 | <1.24E0 | pCi/g dry | 1.24E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14276-65-4 | Gadolinium-153 | <9.59E-1 | pCi/g dry | 9.59E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15585-10-1 | Europium-154 | <6.57E-1 | pCi/g dry | 6.57E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14391-16-3 | Europium-155 | <1.01E0 | pCi/g dry | 1.01E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13982-78-0 | Mercury-203 | <3.80E-1 | pCi/g dry | 3.80E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14913-50-9 | Thallium-208 | <3.91E-1 | pCi/g dry | 3.91E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14331-79-4 | Bismuth-210 | <5.97E-1 | pCi/g dry | 5.97E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14255-04-0 | Lead-210 | <4.21E1 | pCi/g dry | 4.21E1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| | Bismuth-211 | <6.93E0 | pCi/g dry | 6.93E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| | Lead-211 | <9.48E0 | pCi/g dry | 9.48E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15092-94-1 | Lead-212 | <7.77E-1 | pCi/g dry | 7.77E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14733-03-0 | Bismuth-214 | <8.04E-1 | pCi/g dry | 8.04E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15067-28-4 | Lead-214 | <8.55E-1 | pCi/g dry | 8.55E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14835-02-0 | Radon-219 | <2.99E0 | pCi/g dry | 2.99E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 22481-48-7 | Radon-220 | <2.82E2 | pCi/g dry | 2.82E2 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 28522-20-5 | Radon-221 | <1.41E0 | pCi/g dry | 1.41E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15756-98-6 | Francium-223 | <1.00E1 | pCi/g dry | 1.00E1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15623-45-7 | Radium-223 | <2.18E0 | pCi/g dry | 2.18E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13233-32-4 | Radium-224 | <8.47E0 | pCi/g dry | 8.47E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13982-63-3 | Radium-226 | <8.67E0 | pCi/g dry | 8.67E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15623-47-9 | Thorium-227 | <3.05E0 | pCi/g dry | 3.05E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14331-83-0 | Actinium-228 | <1.32E0 | pCi/g dry | 1.32E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14274-82-9 | Thorium-228 | <1.12E2 | pCi/g dry | 1.12E2 | | 6/24/08 | 8F20002 | AGG-RRL-001 |

# GEA/Soil

| CAS # | Analyte | Results | Units | MDA | UNC | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ61A** | | **Lab ID:** | **0805020-24** | | | | |
| 14269-63-7 | Thorium-230 | <1.13E2 | pCi/g dry | 1.13E2 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14331-85-2 | Protactinium-231 | <1.32E1 | pCi/g dry | 1.32E1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14932-40-2 | Thorium-231 | <6.87E1 | pCi/g dry | 6.87E1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 7440-29-1 | Thorium-232 | <2.85E2 | pCi/g dry | 2.85E2 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13981-14-1 | Protactinium-233 | <8.10E-1 | pCi/g dry | 8.10E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15100-28-4 | Protactinium-234 | <1.25E0 | pCi/g dry | 1.25E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| | Protactinium-234m | <3.46E1 | pCi/g dry | 3.46E1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15065-10-8 | Thorium-234 | <9.84E0 | pCi/g dry | 9.84E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15117-96-1 | Uranium 235 | <2.62E0 | pCi/g dry | 2.62E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13994-20-2 | Neptunium-237 | <2.63E0 | pCi/g dry | 2.63E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13981-16-3 | Plutonium-238 | <3.93E3 | pCi/g dry | 3.93E3 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| | Uranium 238 | <5.54E0 | pCi/g dry | 5.54E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15117-48-3 | Plutonium-239 | <3.99E3 | pCi/g dry | 3.99E3 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14119-33-6 | Plutonium-240 | <3.98E3 | pCi/g dry | 3.98E3 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14596-10-2 | Americium-241 | <1.45E0 | pCi/g dry | 1.45E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14993-75-0 | Americium-243 | <6.27E-1 | pCi/g dry | 6.27E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15757-87-6 | Curium-243 | <1.22E0 | pCi/g dry | 1.22E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15621-76-8 | Curium-245 | <9.99E-1 | pCi/g dry | 9.99E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| **HEIS No.** | **B1VJ62C** | | **Lab ID:** | **0805020-26** | | | | |
| 13966-32-0 | Sodium-22 | <3.33E-1 | pCi/g dry | 3.33E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13966-00-2 | Potassium-40 | 1.91E1 | pCi/g dry | 2.99E0 | 1.21 | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14392-02-0 | Chromium-51 | <2.69E0 | pCi/g dry | 2.69E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13966-31-9 | Manganese-54 | <2.92E-1 | pCi/g dry | 2.92E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13981-50-5 | Cobalt-57 | <2.97E-1 | pCi/g dry | 2.97E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14596-12-4 | Iron-59 | <5.10E-1 | pCi/g dry | 5.10E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 10198-40-0 | Cobalt-60 | <2.74E-1 | pCi/g dry | 2.74E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13982-39-3 | Zinc-65 | <6.22E-1 | pCi/g dry | 6.22E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14265-71-5 | Selenium-75 | <4.77E-1 | pCi/g dry | 4.77E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 17056-36-9 | Rubidium-83 | <5.86E-1 | pCi/g dry | 5.86E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13967-73-2 | Strontium-85 | <3.70E-1 | pCi/g dry | 3.70E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14932-53-7 | Rubidium-86 | <3.61E0 | pCi/g dry | 3.61E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13982-36-0 | Yttrium-88 | <2.12E-1 | pCi/g dry | 2.12E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14681-63-1 | Niobium-94 | <2.84E-1 | pCi/g dry | 2.84E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13967-76-5 | Niobium-95 | <2.78E-1 | pCi/g dry | 2.78E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| | Niobium-95m | <1.33E0 | pCi/g dry | 1.33E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| | Technetium-95m | <4.52E-1 | pCi/g dry | 4.52E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13967-71-0 | Zirconium-95 | <4.97E-1 | pCi/g dry | 4.97E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| | Technetium-99m | <2.86E-1 | pCi/g dry | 2.86E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13968-53-1 | Ruthenium-103 | <3.09E-1 | pCi/g dry | 3.09E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13967-48-1 | Ruthenium-106 | <2.70E0 | pCi/g dry | 2.70E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14391-65-2 | Silver-108m | <2.90E-1 | pCi/g dry | 2.90E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14109-32-1 | Cadmium-109 | <7.83E0 | pCi/g dry | 7.83E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| | Silver-110 | <2.94E-1 | pCi/g dry | 2.94E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14391-76-5 | Silver-110m | <2.95E-1 | pCi/g dry | 2.95E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13966-06-8 | Tin-113 | <4.19E-1 | pCi/g dry | 4.19E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14683-10-4 | Antimony-124 | <2.89E-1 | pCi/g dry | 2.89E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14234-35-6 | Antimony-125 | <8.95E-1 | pCi/g dry | 8.95E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15756-32-8 | Antimony-126 | <2.94E-1 | pCi/g dry | 2.94E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |

# GEA/Soil

| CAS # | Analyte | Results | Units | MDA | UNC | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ62C** | | **Lab ID:** | **0805020-26** | | | | |
| 15832-50-5 | Tin-126 | <6.16E-1 | pCi/g dry | 6.16E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 10043-66-0 | Iodine-131 | <3.40E-1 | pCi/g dry | 3.40E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13981-41-4 | Barium-133 | <5.27E-1 | pCi/g dry | 5.27E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13967-70-9 | Cesium-134 | <3.38E-1 | pCi/g dry | 3.38E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 10045-97-3 | Cesium-137 | <3.36E-1 | pCi/g dry | 3.36E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13982-30-4 | Cerium-139 | <3.30E-1 | pCi/g dry | 3.30E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14762-78-8 | Cerium-144 | <2.27E0 | pCi/g dry | 2.27E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14683-23-9 | Europium-152 | <1.03E0 | pCi/g dry | 1.03E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14276-65-4 | Gadolinium-153 | <8.19E-1 | pCi/g dry | 8.19E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15585-10-1 | Europium-154 | <6.25E-1 | pCi/g dry | 6.25E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14391-16-3 | Europium-155 | <8.57E-1 | pCi/g dry | 8.57E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13982-78-0 | Mercury-203 | <3.51E-1 | pCi/g dry | 3.51E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14913-50-9 | Thallium-208 | <2.92E-1 | pCi/g dry | 2.92E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14331-79-4 | Bismuth-210 | <5.77E-1 | pCi/g dry | 5.77E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14255-04-0 | Lead-210 | <1.08E2 | pCi/g dry | 1.08E2 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| | Bismuth-211 | <6.56E0 | pCi/g dry | 6.56E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| | Lead-211 | <8.97E0 | pCi/g dry | 8.97E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15092-94-1 | Lead-212 | <6.53E-1 | pCi/g dry | 6.53E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14733-03-0 | Bismuth-214 | <6.70E-1 | pCi/g dry | 6.70E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15067-28-4 | Lead-214 | <8.34E-1 | pCi/g dry | 8.34E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14835-02-0 | Radon-219 | <2.89E0 | pCi/g dry | 2.89E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 22481-48-7 | Radon-220 | <2.35E2 | pCi/g dry | 2.35E2 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 28522-20-5 | Radon-221 | <1.32E0 | pCi/g dry | 1.32E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15756-98-6 | Francium-223 | <9.57E0 | pCi/g dry | 9.57E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15623-45-7 | Radium-223 | <2.14E0 | pCi/g dry | 2.14E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13233-32-4 | Radium-224 | <8.33E0 | pCi/g dry | 8.33E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13982-63-3 | Radium-226 | <8.14E0 | pCi/g dry | 8.14E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15623-47-9 | Thorium-227 | <2.97E0 | pCi/g dry | 2.97E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14331-83-0 | Actinium-228 | <1.32E0 | pCi/g dry | 1.32E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14274-82-9 | Thorium-228 | <1.06E2 | pCi/g dry | 1.06E2 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14269-63-7 | Thorium-230 | <1.08E2 | pCi/g dry | 1.08E2 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14331-85-2 | Protactinium-231 | <1.18E1 | pCi/g dry | 1.18E1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14932-40-2 | Thorium-231 | <5.80E1 | pCi/g dry | 5.80E1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 7440-29-1 | Thorium-232 | <3.56E2 | pCi/g dry | 3.56E2 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13981-14-1 | Protactinium-233 | <7.09E-1 | pCi/g dry | 7.09E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15100-28-4 | Protactinium-234 | <1.04E0 | pCi/g dry | 1.04E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| | Protactinium-234m | <3.50E1 | pCi/g dry | 3.50E1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15065-10-8 | Thorium-234 | <9.67E0 | pCi/g dry | 9.67E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15117-96-1 | Uranium 235 | <2.42E0 | pCi/g dry | 2.42E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13994-20-2 | Neptunium-237 | <2.23E0 | pCi/g dry | 2.23E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13981-16-3 | Plutonium-238 | <3.31E3 | pCi/g dry | 3.31E3 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| | Uranium 238 | <5.01E0 | pCi/g dry | 5.01E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15117-48-3 | Plutonium-239 | <4.03E3 | pCi/g dry | 4.03E3 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14119-33-6 | Plutonium-240 | <3.41E3 | pCi/g dry | 3.41E3 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14596-10-2 | Americium-241 | <1.73E0 | pCi/g dry | 1.73E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14993-75-0 | Americium-243 | <3.56E-1 | pCi/g dry | 3.56E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15757-87-6 | Curium-243 | <1.04E0 | pCi/g dry | 1.04E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15621-76-8 | Curium-245 | <8.54E-1 | pCi/g dry | 8.54E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |

# GEA/Soil

| CAS # | Analyte | Results | Units | MDA | UNC | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ62B** | | **Lab ID:** | **0805020-27** | | | | |
| 13966-32-0 | Sodium-22 | <3.33E-1 | pCi/g dry | 3.33E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13966-00-2 | Potassium-40 | 2.04E1 | pCi/g dry | 3.04E0 | 1.27 | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14392-02-0 | Chromium-51 | <2.86E0 | pCi/g dry | 2.86E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13966-31-9 | Manganese-54 | <3.06E-1 | pCi/g dry | 3.06E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13981-50-5 | Cobalt-57 | <2.88E-1 | pCi/g dry | 2.88E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14596-12-4 | Iron-59 | <5.81E-1 | pCi/g dry | 5.81E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 10198-40-0 | Cobalt-60 | <3.18E-1 | pCi/g dry | 3.18E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13982-39-3 | Zinc-65 | <7.32E-1 | pCi/g dry | 7.32E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14265-71-5 | Selenium-75 | <4.83E-1 | pCi/g dry | 4.83E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 17056-36-9 | Rubidium-83 | <5.74E-1 | pCi/g dry | 5.74E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13967-73-2 | Strontium-85 | <3.92E-1 | pCi/g dry | 3.92E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14932-53-7 | Rubidium-86 | <3.72E0 | pCi/g dry | 3.72E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13982-36-0 | Yttrium-88 | <2.32E-1 | pCi/g dry | 2.32E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14681-63-1 | Niobium-94 | <2.90E-1 | pCi/g dry | 2.90E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13967-76-5 | Niobium-95 | <3.02E-1 | pCi/g dry | 3.02E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| | Niobium-95m | <1.40E0 | pCi/g dry | 1.40E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| | Technetium-95m | <4.66E-1 | pCi/g dry | 4.66E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13967-71-0 | Zirconium-95 | <5.36E-1 | pCi/g dry | 5.36E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| | Technetium-99m | <3.05E-1 | pCi/g dry | 3.05E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13968-53-1 | Ruthenium-103 | <2.95E-1 | pCi/g dry | 2.95E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13967-48-1 | Ruthenium-106 | <2.93E0 | pCi/g dry | 2.93E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14391-65-2 | Silver-108m | <3.06E-1 | pCi/g dry | 3.06E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14109-32-1 | Cadmium-109 | <8.01E0 | pCi/g dry | 8.01E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| | Silver-110 | <3.07E-1 | pCi/g dry | 3.07E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14391-76-5 | Silver-110m | <3.08E-1 | pCi/g dry | 3.08E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13966-06-8 | Tin-113 | <4.14E-1 | pCi/g dry | 4.14E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14683-10-4 | Antimony-124 | <2.88E-1 | pCi/g dry | 2.88E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14234-35-6 | Antimony-125 | <9.16E-1 | pCi/g dry | 9.16E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15756-32-8 | Antimony-126 | <3.11E-1 | pCi/g dry | 3.11E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15832-50-5 | Tin-126 | <6.36E-1 | pCi/g dry | 6.36E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 10043-66-0 | Iodine-131 | <3.53E-1 | pCi/g dry | 3.53E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13981-41-4 | Barium-133 | <5.84E-1 | pCi/g dry | 5.84E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13967-70-9 | Cesium-134 | <3.30E-1 | pCi/g dry | 3.30E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 10045-97-3 | Cesium-137 | <3.60E-1 | pCi/g dry | 3.60E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13982-30-4 | Cerium-139 | <3.52E-1 | pCi/g dry | 3.52E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14762-78-8 | Cerium-144 | <2.37E0 | pCi/g dry | 2.37E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14683-23-9 | Europium-152 | <1.09E0 | pCi/g dry | 1.09E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14276-65-4 | Gadolinium-153 | <8.66E-1 | pCi/g dry | 8.66E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15585-10-1 | Europium-154 | <6.07E-1 | pCi/g dry | 6.07E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14391-16-3 | Europium-155 | <8.90E-1 | pCi/g dry | 8.90E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13982-78-0 | Mercury-203 | <3.74E-1 | pCi/g dry | 3.74E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14913-50-9 | Thallium-208 | <3.16E-1 | pCi/g dry | 3.16E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14331-79-4 | Bismuth-210 | <5.70E-1 | pCi/g dry | 5.70E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14255-04-0 | Lead-210 | <1.11E2 | pCi/g dry | 1.11E2 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| | Bismuth-211 | <7.17E0 | pCi/g dry | 7.17E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| | Lead-211 | <9.80E0 | pCi/g dry | 9.80E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15092-94-1 | Lead-212 | <6.39E-1 | pCi/g dry | 6.39E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14733-03-0 | Bismuth-214 | <7.76E-1 | pCi/g dry | 7.76E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15067-28-4 | Lead-214 | <9.11E-1 | pCi/g dry | 9.11E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |

# GEA/Soil

| CAS # | Analyte | Results | Units | MDA | UNC | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ62B** | | **Lab ID:** | **0805020-27** | | | | |
| 14835-02-0 | Radon-219 | <2.87E0 | pCi/g dry | 2.87E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 22481-48-7 | Radon-220 | <2.71E2 | pCi/g dry | 2.71E2 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 28522-20-5 | Radon-221 | <1.34E0 | pCi/g dry | 1.34E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15756-98-6 | Francium-223 | <1.02E1 | pCi/g dry | 1.02E1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15623-45-7 | Radium-223 | <2.11E0 | pCi/g dry | 2.11E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13233-32-4 | Radium-224 | <8.83E0 | pCi/g dry | 8.83E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13982-63-3 | Radium-226 | <8.34E0 | pCi/g dry | 8.34E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15623-47-9 | Thorium-227 | <3.13E0 | pCi/g dry | 3.13E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14331-83-0 | Actinium-228 | <1.41E0 | pCi/g dry | 1.41E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14274-82-9 | Thorium-228 | <1.08E2 | pCi/g dry | 1.08E2 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14269-63-7 | Thorium-230 | <1.13E2 | pCi/g dry | 1.13E2 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14331-85-2 | Protactinium-231 | <1.25E1 | pCi/g dry | 1.25E1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14932-40-2 | Thorium-231 | <6.28E1 | pCi/g dry | 6.28E1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 7440-29-1 | Thorium-232 | <3.74E2 | pCi/g dry | 3.74E2 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13981-14-1 | Protactinium-233 | <7.85E-1 | pCi/g dry | 7.85E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15100-28-4 | Protactinium-234 | <1.11E0 | pCi/g dry | 1.11E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| | Protactinium-234m | <3.76E1 | pCi/g dry | 3.76E1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15065-10-8 | Thorium-234 | <1.00E1 | pCi/g dry | 1.00E1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15117-96-1 | Uranium 235 | <2.53E0 | pCi/g dry | 2.53E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13994-20-2 | Neptunium-237 | <2.32E0 | pCi/g dry | 2.32E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13981-16-3 | Plutonium-238 | <3.53E3 | pCi/g dry | 3.53E3 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| | Uranium 238 | <5.20E0 | pCi/g dry | 5.20E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15117-48-3 | Plutonium-239 | <4.06E3 | pCi/g dry | 4.06E3 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14119-33-6 | Plutonium-240 | <3.63E3 | pCi/g dry | 3.63E3 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14596-10-2 | Americium-241 | <1.85E0 | pCi/g dry | 1.85E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14993-75-0 | Americium-243 | <6.22E-1 | pCi/g dry | 6.22E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15757-87-6 | Curium-243 | <1.11E0 | pCi/g dry | 1.11E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15621-76-8 | Curium-245 | <9.08E-1 | pCi/g dry | 9.08E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| **HEIS No.** | **B1VJ62A** | | **Lab ID:** | **0805020-28** | | | | |
| 13966-32-0 | Sodium-22 | <3.71E-1 | pCi/g dry | 3.71E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13966-00-2 | Potassium-40 | 1.95E1 | pCi/g dry | 3.79E0 | 1.28 | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14392-02-0 | Chromium-51 | <3.10E0 | pCi/g dry | 3.10E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13966-31-9 | Manganese-54 | <3.28E-1 | pCi/g dry | 3.28E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13981-50-5 | Cobalt-57 | <3.14E-1 | pCi/g dry | 3.14E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14596-12-4 | Iron-59 | <5.82E-1 | pCi/g dry | 5.82E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 10198-40-0 | Cobalt-60 | <3.30E-1 | pCi/g dry | 3.30E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13982-39-3 | Zinc-65 | <7.13E-1 | pCi/g dry | 7.13E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14265-71-5 | Selenium-75 | <5.04E-1 | pCi/g dry | 5.04E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 17056-36-9 | Rubidium-83 | <8.08E-1 | pCi/g dry | 8.08E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13967-73-2 | Strontium-85 | <3.78E-1 | pCi/g dry | 3.78E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14932-53-7 | Rubidium-86 | <4.36E0 | pCi/g dry | 4.36E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13982-36-0 | Yttrium-88 | <2.43E-1 | pCi/g dry | 2.43E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14681-63-1 | Niobium-94 | <3.24E-1 | pCi/g dry | 3.24E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13967-76-5 | Niobium-95 | <3.00E-1 | pCi/g dry | 3.00E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| | Niobium-95m | <1.43E0 | pCi/g dry | 1.43E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| | Technetium-95m | <4.93E-1 | pCi/g dry | 4.93E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13967-71-0 | Zirconium-95 | <5.23E-1 | pCi/g dry | 5.23E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| | Technetium-99m | <3.25E-1 | pCi/g dry | 3.25E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |

# GEA/Soil

| CAS # | Analyte | Results | Units | MDA | UNC | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ62A** | | **Lab ID:** | **0805020-28** | | | | |
| 13968-53-1 | Ruthenium-103 | <3.69E-1 | pCi/g dry | 3.69E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13967-48-1 | Ruthenium-106 | <3.55E0 | pCi/g dry | 3.55E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14391-65-2 | Silver-108m | <3.12E-1 | pCi/g dry | 3.12E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14109-32-1 | Cadmium-109 | <9.36E0 | pCi/g dry | 9.36E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| | Silver-110 | <3.23E-1 | pCi/g dry | 3.23E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14391-76-5 | Silver-110m | <3.23E-1 | pCi/g dry | 3.23E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13966-06-8 | Tin-113 | <4.68E-1 | pCi/g dry | 4.68E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14683-10-4 | Antimony-124 | <3.74E-1 | pCi/g dry | 3.74E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14234-35-6 | Antimony-125 | <9.64E-1 | pCi/g dry | 9.64E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15756-32-8 | Antimony-126 | <3.14E-1 | pCi/g dry | 3.14E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15832-50-5 | Tin-126 | <7.66E-1 | pCi/g dry | 7.66E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 10043-66-0 | Iodine-131 | <4.01E-1 | pCi/g dry | 4.01E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13981-41-4 | Barium-133 | <5.54E-1 | pCi/g dry | 5.54E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13967-70-9 | Cesium-134 | <3.64E-1 | pCi/g dry | 3.64E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 10045-97-3 | Cesium-137 | <3.63E-1 | pCi/g dry | 3.63E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13982-30-4 | Cerium-139 | <3.63E-1 | pCi/g dry | 3.63E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14762-78-8 | Cerium-144 | <2.61E0 | pCi/g dry | 2.61E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14683-23-9 | Europium-152 | <1.31E0 | pCi/g dry | 1.31E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14276-65-4 | Gadolinium-153 | <1.01E0 | pCi/g dry | 1.01E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15585-10-1 | Europium-154 | <6.67E-1 | pCi/g dry | 6.67E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14391-16-3 | Europium-155 | <1.09E0 | pCi/g dry | 1.09E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13982-78-0 | Mercury-203 | <3.90E-1 | pCi/g dry | 3.90E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14913-50-9 | Thallium-208 | <4.12E-1 | pCi/g dry | 4.12E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14331-79-4 | Bismuth-210 | <6.01E-1 | pCi/g dry | 6.01E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14255-04-0 | Lead-210 | <4.38E1 | pCi/g dry | 4.38E1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| | Bismuth-211 | <7.10E0 | pCi/g dry | 7.10E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| | Lead-211 | <9.70E0 | pCi/g dry | 9.70E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15092-94-1 | Lead-212 | <8.33E-1 | pCi/g dry | 8.33E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14733-03-0 | Bismuth-214 | <7.87E-1 | pCi/g dry | 7.87E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15067-28-4 | Lead-214 | <8.95E-1 | pCi/g dry | 8.95E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14835-02-0 | Radon-219 | <3.07E0 | pCi/g dry | 3.07E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 22481-48-7 | Radon-220 | <3.05E2 | pCi/g dry | 3.05E2 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 28522-20-5 | Radon-221 | <1.46E0 | pCi/g dry | 1.46E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15756-98-6 | Francium-223 | <1.06E1 | pCi/g dry | 1.06E1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15623-45-7 | Radium-223 | <2.24E0 | pCi/g dry | 2.24E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13233-32-4 | Radium-224 | <9.11E0 | pCi/g dry | 9.11E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13982-63-3 | Radium-226 | <8.98E0 | pCi/g dry | 8.98E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15623-47-9 | Thorium-227 | <3.20E0 | pCi/g dry | 3.20E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14331-83-0 | Actinium-228 | <1.40E0 | pCi/g dry | 1.40E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14274-82-9 | Thorium-228 | <1.15E2 | pCi/g dry | 1.15E2 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14269-63-7 | Thorium-230 | <1.24E2 | pCi/g dry | 1.24E2 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14331-85-2 | Protactinium-231 | <1.37E1 | pCi/g dry | 1.37E1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14932-40-2 | Thorium-231 | <7.16E1 | pCi/g dry | 7.16E1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 7440-29-1 | Thorium-232 | <3.04E2 | pCi/g dry | 3.04E2 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13981-14-1 | Protactinium-233 | <8.21E-1 | pCi/g dry | 8.21E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15100-28-4 | Protactinium-234 | <1.31E0 | pCi/g dry | 1.31E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| | Protactinium-234m | <4.18E1 | pCi/g dry | 4.18E1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15065-10-8 | Thorium-234 | <1.07E1 | pCi/g dry | 1.07E1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15117-96-1 | Uranium 235 | <2.76E0 | pCi/g dry | 2.76E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |

# GEA/Soil

| CAS # | Analyte | Results | Units | MDA | UNC | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ62A** | | **Lab ID:** | **0805020-28** | | | | |
| 13994-20-2 | Neptunium-237 | <2.83E0 | pCi/g dry | 2.83E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 13981-16-3 | Plutonium-238 | <4.09E3 | pCi/g dry | 4.09E3 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| | Uranium 238 | <5.91E0 | pCi/g dry | 5.91E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15117-48-3 | Plutonium-239 | <4.15E3 | pCi/g dry | 4.15E3 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14119-33-6 | Plutonium-240 | <4.10E3 | pCi/g dry | 4.10E3 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14596-10-2 | Americium-241 | <1.56E0 | pCi/g dry | 1.56E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 14993-75-0 | Americium-243 | <6.86E-1 | pCi/g dry | 6.86E-1 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15757-87-6 | Curium-243 | <1.26E0 | pCi/g dry | 1.26E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| 15621-76-8 | Curium-245 | <1.03E0 | pCi/g dry | 1.03E0 | | 6/24/08 | 8F20002 | AGG-RRL-001 |
| **HEIS No.** | **B1VJ64C** | | **Lab ID:** | **0805020-30** | | | | |
| 13966-32-0 | Sodium-22 | <3.22E-1 | pCi/g dry | 3.22E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13966-00-2 | Potassium-40 | 2.01E1 | pCi/g dry | 2.69E0 | 1.18 | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14392-02-0 | Chromium-51 | <2.60E0 | pCi/g dry | 2.60E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13966-31-9 | Manganese-54 | <2.67E-1 | pCi/g dry | 2.67E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13981-50-5 | Cobalt-57 | <2.68E-1 | pCi/g dry | 2.68E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14596-12-4 | Iron-59 | <5.62E-1 | pCi/g dry | 5.62E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 10198-40-0 | Cobalt-60 | <2.83E-1 | pCi/g dry | 2.83E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13982-39-3 | Zinc-65 | <6.71E-1 | pCi/g dry | 6.71E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14265-71-5 | Selenium-75 | <4.35E-1 | pCi/g dry | 4.35E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 17056-36-9 | Rubidium-83 | <5.15E-1 | pCi/g dry | 5.15E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13967-73-2 | Strontium-85 | <3.40E-1 | pCi/g dry | 3.40E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14932-53-7 | Rubidium-86 | <2.91E0 | pCi/g dry | 2.91E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13982-36-0 | Yttrium-88 | <1.49E-1 | pCi/g dry | 1.49E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14681-63-1 | Niobium-94 | <2.59E-1 | pCi/g dry | 2.59E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13967-76-5 | Niobium-95 | <2.68E-1 | pCi/g dry | 2.68E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| | Niobium-95m | <1.27E0 | pCi/g dry | 1.27E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| | Technetium-95m | <4.25E-1 | pCi/g dry | 4.25E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13967-71-0 | Zirconium-95 | <4.52E-1 | pCi/g dry | 4.52E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| | Technetium-99m | <2.64E-1 | pCi/g dry | 2.64E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13968-53-1 | Ruthenium-103 | <2.90E-1 | pCi/g dry | 2.90E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13967-48-1 | Ruthenium-106 | <2.38E0 | pCi/g dry | 2.38E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14391-65-2 | Silver-108m | <2.67E-1 | pCi/g dry | 2.67E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14109-32-1 | Cadmium-109 | <7.39E0 | pCi/g dry | 7.39E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| | Silver-110 | <2.86E-1 | pCi/g dry | 2.86E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14391-76-5 | Silver-110m | <2.87E-1 | pCi/g dry | 2.87E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13966-06-8 | Tin-113 | <3.98E-1 | pCi/g dry | 3.98E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14683-10-4 | Antimony-124 | <2.91E-1 | pCi/g dry | 2.91E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14234-35-6 | Antimony-125 | <8.66E-1 | pCi/g dry | 8.66E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 15756-32-8 | Antimony-126 | <2.67E-1 | pCi/g dry | 2.67E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 15832-50-5 | Tin-126 | <5.87E-1 | pCi/g dry | 5.87E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 10043-66-0 | Iodine-131 | <2.97E-1 | pCi/g dry | 2.97E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13981-41-4 | Barium-133 | <5.23E-1 | pCi/g dry | 5.23E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13967-70-9 | Cesium-134 | <3.24E-1 | pCi/g dry | 3.24E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 10045-97-3 | Cesium-137 | <3.20E-1 | pCi/g dry | 3.20E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13982-30-4 | Cerium-139 | <3.18E-1 | pCi/g dry | 3.18E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14762-78-8 | Cerium-144 | <2.14E0 | pCi/g dry | 2.14E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14683-23-9 | Europium-152 | <1.04E0 | pCi/g dry | 1.04E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14276-65-4 | Gadolinium-153 | <8.08E-1 | pCi/g dry | 8.08E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |

# GEA/Soil

| CAS # | Analyte | Results | Units | MDA | UNC | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ64C** | | **Lab ID:** | **0805020-30** | | | | |
| 15585-10-1 | Europium-154 | <5.68E-1 | pCi/g dry | 5.68E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14391-16-3 | Europium-155 | <8.30E-1 | pCi/g dry | 8.30E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13982-78-0 | Mercury-203 | <3.28E-1 | pCi/g dry | 3.28E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14913-50-9 | Thallium-208 | <2.55E-1 | pCi/g dry | 2.55E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14331-79-4 | Bismuth-210 | <5.19E-1 | pCi/g dry | 5.19E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14255-04-0 | Lead-210 | <1.01E2 | pCi/g dry | 1.01E2 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| | Bismuth-211 | <6.33E0 | pCi/g dry | 6.33E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| | Lead-211 | <8.65E0 | pCi/g dry | 8.65E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 15092-94-1 | Lead-212 | 5.99E-1 | pCi/g dry | 5.01E-1 | 0.22 | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14733-03-0 | Bismuth-214 | <7.26E-1 | pCi/g dry | 7.26E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 15067-28-4 | Lead-214 | <8.48E-1 | pCi/g dry | 8.48E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14835-02-0 | Radon-219 | <2.59E0 | pCi/g dry | 2.59E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 22481-48-7 | Radon-220 | <2.32E2 | pCi/g dry | 2.32E2 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 28522-20-5 | Radon-221 | <1.25E0 | pCi/g dry | 1.25E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 15756-98-6 | Francium-223 | <9.23E0 | pCi/g dry | 9.23E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 15623-45-7 | Radium-223 | <1.90E0 | pCi/g dry | 1.90E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13233-32-4 | Radium-224 | <4.71E0 | pCi/g dry | 4.71E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13982-63-3 | Radium-226 | <7.77E0 | pCi/g dry | 7.77E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 15623-47-9 | Thorium-227 | <2.84E0 | pCi/g dry | 2.84E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14331-83-0 | Actinium-228 | <1.24E0 | pCi/g dry | 1.24E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14274-82-9 | Thorium-228 | <9.99E1 | pCi/g dry | 9.99E1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14269-63-7 | Thorium-230 | <1.05E2 | pCi/g dry | 1.05E2 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14331-85-2 | Protactinium-231 | <1.13E1 | pCi/g dry | 1.13E1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14932-40-2 | Thorium-231 | <5.64E1 | pCi/g dry | 5.64E1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 7440-29-1 | Thorium-232 | <3.38E2 | pCi/g dry | 3.38E2 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13981-14-1 | Protactinium-233 | <7.05E-1 | pCi/g dry | 7.05E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 15100-28-4 | Protactinium-234 | <1.03E0 | pCi/g dry | 1.03E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| | Protactinium-234m | <3.50E1 | pCi/g dry | 3.50E1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 15065-10-8 | Thorium-234 | <9.54E0 | pCi/g dry | 9.54E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 15117-96-1 | Uranium 235 | <2.23E0 | pCi/g dry | 2.23E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13994-20-2 | Neptunium-237 | <2.16E0 | pCi/g dry | 2.16E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13981-16-3 | Plutonium-238 | <3.20E3 | pCi/g dry | 3.20E3 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| | Uranium 238 | <4.94E0 | pCi/g dry | 4.94E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 15117-48-3 | Plutonium-239 | <3.76E3 | pCi/g dry | 3.76E3 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14119-33-6 | Plutonium-240 | <3.30E3 | pCi/g dry | 3.30E3 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14596-10-2 | Americium-241 | <1.65E0 | pCi/g dry | 1.65E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14993-75-0 | Americium-243 | <5.90E-1 | pCi/g dry | 5.90E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 15757-87-6 | Curium-243 | <1.01E0 | pCi/g dry | 1.01E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 15621-76-8 | Curium-245 | <8.26E-1 | pCi/g dry | 8.26E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| **HEIS No.** | **B1VJ64B** | | **Lab ID:** | **0805020-31** | | | | |
| 13966-32-0 | Sodium-22 | <3.40E-1 | pCi/g dry | 3.40E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13966-00-2 | Potassium-40 | 1.77E1 | pCi/g dry | 3.10E0 | 1.17 | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14392-02-0 | Chromium-51 | <3.02E0 | pCi/g dry | 3.02E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13966-31-9 | Manganese-54 | <3.12E-1 | pCi/g dry | 3.12E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13981-50-5 | Cobalt-57 | <3.26E-1 | pCi/g dry | 3.26E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14596-12-4 | Iron-59 | <6.15E-1 | pCi/g dry | 6.15E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 10198-40-0 | Cobalt-60 | <3.32E-1 | pCi/g dry | 3.32E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13982-39-3 | Zinc-65 | <7.45E-1 | pCi/g dry | 7.45E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |

# GEA/Soil

| CAS # | Analyte | Results | Units | MDA | UNC | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ64B** | | **Lab ID:** | **0805020-31** | | | | |
| 14265-71-5 | Selenium-75 | <5.14E-1 | pCi/g dry | 5.14E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 17056-36-9 | Rubidium-83 | <7.63E-1 | pCi/g dry | 7.63E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13967-73-2 | Strontium-85 | <3.59E-1 | pCi/g dry | 3.59E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14932-53-7 | Rubidium-86 | <3.87E0 | pCi/g dry | 3.87E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13982-36-0 | Yttrium-88 | <3.19E-1 | pCi/g dry | 3.19E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14681-63-1 | Niobium-94 | <3.00E-1 | pCi/g dry | 3.00E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13967-76-5 | Niobium-95 | <3.15E-1 | pCi/g dry | 3.15E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| | Niobium-95m | <1.44E0 | pCi/g dry | 1.44E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| | Technetium-95m | <4.86E-1 | pCi/g dry | 4.86E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13967-71-0 | Zirconium-95 | <5.36E-1 | pCi/g dry | 5.36E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| | Technetium-99m | <3.24E-1 | pCi/g dry | 3.24E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13968-53-1 | Ruthenium-103 | <3.46E-1 | pCi/g dry | 3.46E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13967-48-1 | Ruthenium-106 | <3.58E0 | pCi/g dry | 3.58E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14391-65-2 | Silver-108m | <2.99E-1 | pCi/g dry | 2.99E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14109-32-1 | Cadmium-109 | <9.15E0 | pCi/g dry | 9.15E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| | Silver-110 | <3.13E-1 | pCi/g dry | 3.13E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14391-76-5 | Silver-110m | <3.14E-1 | pCi/g dry | 3.14E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13966-06-8 | Tin-113 | <4.44E-1 | pCi/g dry | 4.44E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14683-10-4 | Antimony-124 | <3.75E-1 | pCi/g dry | 3.75E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14234-35-6 | Antimony-125 | <9.29E-1 | pCi/g dry | 9.29E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 15756-32-8 | Antimony-126 | <2.93E-1 | pCi/g dry | 2.93E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 15832-50-5 | Tin-126 | <7.46E-1 | pCi/g dry | 7.46E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 10043-66-0 | Iodine-131 | <3.91E-1 | pCi/g dry | 3.91E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13981-41-4 | Barium-133 | <5.49E-1 | pCi/g dry | 5.49E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13967-70-9 | Cesium-134 | <3.76E-1 | pCi/g dry | 3.76E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 10045-97-3 | Cesium-137 | <3.48E-1 | pCi/g dry | 3.48E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13982-30-4 | Cerium-139 | <3.60E-1 | pCi/g dry | 3.60E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14762-78-8 | Cerium-144 | <2.62E0 | pCi/g dry | 2.62E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14683-23-9 | Europium-152 | <1.30E0 | pCi/g dry | 1.30E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14276-65-4 | Gadolinium-153 | <9.89E-1 | pCi/g dry | 9.89E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 15585-10-1 | Europium-154 | <6.89E-1 | pCi/g dry | 6.89E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14391-16-3 | Europium-155 | <1.06E0 | pCi/g dry | 1.06E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13982-78-0 | Mercury-203 | <3.94E-1 | pCi/g dry | 3.94E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14913-50-9 | Thallium-208 | <4.26E-1 | pCi/g dry | 4.26E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14331-79-4 | Bismuth-210 | <6.13E-1 | pCi/g dry | 6.13E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14255-04-0 | Lead-210 | <4.36E1 | pCi/g dry | 4.36E1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| | Bismuth-211 | <6.90E0 | pCi/g dry | 6.90E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| | Lead-211 | <9.43E0 | pCi/g dry | 9.43E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 15092-94-1 | Lead-212 | <8.37E-1 | pCi/g dry | 8.37E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14733-03-0 | Bismuth-214 | <8.13E-1 | pCi/g dry | 8.13E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 15067-28-4 | Lead-214 | <8.94E-1 | pCi/g dry | 8.94E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14835-02-0 | Radon-219 | <3.10E0 | pCi/g dry | 3.10E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 22481-48-7 | Radon-220 | <2.80E2 | pCi/g dry | 2.80E2 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 28522-20-5 | Radon-221 | <1.44E0 | pCi/g dry | 1.44E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 15756-98-6 | Francium-223 | <1.06E1 | pCi/g dry | 1.06E1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 15623-45-7 | Radium-223 | <2.24E0 | pCi/g dry | 2.24E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13233-32-4 | Radium-224 | <9.08E0 | pCi/g dry | 9.08E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13982-63-3 | Radium-226 | <8.87E0 | pCi/g dry | 8.87E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 15623-47-9 | Thorium-227 | <3.22E0 | pCi/g dry | 3.22E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |

# GEA/Soil

| CAS # | Analyte | Results | Units | MDA | UNC | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ64B** | | **Lab ID:** | **0805020-31** | | | | |
| 14331-83-0 | Actinium-228 | <1.39E0 | pCi/g dry | 1.39E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14274-82-9 | Thorium-228 | <1.16E2 | pCi/g dry | 1.16E2 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14269-63-7 | Thorium-230 | <1.19E2 | pCi/g dry | 1.19E2 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14331-85-2 | Protactinium-231 | <1.34E1 | pCi/g dry | 1.34E1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14932-40-2 | Thorium-231 | <7.17E1 | pCi/g dry | 7.17E1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 7440-29-1 | Thorium-232 | <2.97E2 | pCi/g dry | 2.97E2 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13981-14-1 | Protactinium-233 | <8.24E-1 | pCi/g dry | 8.24E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 15100-28-4 | Protactinium-234 | <1.29E0 | pCi/g dry | 1.29E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| | Protactinium-234m | <4.19E1 | pCi/g dry | 4.19E1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 15065-10-8 | Thorium-234 | <1.03E1 | pCi/g dry | 1.03E1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 15117-96-1 | Uranium 235 | <2.76E0 | pCi/g dry | 2.76E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13994-20-2 | Neptunium-237 | <2.76E0 | pCi/g dry | 2.76E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13981-16-3 | Plutonium-238 | <4.09E3 | pCi/g dry | 4.09E3 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| | Uranium 238 | <5.79E0 | pCi/g dry | 5.79E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 15117-48-3 | Plutonium-239 | <4.20E3 | pCi/g dry | 4.20E3 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14119-33-6 | Plutonium-240 | <4.11E3 | pCi/g dry | 4.11E3 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14596-10-2 | Americium-241 | <1.51E0 | pCi/g dry | 1.51E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14993-75-0 | Americium-243 | <6.50E-1 | pCi/g dry | 6.50E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 15757-87-6 | Curium-243 | <1.26E0 | pCi/g dry | 1.26E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 15621-76-8 | Curium-245 | <1.03E0 | pCi/g dry | 1.03E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| **HEIS No.** | **B1VJ64A** | | **Lab ID:** | **0805020-32** | | | | |
| 13966-32-0 | Sodium-22 | <3.28E-1 | pCi/g dry | 3.28E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13966-00-2 | Potassium-40 | 2.38E1 | pCi/g dry | 2.78E0 | 1.3 | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14392-02-0 | Chromium-51 | <2.52E0 | pCi/g dry | 2.52E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13966-31-9 | Manganese-54 | <2.58E-1 | pCi/g dry | 2.58E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13981-50-5 | Cobalt-57 | <2.71E-1 | pCi/g dry | 2.71E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14596-12-4 | Iron-59 | <5.58E-1 | pCi/g dry | 5.58E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 10198-40-0 | Cobalt-60 | <2.78E-1 | pCi/g dry | 2.78E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13982-39-3 | Zinc-65 | <6.66E-1 | pCi/g dry | 6.66E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14265-71-5 | Selenium-75 | <4.33E-1 | pCi/g dry | 4.33E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 17056-36-9 | Rubidium-83 | <5.14E-1 | pCi/g dry | 5.14E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13967-73-2 | Strontium-85 | <3.51E-1 | pCi/g dry | 3.51E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14932-53-7 | Rubidium-86 | <3.09E0 | pCi/g dry | 3.09E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13982-36-0 | Yttrium-88 | <2.18E-1 | pCi/g dry | 2.18E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14681-63-1 | Niobium-94 | <2.61E-1 | pCi/g dry | 2.61E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13967-76-5 | Niobium-95 | <2.76E-1 | pCi/g dry | 2.76E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| | Niobium-95m | <1.28E0 | pCi/g dry | 1.28E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| | Technetium-95m | <4.23E-1 | pCi/g dry | 4.23E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13967-71-0 | Zirconium-95 | <4.92E-1 | pCi/g dry | 4.92E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| | Technetium-99m | <2.68E-1 | pCi/g dry | 2.68E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13968-53-1 | Ruthenium-103 | <2.76E-1 | pCi/g dry | 2.76E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13967-48-1 | Ruthenium-106 | <2.52E0 | pCi/g dry | 2.52E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14391-65-2 | Silver-108m | <2.74E-1 | pCi/g dry | 2.74E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14109-32-1 | Cadmium-109 | <7.22E0 | pCi/g dry | 7.22E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| | Silver-110 | <2.84E-1 | pCi/g dry | 2.84E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14391-76-5 | Silver-110m | <2.84E-1 | pCi/g dry | 2.84E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13966-06-8 | Tin-113 | <4.07E-1 | pCi/g dry | 4.07E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14683-10-4 | Antimony-124 | <2.82E-1 | pCi/g dry | 2.82E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |

# GEA/Soil

| CAS # | Analyte | Results | Units | MDA | UNC | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ64A** | | **Lab ID:** | **0805020-32** | | | | |
| 14234-35-6 | Antimony-125 | <8.69E-1 | pCi/g dry | 8.69E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 15756-32-8 | Antimony-126 | <2.61E-1 | pCi/g dry | 2.61E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 15832-50-5 | Tin-126 | <5.67E-1 | pCi/g dry | 5.67E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 10043-66-0 | Iodine-131 | <3.17E-1 | pCi/g dry | 3.17E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13981-41-4 | Barium-133 | <5.12E-1 | pCi/g dry | 5.12E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13967-70-9 | Cesium-134 | <3.06E-1 | pCi/g dry | 3.06E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 10045-97-3 | Cesium-137 | <3.19E-1 | pCi/g dry | 3.19E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13982-30-4 | Cerium-139 | <3.16E-1 | pCi/g dry | 3.16E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14762-78-8 | Cerium-144 | <2.20E0 | pCi/g dry | 2.20E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14683-23-9 | Europium-152 | <1.10E0 | pCi/g dry | 1.10E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14276-65-4 | Gadolinium-153 | <8.04E-1 | pCi/g dry | 8.04E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 15585-10-1 | Europium-154 | <5.83E-1 | pCi/g dry | 5.83E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14391-16-3 | Europium-155 | <7.97E-1 | pCi/g dry | 7.97E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13982-78-0 | Mercury-203 | <3.41E-1 | pCi/g dry | 3.41E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14913-50-9 | Thallium-208 | <3.31E-1 | pCi/g dry | 3.31E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14331-79-4 | Bismuth-210 | <5.19E-1 | pCi/g dry | 5.19E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14255-04-0 | Lead-210 | <1.01E2 | pCi/g dry | 1.01E2 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| | Bismuth-211 | <6.58E0 | pCi/g dry | 6.58E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| | Lead-211 | <8.99E0 | pCi/g dry | 8.99E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 15092-94-1 | Lead-212 | 8.06E-1 | pCi/g dry | 6.84E-1 | 0.157 | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14733-03-0 | Bismuth-214 | <7.10E-1 | pCi/g dry | 7.10E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 15067-28-4 | Lead-214 | <8.22E-1 | pCi/g dry | 8.22E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14835-02-0 | Radon-219 | <2.73E0 | pCi/g dry | 2.73E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 22481-48-7 | Radon-220 | <2.23E2 | pCi/g dry | 2.23E2 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 28522-20-5 | Radon-221 | <1.24E0 | pCi/g dry | 1.24E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 15756-98-6 | Francium-223 | <9.36E0 | pCi/g dry | 9.36E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 15623-45-7 | Radium-223 | <1.94E0 | pCi/g dry | 1.94E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13233-32-4 | Radium-224 | <8.13E0 | pCi/g dry | 8.13E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13982-63-3 | Radium-226 | <7.69E0 | pCi/g dry | 7.69E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 15623-47-9 | Thorium-227 | <2.87E0 | pCi/g dry | 2.87E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14331-83-0 | Actinium-228 | <1.27E0 | pCi/g dry | 1.27E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14274-82-9 | Thorium-228 | <9.73E1 | pCi/g dry | 9.73E1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14269-63-7 | Thorium-230 | <1.06E2 | pCi/g dry | 1.06E2 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14331-85-2 | Protactinium-231 | <1.11E1 | pCi/g dry | 1.11E1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14932-40-2 | Thorium-231 | <5.57E1 | pCi/g dry | 5.57E1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 7440-29-1 | Thorium-232 | <3.34E2 | pCi/g dry | 3.34E2 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13981-14-1 | Protactinium-233 | <7.03E-1 | pCi/g dry | 7.03E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 15100-28-4 | Protactinium-234 | <1.02E0 | pCi/g dry | 1.02E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| | Protactinium-234m | <3.74E1 | pCi/g dry | 3.74E1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 15065-10-8 | Thorium-234 | <9.36E0 | pCi/g dry | 9.36E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 15117-96-1 | Uranium 235 | <2.28E0 | pCi/g dry | 2.28E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13994-20-2 | Neptunium-237 | <2.08E0 | pCi/g dry | 2.08E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 13981-16-3 | Plutonium-238 | <3.19E3 | pCi/g dry | 3.19E3 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| | Uranium 238 | <4.85E0 | pCi/g dry | 4.85E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 15117-48-3 | Plutonium-239 | <3.87E3 | pCi/g dry | 3.87E3 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14119-33-6 | Plutonium-240 | <3.24E3 | pCi/g dry | 3.24E3 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14596-10-2 | Americium-241 | <1.63E0 | pCi/g dry | 1.63E0 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 14993-75-0 | Americium-243 | <5.93E-1 | pCi/g dry | 5.93E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |
| 15757-87-6 | Curium-243 | <9.88E-1 | pCi/g dry | 9.88E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |

# GEA/Soil

| CAS # | Analyte | Results | Units | MDA | UNC | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ64A** | | **Lab ID:** | **0805020-32** | | | | |
| 15621-76-8 | Curium-245 | <8.12E-1 | pCi/g dry | 8.12E-1 | | 6/25/08 | 8F20002 | AGG-RRL-001 |

# Total Alpha Total Beta/Acid Extract

| CAS # | Analyte | Results | Units | MDA | UNC | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ54B** | | **Lab ID:** | **0805020-01** | | | | |
| 12587-47-2 | Gross Beta | 2.34E2 | pCi/g dry | 1.30E1 | 7.05 | 7/02/08 | 8G02015 | AGG-RRL-002 |
| 12587-46-1 | Gross Alpha | <5.25E0 | pCi/g dry | 5.25E0 | | 7/02/08 | 8G02015 | AGG-RRL-002 |
| **HEIS No.** | **B1VJ55C** | | **Lab ID:** | **0805020-05** | | | | |
| 12587-47-2 | Gross Beta | <1.30E1 | pCi/g dry | 1.30E1 | | 7/02/08 | 8G02015 | AGG-RRL-002 |
| 12587-46-1 | Gross Alpha | <5.25E0 | pCi/g dry | 5.25E0 | | 7/02/08 | 8G02015 | AGG-RRL-002 |
| **HEIS No.** | **B1VJ56A** | | **Lab ID:** | **0805020-07** | | | | |
| 12587-47-2 | Gross Beta | <1.30E1 | pCi/g dry | 1.30E1 | | 7/02/08 | 8G02015 | AGG-RRL-002 |
| 12587-46-1 | Gross Alpha | <5.25E0 | pCi/g dry | 5.25E0 | | 7/02/08 | 8G02015 | AGG-RRL-002 |
| **HEIS No.** | **B1VJ56B** | | **Lab ID:** | **0805020-08** | | | | |
| 12587-47-2 | Gross Beta | <1.30E1 | pCi/g dry | 1.30E1 | | 7/02/08 | 8G02015 | AGG-RRL-002 |
| 12587-46-1 | Gross Alpha | <5.25E0 | pCi/g dry | 5.25E0 | | 7/02/08 | 8G02015 | AGG-RRL-002 |
| **HEIS No.** | **B1VJ56C** | | **Lab ID:** | **0805020-09** | | | | |
| 12587-47-2 | Gross Beta | <1.30E1 | pCi/g dry | 1.30E1 | | 7/02/08 | 8G02015 | AGG-RRL-002 |
| 12587-46-1 | Gross Alpha | <5.25E0 | pCi/g dry | 5.25E0 | | 7/02/08 | 8G02015 | AGG-RRL-002 |
| **HEIS No.** | **B1VJ58C** | | **Lab ID:** | **0805020-10** | | | | |
| 12587-47-2 | Gross Beta | <1.30E1 | pCi/g dry | 1.30E1 | | 7/02/08 | 8G02015 | AGG-RRL-002 |
| 12587-46-1 | Gross Alpha | <5.25E0 | pCi/g dry | 5.25E0 | | 7/02/08 | 8G02015 | AGG-RRL-002 |
| **HEIS No.** | **B1VJ58B** | | **Lab ID:** | **0805020-11** | | | | |
| 12587-47-2 | Gross Beta | <1.30E1 | pCi/g dry | 1.30E1 | | 7/02/08 | 8G02015 | AGG-RRL-002 |
| 12587-46-1 | Gross Alpha | <5.25E0 | pCi/g dry | 5.25E0 | | 7/02/08 | 8G02015 | AGG-RRL-002 |
| **HEIS No.** | **B1VJ58A** | | **Lab ID:** | **0805020-12** | | | | |
| 12587-47-2 | Gross Beta | <1.30E1 | pCi/g dry | 1.30E1 | | 7/02/08 | 8G02015 | AGG-RRL-002 |
| 12587-46-1 | Gross Alpha | <5.25E0 | pCi/g dry | 5.25E0 | | 7/02/08 | 8G02015 | AGG-RRL-002 |
| **HEIS No.** | **B1VJ59C** | | **Lab ID:** | **0805020-14** | | | | |
| 12587-47-2 | Gross Beta | <1.30E1 | pCi/g dry | 1.30E1 | | 7/02/08 | 8G02015 | AGG-RRL-002 |
| 12587-46-1 | Gross Alpha | <5.25E0 | pCi/g dry | 5.25E0 | | 7/02/08 | 8G02015 | AGG-RRL-002 |
| **HEIS No.** | **B1VJ59B** | | **Lab ID:** | **0805020-15** | | | | |
| 12587-47-2 | Gross Beta | <1.30E1 | pCi/g dry | 1.30E1 | | 7/02/08 | 8G02015 | AGG-RRL-002 |
| 12587-46-1 | Gross Alpha | <5.25E0 | pCi/g dry | 5.25E0 | | 7/02/08 | 8G02015 | AGG-RRL-002 |
| **HEIS No.** | **B1VJ59A** | | **Lab ID:** | **0805020-16** | | | | |
| 12587-47-2 | Gross Beta | <1.30E1 | pCi/g dry | 1.30E1 | | 7/02/08 | 8G02015 | AGG-RRL-002 |
| 12587-46-1 | Gross Alpha | <5.25E0 | pCi/g dry | 5.25E0 | | 7/02/08 | 8G02015 | AGG-RRL-002 |
| **HEIS No.** | **B1VJ60C** | | **Lab ID:** | **0805020-18** | | | | |
| 12587-47-2 | Gross Beta | <1.30E1 | pCi/g dry | 1.30E1 | | 7/02/08 | 8G02015 | AGG-RRL-002 |
| 12587-46-1 | Gross Alpha | <5.25E0 | pCi/g dry | 5.25E0 | | 7/02/08 | 8G02015 | AGG-RRL-002 |
| **HEIS No.** | **B1VJ60B** | | **Lab ID:** | **0805020-19** | | | | |
| 12587-47-2 | Gross Beta | <1.30E1 | pCi/g dry | 1.30E1 | | 7/02/08 | 8G02015 | AGG-RRL-002 |
| 12587-46-1 | Gross Alpha | <5.25E0 | pCi/g dry | 5.25E0 | | 7/02/08 | 8G02015 | AGG-RRL-002 |
| **HEIS No.** | **B1VJ60A** | | **Lab ID:** | **0805020-20** | | | | |
| 12587-47-2 | Gross Beta | <1.30E1 | pCi/g dry | 1.30E1 | | 7/02/08 | 8G02015 | AGG-RRL-002 |
| 12587-46-1 | Gross Alpha | <5.25E0 | pCi/g dry | 5.25E0 | | 7/02/08 | 8G02015 | AGG-RRL-002 |
| **HEIS No.** | **B1VJ61C** | | **Lab ID:** | **0805020-22** | | | | |
| 12587-47-2 | Gross Beta | <1.30E1 | pCi/g dry | 1.30E1 | | 7/02/08 | 8G02015 | AGG-RRL-002 |
| 12587-46-1 | Gross Alpha | <5.25E0 | pCi/g dry | 5.25E0 | | 7/02/08 | 8G02015 | AGG-RRL-002 |
| **HEIS No.** | **B1VJ61B** | | **Lab ID:** | **0805020-23** | | | | |
| 12587-47-2 | Gross Beta | <1.30E1 | pCi/g dry | 1.30E1 | | 7/02/08 | 8G02015 | AGG-RRL-002 |

# Total Alpha Total Beta/Acid Extract

| CAS # | Analyte | Results | Units | MDA | UNC | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ61B** | | **Lab ID:** | **0805020-23** | | | | |
| 12587-46-1 | Gross Alpha | <5.25E0 | pCi/g dry | 5.25E0 | | 7/02/08 | 8G02015 | AGG-RRL-002 |
| **HEIS No.** | **B1VJ61A** | | **Lab ID:** | **0805020-24** | | | | |
| 12587-47-2 | Gross Beta | <1.30E1 | pCi/g dry | 1.30E1 | | 7/02/08 | 8G02015 | AGG-RRL-002 |
| 12587-46-1 | Gross Alpha | <5.25E0 | pCi/g dry | 5.25E0 | | 7/02/08 | 8G02015 | AGG-RRL-002 |
| **HEIS No.** | **B1VJ62C** | | **Lab ID:** | **0805020-26** | | | | |
| 12587-47-2 | Gross Beta | <1.30E1 | pCi/g dry | 1.30E1 | | 7/02/08 | 8G02015 | AGG-RRL-002 |
| 12587-46-1 | Gross Alpha | <5.25E0 | pCi/g dry | 5.25E0 | | 7/02/08 | 8G02015 | AGG-RRL-002 |
| **HEIS No.** | **B1VJ62B** | | **Lab ID:** | **0805020-27** | | | | |
| 12587-47-2 | Gross Beta | <1.30E1 | pCi/g dry | 1.30E1 | | 7/02/08 | 8G02015 | AGG-RRL-002 |
| 12587-46-1 | Gross Alpha | <5.25E0 | pCi/g dry | 5.25E0 | | 7/02/08 | 8G02015 | AGG-RRL-002 |
| **HEIS No.** | **B1VJ62A** | | **Lab ID:** | **0805020-28** | | | | |
| 12587-47-2 | Gross Beta | <1.30E1 | pCi/g dry | 1.30E1 | | 7/02/08 | 8G02015 | AGG-RRL-002 |
| 12587-46-1 | Gross Alpha | <5.25E0 | pCi/g dry | 5.25E0 | | 7/02/08 | 8G02015 | AGG-RRL-002 |
| **HEIS No.** | **B1VJ64C** | | **Lab ID:** | **0805020-30** | | | | |
| 12587-47-2 | Gross Beta | <1.30E1 | pCi/g dry | 1.30E1 | | 7/02/08 | 8G02015 | AGG-RRL-002 |
| 12587-46-1 | Gross Alpha | <5.25E0 | pCi/g dry | 5.25E0 | | 7/02/08 | 8G02015 | AGG-RRL-002 |
| **HEIS No.** | **B1VJ64B** | | **Lab ID:** | **0805020-31** | | | | |
| 12587-47-2 | Gross Beta | <1.30E1 | pCi/g dry | 1.30E1 | | 7/02/08 | 8G02015 | AGG-RRL-002 |
| 12587-46-1 | Gross Alpha | <5.25E0 | pCi/g dry | 5.25E0 | | 7/02/08 | 8G02015 | AGG-RRL-002 |
| **HEIS No.** | **B1VJ64A** | | **Lab ID:** | **0805020-32** | | | | |
| 12587-47-2 | Gross Beta | <1.30E1 | pCi/g dry | 1.30E1 | | 7/02/08 | 8G02015 | AGG-RRL-002 |
| 12587-46-1 | Gross Alpha | <5.25E0 | pCi/g dry | 5.25E0 | | 7/02/08 | 8G02015 | AGG-RRL-002 |

# Total Alpha Total Beta/Water Extract

| CAS # | Analyte | Results | Units | MDA | UNC | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ54B** | | **Lab ID:** | **0805020-01** | | | | |
| 12587-47-2 | Gross Beta | <1.21E1 | pCi/g dry | 1.21E1 | | 7/01/08 | 8G02003 | AGG-RRL-002 |
| 12587-46-1 | Gross Alpha | <5.56E0 | pCi/g dry | 5.56E0 | | 7/01/08 | 8G02003 | AGG-RRL-002 |
| **HEIS No.** | **B1VJ55C** | | **Lab ID:** | **0805020-05** | | | | |
| 12587-47-2 | Gross Beta | <1.21E1 | pCi/g dry | 1.21E1 | | 7/01/08 | 8G02003 | AGG-RRL-002 |
| 12587-46-1 | Gross Alpha | <5.56E0 | pCi/g dry | 5.56E0 | | 7/01/08 | 8G02003 | AGG-RRL-002 |
| **HEIS No.** | **B1VJ56A** | | **Lab ID:** | **0805020-07** | | | | |
| 12587-47-2 | Gross Beta | <1.21E1 | pCi/g dry | 1.21E1 | | 7/01/08 | 8G02003 | AGG-RRL-002 |
| 12587-46-1 | Gross Alpha | <5.56E0 | pCi/g dry | 5.56E0 | | 7/01/08 | 8G02003 | AGG-RRL-002 |
| **HEIS No.** | **B1VJ56B** | | **Lab ID:** | **0805020-08** | | | | |
| 12587-47-2 | Gross Beta | <1.21E1 | pCi/g dry | 1.21E1 | | 7/01/08 | 8G02003 | AGG-RRL-002 |
| 12587-46-1 | Gross Alpha | <5.56E0 | pCi/g dry | 5.56E0 | | 7/01/08 | 8G02003 | AGG-RRL-002 |
| **HEIS No.** | **B1VJ56C** | | **Lab ID:** | **0805020-09** | | | | |
| 12587-47-2 | Gross Beta | <1.21E1 | pCi/g dry | 1.21E1 | | 7/01/08 | 8G02003 | AGG-RRL-002 |
| 12587-46-1 | Gross Alpha | <5.56E0 | pCi/g dry | 5.56E0 | | 7/01/08 | 8G02003 | AGG-RRL-002 |
| **HEIS No.** | **B1VJ58C** | | **Lab ID:** | **0805020-10** | | | | |
| 12587-47-2 | Gross Beta | <1.21E1 | pCi/g dry | 1.21E1 | | 7/01/08 | 8G02003 | AGG-RRL-002 |
| 12587-46-1 | Gross Alpha | <5.56E0 | pCi/g dry | 5.56E0 | | 7/01/08 | 8G02003 | AGG-RRL-002 |
| **HEIS No.** | **B1VJ58B** | | **Lab ID:** | **0805020-11** | | | | |
| 12587-47-2 | Gross Beta | <1.21E1 | pCi/g dry | 1.21E1 | | 7/01/08 | 8G02003 | AGG-RRL-002 |
| 12587-46-1 | Gross Alpha | <5.56E0 | pCi/g dry | 5.56E0 | | 7/01/08 | 8G02003 | AGG-RRL-002 |
| **HEIS No.** | **B1VJ58A** | | **Lab ID:** | **0805020-12** | | | | |
| 12587-47-2 | Gross Beta | <1.21E1 | pCi/g dry | 1.21E1 | | 7/01/08 | 8G02003 | AGG-RRL-002 |
| 12587-46-1 | Gross Alpha | <5.56E0 | pCi/g dry | 5.56E0 | | 7/01/08 | 8G02003 | AGG-RRL-002 |
| **HEIS No.** | **B1VJ59C** | | **Lab ID:** | **0805020-14** | | | | |
| 12587-47-2 | Gross Beta | <1.21E1 | pCi/g dry | 1.21E1 | | 7/01/08 | 8G02003 | AGG-RRL-002 |
| 12587-46-1 | Gross Alpha | <5.56E0 | pCi/g dry | 5.56E0 | | 7/01/08 | 8G02003 | AGG-RRL-002 |
| **HEIS No.** | **B1VJ59B** | | **Lab ID:** | **0805020-15** | | | | |
| 12587-47-2 | Gross Beta | <1.21E1 | pCi/g dry | 1.21E1 | | 7/01/08 | 8G02003 | AGG-RRL-002 |
| 12587-46-1 | Gross Alpha | <5.56E0 | pCi/g dry | 5.56E0 | | 7/01/08 | 8G02003 | AGG-RRL-002 |
| **HEIS No.** | **B1VJ59A** | | **Lab ID:** | **0805020-16** | | | | |
| 12587-47-2 | Gross Beta | <1.21E1 | pCi/g dry | 1.21E1 | | 7/01/08 | 8G02003 | AGG-RRL-002 |
| 12587-46-1 | Gross Alpha | <5.56E0 | pCi/g dry | 5.56E0 | | 7/01/08 | 8G02003 | AGG-RRL-002 |
| **HEIS No.** | **B1VJ60C** | | **Lab ID:** | **0805020-18** | | | | |
| 12587-47-2 | Gross Beta | <1.21E1 | pCi/g dry | 1.21E1 | | 7/01/08 | 8G02003 | AGG-RRL-002 |
| 12587-46-1 | Gross Alpha | <5.56E0 | pCi/g dry | 5.56E0 | | 7/01/08 | 8G02003 | AGG-RRL-002 |
| **HEIS No.** | **B1VJ60B** | | **Lab ID:** | **0805020-19** | | | | |
| 12587-47-2 | Gross Beta | <1.21E1 | pCi/g dry | 1.21E1 | | 7/01/08 | 8G02003 | AGG-RRL-002 |
| 12587-46-1 | Gross Alpha | <5.56E0 | pCi/g dry | 5.56E0 | | 7/01/08 | 8G02003 | AGG-RRL-002 |
| **HEIS No.** | **B1VJ60A** | | **Lab ID:** | **0805020-20** | | | | |
| 12587-47-2 | Gross Beta | <1.21E1 | pCi/g dry | 1.21E1 | | 7/01/08 | 8G02003 | AGG-RRL-002 |
| 12587-46-1 | Gross Alpha | <5.56E0 | pCi/g dry | 5.56E0 | | 7/01/08 | 8G02003 | AGG-RRL-002 |
| **HEIS No.** | **B1VJ61C** | | **Lab ID:** | **0805020-22** | | | | |
| 12587-47-2 | Gross Beta | <1.21E1 | pCi/g dry | 1.21E1 | | 7/01/08 | 8G02003 | AGG-RRL-002 |
| 12587-46-1 | Gross Alpha | <5.56E0 | pCi/g dry | 5.56E0 | | 7/01/08 | 8G02003 | AGG-RRL-002 |
| **HEIS No.** | **B1VJ61B** | | **Lab ID:** | **0805020-23** | | | | |
| 12587-47-2 | Gross Beta | <1.21E1 | pCi/g dry | 1.21E1 | | 7/01/08 | 8G02003 | AGG-RRL-002 |

# Total Alpha Total Beta/Water Extract

| CAS # | Analyte | Results | Units | MDA | UNC | Analyzed | Batch | Method |
|---|---|---|---|---|---|---|---|---|
| **HEIS No.** | **B1VJ61B** | | **Lab ID:** | **0805020-23** | | | | |
| 12587-46-1 | Gross Alpha | <5.56E0 | pCi/g dry | 5.56E0 | | 7/01/08 | 8G02003 | AGG-RRL-002 |
| **HEIS No.** | **B1VJ61A** | | **Lab ID:** | **0805020-24** | | | | |
| 12587-47-2 | Gross Beta | <1.21E1 | pCi/g dry | 1.21E1 | | 7/01/08 | 8G02003 | AGG-RRL-002 |
| 12587-46-1 | Gross Alpha | <5.56E0 | pCi/g dry | 5.56E0 | | 7/01/08 | 8G02003 | AGG-RRL-002 |
| **HEIS No.** | **B1VJ62C** | | **Lab ID:** | **0805020-26** | | | | |
| 12587-47-2 | Gross Beta | <1.21E1 | pCi/g dry | 1.21E1 | | 7/01/08 | 8G02003 | AGG-RRL-002 |
| 12587-46-1 | Gross Alpha | <5.56E0 | pCi/g dry | 5.56E0 | | 7/01/08 | 8G02003 | AGG-RRL-002 |
| **HEIS No.** | **B1VJ62B** | | **Lab ID:** | **0805020-27** | | | | |
| 12587-47-2 | Gross Beta | <1.21E1 | pCi/g dry | 1.21E1 | | 7/01/08 | 8G02003 | AGG-RRL-002 |
| 12587-46-1 | Gross Alpha | <5.56E0 | pCi/g dry | 5.56E0 | | 7/01/08 | 8G02003 | AGG-RRL-002 |
| **HEIS No.** | **B1VJ62A** | | **Lab ID:** | **0805020-28** | | | | |
| 12587-47-2 | Gross Beta | <1.21E1 | pCi/g dry | 1.21E1 | | 7/01/08 | 8G02003 | AGG-RRL-002 |
| 12587-46-1 | Gross Alpha | <5.56E0 | pCi/g dry | 5.56E0 | | 7/01/08 | 8G02003 | AGG-RRL-002 |
| **HEIS No.** | **B1VJ64C** | | **Lab ID:** | **0805020-30** | | | | |
| 12587-47-2 | Gross Beta | <1.21E1 | pCi/g dry | 1.21E1 | | 7/01/08 | 8G02003 | AGG-RRL-002 |
| 12587-46-1 | Gross Alpha | <5.56E0 | pCi/g dry | 5.56E0 | | 7/01/08 | 8G02003 | AGG-RRL-002 |
| **HEIS No.** | **B1VJ64B** | | **Lab ID:** | **0805020-31** | | | | |
| 12587-47-2 | Gross Beta | <1.21E1 | pCi/g dry | 1.21E1 | | 7/01/08 | 8G02003 | AGG-RRL-002 |
| 12587-46-1 | Gross Alpha | <5.56E0 | pCi/g dry | 5.56E0 | | 7/01/08 | 8G02003 | AGG-RRL-002 |
| **HEIS No.** | **B1VJ64A** | | **Lab ID:** | **0805020-32** | | | | |
| 12587-47-2 | Gross Beta | <1.21E1 | pCi/g dry | 1.21E1 | | 7/01/08 | 8G02003 | AGG-RRL-002 |
| 12587-46-1 | Gross Alpha | <5.56E0 | pCi/g dry | 5.56E0 | | 7/01/08 | 8G02003 | AGG-RRL-002 |

# Wet Chemistry - Quality Control
## Environmental Science Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 8F26007 - 1:1 Water Extract (pH_EC_Alk)** | | | | | | | | | | |
| **Blank (8F26007-BLK1)** | | | | Prepared & Analyzed: 06/26/08 | | | | | | |
| Specific Conductance (EC) | <1.00E-2 | 1.00E-2 | mS/cm | | | | | | | |
| **Duplicate (8F26007-DUP1)** | | **Source: 0805020-11** | | Prepared & Analyzed: 06/26/08 | | | | | | |
| Specific Conductance (EC) | 1.95E0 | 1.00E-2 | mS/cm | | 2.E0 | | | 2.58 | 35 | |
| **Batch 8F26008 - 1:1 Water Extract (pH_EC_Alk)** | | | | | | | | | | |
| **Blank (8F26008-BLK1)** | | | | Prepared & Analyzed: 06/26/08 | | | | | | |
| Specific Conductance (EC) | <1.00E-2 | 1.00E-2 | mS/cm | | | | | | | |
| **Duplicate (8F26008-DUP1)** | | **Source: 0805020-27** | | Prepared & Analyzed: 06/26/08 | | | | | | |
| Specific Conductance (EC) | 5.24E-1 | 1.00E-2 | mS/cm | | 4.52E-1 | | | 14.8 | 35 | |
| **Batch 8F26009 - 1:1 Water Extract (pH_EC_Alk)** | | | | | | | | | | |
| **Duplicate (8F26009-DUP1)** | | **Source: 0805020-11** | | Prepared & Analyzed: 06/26/08 | | | | | | |
| pH | 9.68E0 | N/A | pH Units | | 9.64E0 | | | 0.414 | 35 | |
| **Duplicate (8F26009-DUP2)** | | **Source: 0805020-19** | | Prepared & Analyzed: 06/26/08 | | | | | | |
| pH | 7.91E0 | N/A | pH Units | | 7.98E0 | | | 0.881 | 35 | |
| **Batch 8F26010 - 1:1 Water Extract (pH_EC_Alk)** | | | | | | | | | | |
| **Duplicate (8F26010-DUP1)** | | **Source: 0805020-27** | | Prepared & Analyzed: 06/26/08 | | | | | | |
| pH | 7.80E0 | N/A | pH Units | | 7.79E0 | | | 0.128 | 35 | |

# Wet Chemistry - Quality Control
## Environmental Science Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 8F30007 - 1:1 Water Extract (pH_EC_Alk)** | | | | | | | | | | |
| **Blank (8F30007-BLK1)** | | | | Prepared & Analyzed: 06/30/08 | | | | | | |
| Alkalinity as CaCO3 | <2.35E1 | 2.35E1 | ug/g wet | | | | | | | |
| **Duplicate (8F30007-DUP1)** | | **Source: 0805020-11** | | Prepared & Analyzed: 06/30/08 | | | | | | |
| Alkalinity as CaCO3 | 9.39E2 | 2.47E1 | ug/g dry | | 9.25E2 | | | 1.52 | 35 | |
| **Batch 8F30008 - 1:1 Water Extract (pH_EC_Alk)** | | | | | | | | | | |
| **Blank (8F30008-BLK1)** | | | | Prepared & Analyzed: 06/30/08 | | | | | | |
| Alkalinity as CaCO3 | <2.35E1 | 2.35E1 | ug/g wet | | | | | | | |
| **Duplicate (8F30008-DUP1)** | | **Source: 0805020-27** | | Prepared & Analyzed: 06/30/08 | | | | | | |
| Alkalinity as CaCO3 | 3.69E1 | 2.33E1 | ug/g dry | | 3.96E1 | | | 6.89 | 35 | |

# Anions by Ion Chromatography - Quality Control
## Environmental Science Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 8E29005 - 1:1 Water Extract (IC)** | | | | | | | | | | |
| **Blank (8E29005-BLK1)** | | | | Prepared: 05/29/08 Analyzed: 05/31/08 | | | | | | |
| Fluoride | <2.00E-1 | 2.00E-1 | ug/g wet | | | | | | | |
| Chloride | <5.00E-1 | 5.00E-1 | " | | | | | | | |
| Nitrite | <1.00E0 | 1.00E0 | " | | | | | | | |
| Bromide | <1.00E0 | 1.00E0 | " | | | | | | | |
| Nitrate | <1.00E0 | 1.00E0 | " | | | | | | | |
| Sulfate | <1.50E0 | 1.50E0 | " | | | | | | | |
| Phosphate | <1.50E0 | 1.50E0 | " | | | | | | | |
| **Blank (8E29005-BLK2)** | | | | Prepared: 05/29/08 Analyzed: 06/01/08 | | | | | | |
| Fluoride | <2.00E-1 | 2.00E-1 | ug/g wet | | | | | | | |
| Chloride | <5.00E-1 | 5.00E-1 | " | | | | | | | |
| Nitrite | <1.00E0 | 1.00E0 | " | | | | | | | |
| Bromide | <1.00E0 | 1.00E0 | " | | | | | | | |
| Nitrate | <1.00E0 | 1.00E0 | " | | | | | | | |
| Sulfate | <1.50E0 | 1.50E0 | " | | | | | | | |
| Phosphate | <1.50E0 | 1.50E0 | " | | | | | | | |
| **Batch 8F10001 - 1:1 Water Extract (IC)** | | | | | | | | | | |
| **Blank (8F10001-BLK1)** | | | | Prepared & Analyzed: 06/09/08 | | | | | | |
| Fluoride | <2.00E-1 | 2.00E-1 | ug/g wet | | | | | | | |
| Chloride | <5.00E-1 | 5.00E-1 | " | | | | | | | |
| Bromide | <1.00E0 | 1.00E0 | " | | | | | | | |
| Nitrate | <1.00E0 | 1.00E0 | " | | | | | | | |
| Sulfate | <1.50E0 | 1.50E0 | " | | | | | | | |
| Phosphate | <1.50E0 | 1.50E0 | " | | | | | | | |

# Anions by Ion Chromatography - Quality Control
## Environmental Science Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 8F26011 - 1:1 Water Extract (IC)** | | | | | | | | | | |
| **Blank (8F26011-BLK1)** | | | | Prepared: 06/26/08 Analyzed: 06/27/08 | | | | | | |
| Fluoride | <2.00E-1 | 2.00E-1 | ug/g wet | | | | | | | |
| Chloride | <5.00E-1 | 5.00E-1 | " | | | | | | | |
| Nitrite | <1.00E0 | 1.00E0 | " | | | | | | | |
| Bromide | <1.00E0 | 1.00E0 | " | | | | | | | |
| Nitrate | <1.00E0 | 1.00E0 | " | | | | | | | |
| Sulfate | <1.50E0 | 1.50E0 | " | | | | | | | |
| Phosphate | <1.50E0 | 1.50E0 | " | | | | | | | |
| **LCS (8F26011-BS1)** | | | | Prepared: 06/26/08 Analyzed: 06/27/08 | | | | | | |
| Fluoride | 2.07E0 | 2.00E-1 | ug/g wet | 2.001 | | 103 | 80-120 | | | |
| Chloride | 5.12E0 | 5.00E-1 | " | 5.002 | | 102 | 80-120 | | | |
| Nitrite | 9.73E0 | 1.00E0 | " | 10.00 | | 97.3 | 80-120 | | | |
| Bromide | 1.01E1 | 1.00E0 | " | 10.00 | | 101 | 80-120 | | | |
| Nitrate | 1.06E1 | 1.00E0 | " | 10.00 | | 106 | 80-120 | | | |
| Sulfate | 1.55E1 | 1.50E0 | " | 15.00 | | 103 | 80-120 | | | |
| Phosphate | 1.51E1 | 1.50E0 | " | 15.00 | | 101 | 80-120 | | | |
| **Duplicate (8F26011-DUP1)** | **Source: 0805020-11** | | | Prepared: 06/26/08 Analyzed: 07/01/08 | | | | | | |
| Fluoride | 2.03E1 | 2.10E0 | ug/g dry | | 2.0E1 | | | 1.65 | 35 | |
| Chloride | <5.25E0 | 5.25E0 | " | | ND | | | | 35 | |
| Nitrite | <1.05E1 | 1.05E1 | " | | ND | | | | 35 | |
| Bromide | <1.05E1 | 1.05E1 | " | | ND | | | | 35 | |
| Nitrate | 1.93E2 | 1.05E1 | " | | 1.99E2 | | | 3.20 | 35 | |
| Sulfate | 1.83E1 | 1.57E1 | " | | 1.83E1 | | | 0.00842 | 35 | |
| Phosphate | <1.57E1 | 1.57E1 | " | | ND | | | | 35 | |
| **Post Spike (8F26011-PS1)** | **Source: 0805020-01** | | | Prepared: 06/26/08 Analyzed: 06/27/08 | | | | | | |
| Fluoride | 1.97E0 | N/A | ug/mL | 0.8 | 11.6E-1 | 102 | 75-125 | | | |
| Chloride | 2.34E0 | N/A | " | 2 | 42.9E-2 | 95.8 | 75-125 | | | |
| Nitrite | 3.79E0 | N/A | " | 4 | ND | 94.6 | 75-125 | | | |
| Bromide | 3.8E0 | N/A | " | 4 | 15.7E-2 | 91.1 | 75-125 | | | |
| Nitrate | 1.17E1 | N/A | " | 4 | 80.7E-1 | 90.9 | 75-125 | | | |
| Sulfate | 9.59E0 | N/A | " | 6 | 46.7E-1 | 82.1 | 75-125 | | | |
| Phosphate | 6.22E0 | N/A | " | 6 | 90.9E-2 | 88.5 | 75-125 | | | |

# Anions by Ion Chromatography - Quality Control
## Environmental Science Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 8F26016 - 1:1 Water Extract (IC)** | | | | | | | | | | |
| **Blank (8F26016-BLK1)** | | | | Prepared: 06/26/08 Analyzed: 06/27/08 | | | | | | |
| Fluoride | <2.00E-1 | 2.00E-1 | ug/g wet | | | | | | | |
| Chloride | <5.00E-1 | 5.00E-1 | " | | | | | | | |
| Nitrite | <1.00E0 | 1.00E0 | " | | | | | | | |
| Bromide | <1.00E0 | 1.00E0 | " | | | | | | | |
| Nitrate | <1.00E0 | 1.00E0 | " | | | | | | | |
| Sulfate | <1.50E0 | 1.50E0 | " | | | | | | | |
| Phosphate | <1.50E0 | 1.50E0 | " | | | | | | | |
| **LCS (8F26016-BS1)** | | | | Prepared: 06/26/08 Analyzed: 06/27/08 | | | | | | |
| Fluoride | 2.12E0 | 2.00E-1 | ug/g wet | 1.999 | | 106 | 80-120 | | | |
| Chloride | 5.18E0 | 5.00E-1 | " | 4.997 | | 104 | 80-120 | | | |
| Nitrite | 9.87E0 | 1.00E0 | " | 9.993 | | 98.8 | 80-120 | | | |
| Bromide | 1.01E1 | 1.00E0 | " | 9.993 | | 101 | 80-120 | | | |
| Nitrate | 1.08E1 | 1.00E0 | " | 9.993 | | 109 | 80-120 | | | |
| Sulfate | 1.55E1 | 1.50E0 | " | 14.99 | | 104 | 80-120 | | | |
| Phosphate | 1.52E1 | 1.50E0 | " | 14.99 | | 102 | 80-120 | | | |
| **Duplicate (8F26016-DUP1)** | **Source: 0805020-27** | | | Prepared: 06/26/08 Analyzed: 06/27/08 | | | | | | |
| Fluoride | <1.98E0 | 1.98E0 | ug/g dry | | ND | | | | 35 | |
| Chloride | 4.52E1 | 4.96E0 | " | | 4.1E1 | | | 9.84 | 35 | |
| Nitrite | <9.91E0 | 9.91E0 | " | | ND | | | | 35 | |
| Bromide | <9.91E0 | 9.91E0 | " | | ND | | | | 35 | |
| Nitrate | 1.28E1 | 9.91E0 | " | | 1.02E1 | | | 22.4 | 35 | |
| Sulfate | 1.44E2 | 1.49E1 | " | | 1.15E2 | | | 22.0 | 35 | |
| Phosphate | <1.49E1 | 1.49E1 | " | | ND | | | | 35 | |
| **Post Spike (8F26016-PS1)** | **Source: 0805020-32** | | | Prepared: 06/26/08 Analyzed: 06/27/08 | | | | | | |
| Fluoride | 1.37E0 | N/A | ug/mL | 0.8 | 59.1E-2 | 97.5 | 75-125 | | | |
| Chloride | 4.22E0 | N/A | " | 2 | 24.E-1 | 91.1 | 75-125 | | | |
| Nitrite | 3.85E0 | N/A | " | 4 | 27.E-2 | 89.4 | 75-125 | | | |
| Bromide | 3.72E0 | N/A | " | 4 | 11.8E-2 | 89.9 | 75-125 | | | |
| Nitrate | 1.49E1 | N/A | " | 4 | 11.3E0 | 88.8 | 75-125 | | | |
| Sulfate | 7.52E1 | N/A | " | 6 | 72.6E0 | 42.5 | 75-125 | | | |
| Phosphate | 5.69E0 | N/A | " | 6 | 38.2E-2 | 88.5 | 75-125 | | | |

# Total Metals by PNNL-AGG-ICP-AES/Water Extract - Quality Control
## Environmental Science Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 8F30003 - 1:1 Water Extract (ICP/ICPMS)** | | | | | | | | | | |
| **Blank (8F30003-BLK1)** | | | | Prepared: 06/25/08 Analyzed: 06/30/08 | | | | | | |
| Aluminum | <8.58E-2 | 8.58E-2 | ug/g wet | | | | | | | |
| Arsenic | <3.60E-1 | 3.60E-1 | " | | | | | | | |
| Boron | <1.94E0 | 1.94E0 | " | | | | | | | |
| Barium | <8.79E-3 | 8.79E-3 | " | | | | | | | |
| Beryllium | <2.84E-2 | 2.84E-2 | " | | | | | | | |
| Bismuth | <1.88E-1 | 1.88E-1 | " | | | | | | | |
| Calcium | <3.87E-1 | 3.87E-1 | " | | | | | | | |
| Cadmium | <2.69E-2 | 2.69E-2 | " | | | | | | | |
| Cobalt | <9.60E-2 | 9.60E-2 | " | | | | | | | |
| Chromium | <3.33E-2 | 3.33E-2 | " | | | | | | | |
| Copper | <8.04E-2 | 8.04E-2 | " | | | | | | | |
| Iron | <1.42E-1 | 1.42E-1 | " | | | | | | | |
| Potassium | <2.33E0 | 2.33E0 | " | | | | | | | |
| Lithium | <5.40E-1 | 5.40E-1 | " | | | | | | | |
| Magnesium | <8.34E-2 | 8.34E-2 | " | | | | | | | |
| Manganese | <1.71E-2 | 1.71E-2 | " | | | | | | | |
| Molybdenum | <1.39E-1 | 1.39E-1 | " | | | | | | | |
| Nickel | <9.33E-2 | 9.33E-2 | " | | | | | | | |
| Phosphorus | <1.03E0 | 1.03E0 | " | | | | | | | |
| Lead | <4.32E-1 | 4.32E-1 | " | | | | | | | |
| Selenium | <1.95E0 | 1.95E0 | " | | | | | | | |
| Strontium | <5.22E-2 | 5.22E-2 | " | | | | | | | |
| Thallium | <1.03E0 | 1.03E0 | " | | | | | | | |
| Vanadium | <4.53E-2 | 4.53E-2 | " | | | | | | | |
| Zinc | <9.27E-2 | 9.27E-2 | " | | | | | | | |
| Sodium | <6.69E-1 | 6.69E-1 | " | | | | | | | |
| Silicon | <1.50E0 | 1.50E0 | " | | | | | | | |
| Sulfur | <3.08E0 | 3.08E0 | " | | | | | | | |
| Titanium | <8.76E-3 | 8.76E-3 | " | | | | | | | |
| Zirconium | <1.50E-1 | 1.50E-1 | " | | | | | | | |
| Silver | <7.71E-2 | 7.71E-2 | " | | | | | | | |
| Rhenium | <1.52E-1 | 1.52E-1 | " | | | | | | | |
| Antimony | <6.33E-1 | 6.33E-1 | " | | | | | | | |

# Total Metals by PNNL-AGG-ICP-AES/Water Extract - Quality Control
## Environmental Science Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 8F30003 - 1:1 Water Extract (ICP/ICPMS)** | | | | | | | | | | |
| **Blank (8F30003-BLK2)** | | | | Prepared: 06/25/08 Analyzed: 06/30/08 | | | | | | |
| Aluminum | <8.58E-2 | 8.58E-2 | ug/g wet | | | | | | | |
| Arsenic | <3.60E-1 | 3.60E-1 | " | | | | | | | |
| Boron | <1.94E0 | 1.94E0 | " | | | | | | | |
| Barium | <8.79E-3 | 8.79E-3 | " | | | | | | | |
| Beryllium | <2.84E-2 | 2.84E-2 | " | | | | | | | |
| Bismuth | <1.88E-1 | 1.88E-1 | " | | | | | | | |
| Calcium | <3.87E-1 | 3.87E-1 | " | | | | | | | |
| Cadmium | <2.69E-2 | 2.69E-2 | " | | | | | | | |
| Cobalt | <9.60E-2 | 9.60E-2 | " | | | | | | | |
| Chromium | <3.33E-2 | 3.33E-2 | " | | | | | | | |
| Copper | <8.04E-2 | 8.04E-2 | " | | | | | | | |
| Iron | <1.42E-1 | 1.42E-1 | " | | | | | | | |
| Potassium | <2.33E0 | 2.33E0 | " | | | | | | | |
| Lithium | <5.40E-1 | 5.40E-1 | " | | | | | | | |
| Magnesium | <8.34E-2 | 8.34E-2 | " | | | | | | | |
| Manganese | <1.71E-2 | 1.71E-2 | " | | | | | | | |
| Molybdenum | <1.39E-1 | 1.39E-1 | " | | | | | | | |
| Nickel | <9.33E-2 | 9.33E-2 | " | | | | | | | |
| Phosphorus | <1.03E0 | 1.03E0 | " | | | | | | | |
| Lead | <4.32E-1 | 4.32E-1 | " | | | | | | | |
| Selenium | <1.95E0 | 1.95E0 | " | | | | | | | |
| Strontium | <5.22E-2 | 5.22E-2 | " | | | | | | | |
| Thallium | <1.03E0 | 1.03E0 | " | | | | | | | |
| Vanadium | <4.53E-2 | 4.53E-2 | " | | | | | | | |
| Zinc | <9.27E-2 | 9.27E-2 | " | | | | | | | |
| Sodium | <6.69E-1 | 6.69E-1 | " | | | | | | | |
| Silicon | <1.50E0 | 1.50E0 | " | | | | | | | |
| Sulfur | <3.08E0 | 3.08E0 | " | | | | | | | |
| Titanium | <8.76E-3 | 8.76E-3 | " | | | | | | | |
| Zirconium | <1.50E-1 | 1.50E-1 | " | | | | | | | |
| Silver | <7.71E-2 | 7.71E-2 | " | | | | | | | |
| Rhenium | <1.52E-1 | 1.52E-1 | " | | | | | | | |
| Antimony | <6.33E-1 | 6.33E-1 | " | | | | | | | |

# Total Metals by PNNL-AGG-ICP-AES/Water Extract - Quality Control
## Environmental Science Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 8F30003 - 1:1 Water Extract (ICP/ICPMS)** | | | | | | | | | | |
| **LCS (8F30003-BS1)** | | | | Prepared: 06/25/08 Analyzed: 06/30/08 | | | | | | |
| Aluminum | 4.78E0 | 8.58E-2 | ug/g wet | 5.002 | | 95.6 | 80-120 | | | |
| Arsenic | 4.70E0 | 3.60E-1 | " | 5.002 | | 94.1 | 80-120 | | | |
| Boron | 4.82E0 | 1.94E0 | " | 5.002 | | 96.4 | 80-120 | | | |
| Barium | 4.75E0 | 8.79E-3 | " | 5.002 | | 95.1 | 80-120 | | | |
| Beryllium | 4.65E0 | 2.84E-2 | " | 5.002 | | 93.0 | 80-120 | | | |
| Bismuth | <1.88E-1 | 1.88E-1 | " | | | | 80-120 | | | |
| Calcium | 4.67E0 | 3.87E-1 | " | 5.002 | | 93.4 | 80-120 | | | |
| Cadmium | 4.64E0 | 2.69E-2 | " | 5.002 | | 92.7 | 80-120 | | | |
| Cobalt | 4.47E0 | 9.60E-2 | " | 5.002 | | 89.3 | 80-120 | | | |
| Chromium | 4.74E0 | 3.33E-2 | " | 5.002 | | 94.8 | 80-120 | | | |
| Copper | 4.83E0 | 8.04E-2 | " | 5.002 | | 96.5 | 80-120 | | | |
| Iron | 4.68E0 | 1.42E-1 | " | 5.002 | | 93.5 | 80-120 | | | |
| Potassium | 4.78E1 | 2.33E0 | " | 50.02 | | 95.6 | 80-120 | | | |
| Lithium | <5.40E-1 | 5.40E-1 | " | | | | 80-120 | | | |
| Magnesium | 4.74E0 | 8.34E-2 | " | 5.002 | | 94.8 | 80-120 | | | |
| Manganese | 4.64E0 | 1.71E-2 | " | 5.002 | | 92.8 | 80-120 | | | |
| Molybdenum | 4.73E0 | 1.39E-1 | " | 5.002 | | 94.6 | 80-120 | | | |
| Nickel | 4.60E0 | 9.33E-2 | " | 5.002 | | 91.9 | 80-120 | | | |
| Phosphorus | <1.03E0 | 1.03E0 | " | | | | 80-120 | | | |
| Lead | 4.60E0 | 4.32E-1 | " | 5.002 | | 92.0 | 80-120 | | | |
| Selenium | 4.81E0 | 1.95E0 | " | 5.002 | | 96.2 | 80-120 | | | |
| Strontium | <5.22E-2 | 5.22E-2 | " | | | | 80-120 | | | |
| Thallium | 4.60E0 | 1.03E0 | " | 5.002 | | 91.9 | 80-120 | | | |
| Vanadium | 4.77E0 | 4.53E-2 | " | 5.002 | | 95.4 | 80-120 | | | |
| Zinc | 4.48E0 | 9.27E-2 | " | 5.002 | | 89.6 | 80-120 | | | |
| Sodium | 5.14E0 | 6.69E-1 | " | 5.002 | | 103 | 80-120 | | | |
| Silicon | 2.77E0 | 1.50E0 | " | 2.501 | | 111 | 80-120 | | | |
| Sulfur | <3.08E0 | 3.08E0 | " | | | | 80-120 | | | |
| Titanium | 4.66E0 | 8.76E-3 | " | 5.002 | | 93.2 | 80-120 | | | |
| Zirconium | <1.50E-1 | 1.50E-1 | " | | | | 80-120 | | | |
| Silver | 4.78E0 | 7.71E-2 | " | 5.002 | | 95.5 | 80-120 | | | |
| Rhenium | <1.52E-1 | 1.52E-1 | " | | | | 80-120 | | | |
| Antimony | 4.75E0 | 6.33E-1 | " | 5.002 | | 95.0 | 80-120 | | | |

# Total Metals by PNNL-AGG-ICP-AES/Water Extract - Quality Control
## Environmental Science Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 8F30003 - 1:1 Water Extract (ICP/ICPMS)** | | | | | | | | | | |
| **LCS (8F30003-BS2)** | | | | Prepared: 06/25/08 Analyzed: 06/30/08 | | | | | | |
| Aluminum | 4.97E0 | 8.58E-2 | ug/g wet | 4.997 | | 99.4 | 80-120 | | | |
| Arsenic | 4.90E0 | 3.60E-1 | " | 4.997 | | 98.0 | 80-120 | | | |
| Boron | 4.97E0 | 1.94E0 | " | 4.997 | | 99.5 | 80-120 | | | |
| Barium | 4.96E0 | 8.79E-3 | " | 4.997 | | 99.4 | 80-120 | | | |
| Beryllium | 4.80E0 | 2.84E-2 | " | 4.997 | | 96.1 | 80-120 | | | |
| Bismuth | <1.88E-1 | 1.88E-1 | " | | | | 80-120 | | | |
| Calcium | 4.86E0 | 3.87E-1 | " | 4.997 | | 97.3 | 80-120 | | | |
| Cadmium | 4.80E0 | 2.69E-2 | " | 4.997 | | 96.0 | 80-120 | | | |
| Cobalt | 4.61E0 | 9.60E-2 | " | 4.997 | | 92.3 | 80-120 | | | |
| Chromium | 4.89E0 | 3.33E-2 | " | 4.997 | | 98.0 | 80-120 | | | |
| Copper | 5.03E0 | 8.04E-2 | " | 4.997 | | 101 | 80-120 | | | |
| Iron | 4.80E0 | 1.42E-1 | " | 4.997 | | 96.0 | 80-120 | | | |
| Potassium | 5.00E1 | 2.33E0 | " | 49.97 | | 100 | 80-120 | | | |
| Lithium | <5.40E-1 | 5.40E-1 | " | | | | 80-120 | | | |
| Magnesium | 4.90E0 | 8.34E-2 | " | 4.997 | | 98.1 | 80-120 | | | |
| Manganese | 4.85E0 | 1.71E-2 | " | 4.997 | | 97.0 | 80-120 | | | |
| Molybdenum | 4.87E0 | 1.39E-1 | " | 4.997 | | 97.5 | 80-120 | | | |
| Nickel | 4.74E0 | 9.33E-2 | " | 4.997 | | 94.8 | 80-120 | | | |
| Phosphorus | <1.03E0 | 1.03E0 | " | | | | 80-120 | | | |
| Lead | 4.75E0 | 4.32E-1 | " | 4.997 | | 95.1 | 80-120 | | | |
| Selenium | 4.94E0 | 1.95E0 | " | 4.997 | | 98.9 | 80-120 | | | |
| Strontium | <5.22E-2 | 5.22E-2 | " | | | | 80-120 | | | |
| Thallium | 4.78E0 | 1.03E0 | " | 4.997 | | 95.7 | 80-120 | | | |
| Vanadium | 4.89E0 | 4.53E-2 | " | 4.997 | | 97.8 | 80-120 | | | |
| Zinc | 4.60E0 | 9.27E-2 | " | 4.997 | | 92.1 | 80-120 | | | |
| Sodium | 5.34E0 | 6.69E-1 | " | 4.997 | | 107 | 80-120 | | | |
| Silicon | 2.85E0 | 1.50E0 | " | 2.498 | | 114 | 80-120 | | | |
| Sulfur | <3.08E0 | 3.08E0 | " | | | | 80-120 | | | |
| Titanium | 4.87E0 | 8.76E-3 | " | 4.997 | | 97.4 | 80-120 | | | |
| Zirconium | <1.50E-1 | 1.50E-1 | " | | | | 80-120 | | | |
| Silver | 4.94E0 | 7.71E-2 | " | 4.997 | | 99.0 | 80-120 | | | |
| Rhenium | <1.52E-1 | 1.52E-1 | " | | | | 80-120 | | | |
| Antimony | 4.93E0 | 6.33E-1 | " | 4.997 | | 98.6 | 80-120 | | | |

# Total Metals by PNNL-AGG-ICP-AES/Water Extract - Quality Control
## Environmental Science Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 8F30003 - 1:1 Water Extract (ICP/ICPMS)** | | | | | | | | | | |
| **Duplicate (8F30003-DUP1)** | | **Source: 0805020-11** | | Prepared: 06/25/08 | Analyzed: 06/30/08 | | | | | |
| Aluminum | 1.87E0 | 9.00E-2 | ug/g dry | | 2.57E0 | | | 31.8 | 35 | |
| Arsenic | 8.91E-1 | 3.78E-1 | " | | 7.7E-1 | | | 14.5 | 35 | |
| Boron | <2.04E0 | 2.04E0 | " | | ND | | | | 35 | |
| Barium | 7.22E-2 | 9.23E-3 | " | | 1.07E-1 | | | 38.7 | 35 | |
| Beryllium | <2.98E-2 | 2.98E-2 | " | | ND | | | | 35 | |
| Bismuth | <1.97E-1 | 1.97E-1 | " | | ND | | | | 35 | |
| Calcium | 1.17E1 | 4.06E-1 | " | | 1.77E1 | | | 40.6 | 35 | |
| Cadmium | <2.82E-2 | 2.82E-2 | " | | ND | | | | 35 | |
| Cobalt | <1.01E-1 | 1.01E-1 | " | | ND | | | | 35 | |
| Chromium | <3.49E-2 | 3.49E-2 | " | | ND | | | | 35 | |
| Copper | 1.28E-1 | 8.44E-2 | " | | 1.24E-1 | | | 3.74 | 35 | |
| Iron | 2.92E0 | 1.49E-1 | " | | 3.9E0 | | | 28.6 | 35 | |
| Potassium | 4.89E0 | 2.44E0 | " | | 4.88E0 | | | 0.308 | 35 | |
| Lithium | <5.67E-1 | 5.67E-1 | " | | ND | | | | 35 | |
| Magnesium | 1.09E0 | 8.75E-2 | " | | 1.58E0 | | | 36.6 | 35 | |
| Manganese | 1.05E-1 | 1.80E-2 | " | | 1.65E-1 | | | 44.4 | 35 | |
| Molybdenum | <1.46E-1 | 1.46E-1 | " | | ND | | | | 35 | |
| Nickel | <9.79E-2 | 9.79E-2 | " | | ND | | | | 35 | |
| Phosphorus | 5.49E0 | 1.08E0 | " | | 5.11E0 | | | 7.17 | 35 | |
| Lead | <4.53E-1 | 4.53E-1 | " | | ND | | | | 35 | |
| Selenium | <2.05E0 | 2.05E0 | " | | ND | | | | 35 | |
| Strontium | <5.48E-2 | 5.48E-2 | " | | ND | | | | 35 | |
| Thallium | <1.08E0 | 1.08E0 | " | | ND | | | | 35 | |
| Vanadium | 3.97E-1 | 4.75E-2 | " | | 3.58E-1 | | | 10.3 | 35 | |
| Zinc | <9.73E-2 | 9.73E-2 | " | | ND | | | | 35 | |
| Sodium | 5.02E2 | 7.02E-1 | " | | 4.95E2 | | | 1.31 | 35 | |
| Silicon | 1.89E1 | 1.57E0 | " | | 2.03E1 | | | 7.00 | 35 | |
| Sulfur | 6.97E0 | 3.23E0 | " | | 7.02E0 | | | 0.729 | 35 | |
| Titanium | 1.66E-1 | 9.19E-3 | " | | 3.05E-1 | | | 58.9 | 35 | |
| Zirconium | <1.57E-1 | 1.57E-1 | " | | ND | | | | 35 | |
| Silver | <8.09E-2 | 8.09E-2 | " | | ND | | | | 35 | |
| Rhenium | <1.59E-1 | 1.59E-1 | " | | ND | | | | 35 | |
| Antimony | <6.64E-1 | 6.64E-1 | " | | ND | | | | 35 | |

# Total Metals by PNNL-AGG-ICP-AES/Water Extract - Quality Control
## Environmental Science Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 8F30003 - 1:1 Water Extract (ICP/ICPMS)** | | | | | | | | | | |
| **Duplicate (8F30003-DUP2)** | | **Source: 0805020-27** | | Prepared: 06/25/08 | Analyzed: 06/30/08 | | | | | |
| Aluminum | <8.51E-2 | 8.51E-2 | ug/g dry | | ND | | | | 35 | |
| Arsenic | <3.57E-1 | 3.57E-1 | " | | ND | | | | 35 | |
| Boron | <1.92E0 | 1.92E0 | " | | ND | | | | 35 | |
| Barium | 2.62E-2 | 8.71E-3 | " | | 3.5E-2 | | | 28.9 | 35 | |
| Beryllium | <2.82E-2 | 2.82E-2 | " | | ND | | | | 35 | |
| Bismuth | <1.86E-1 | 1.86E-1 | " | | ND | | | | 35 | |
| Calcium | 4.58E1 | 3.84E-1 | " | | 4.11E1 | | | 10.8 | 35 | |
| Cadmium | <2.66E-2 | 2.66E-2 | " | | ND | | | | 35 | |
| Cobalt | <9.52E-2 | 9.52E-2 | " | | ND | | | | 35 | |
| Chromium | <3.30E-2 | 3.30E-2 | " | | ND | | | | 35 | |
| Copper | <7.97E-2 | 7.97E-2 | " | | ND | | | | 35 | |
| Iron | <1.41E-1 | 1.41E-1 | " | | ND | | | | 35 | |
| Potassium | 1.24E1 | 2.31E0 | " | | 1.23E1 | | | 0.0315 | 35 | |
| Lithium | <5.35E-1 | 5.35E-1 | " | | ND | | | | 35 | |
| Magnesium | 1.86E1 | 8.27E-2 | " | | 1.59E1 | | | 15.7 | 35 | |
| Manganese | <1.70E-2 | 1.70E-2 | " | | ND | | | | 35 | |
| Molybdenum | <1.38E-1 | 1.38E-1 | " | | ND | | | | 35 | |
| Nickel | <9.25E-2 | 9.25E-2 | " | | ND | | | | 35 | |
| Phosphorus | <1.02E0 | 1.02E0 | " | | ND | | | | 35 | |
| Lead | <4.28E-1 | 4.28E-1 | " | | ND | | | | 35 | |
| Selenium | <1.93E0 | 1.93E0 | " | | ND | | | | 35 | |
| Strontium | 2.26E-1 | 5.17E-2 | " | | 1.93E-1 | | | 15.4 | 35 | |
| Thallium | <1.02E0 | 1.02E0 | " | | ND | | | | 35 | |
| Vanadium | <4.49E-2 | 4.49E-2 | " | | ND | | | | 35 | |
| Zinc | <9.19E-2 | 9.19E-2 | " | | ND | | | | 35 | |
| Sodium | 1.92E1 | 6.63E-1 | " | | 1.99E1 | | | 3.93 | 35 | |
| Silicon | 8.93E0 | 1.49E0 | " | | 8.6E0 | | | 3.85 | 35 | |
| Sulfur | 5.06E1 | 3.05E0 | " | | 4.03E1 | | | 22.6 | 35 | |
| Titanium | <8.68E-3 | 8.68E-3 | " | | ND | | | | 35 | |
| Zirconium | <1.49E-1 | 1.49E-1 | " | | ND | | | | 35 | |
| Silver | <7.64E-2 | 7.64E-2 | " | | ND | | | | 35 | |
| Rhenium | <1.50E-1 | 1.50E-1 | " | | ND | | | | 35 | |
| Antimony | <6.28E-1 | 6.28E-1 | " | | ND | | | | 35 | |

# Total Metals by PNNL-AGG-ICP-AES/Water Extract - Quality Control
## Environmental Science Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 8F30003 - 1:1 Water Extract (ICP/ICPMS)** | | | | | | | | | | |
| **Post Spike (8F30003-PS1)** | **Source: 0805020-11** | | Prepared & Analyzed: 06/30/08 | | | | | | | |
| Aluminum | 1.41E3 | N/A | ug/L | 500 | 85.1E1 | 112 | 75-125 | | | |
| Arsenic | 7.71E2 | N/A | " | 500 | 25.5E1 | 103 | 75-125 | | | |
| Boron | 5.53E2 | N/A | " | 500 | 37.2E0 | 103 | 75-125 | | | |
| Barium | 2.87E2 | N/A | " | 250 | 35.4E0 | 101 | 75-125 | | | |
| Beryllium | 2.5E2 | N/A | " | 250 | 27.5E-2 | 99.8 | 75-125 | | | |
| Bismuth | 4.71E2 | N/A | " | 500 | 11.3E-1 | 94 | 75-125 | | | |
| Calcium | 6.63E3 | N/A | " | 500 | 58.7E2 | 153 | 75-125 | | | |
| Cadmium | 2.39E2 | N/A | " | 250 | 12.2E-2 | 95.7 | 75-125 | | | |
| Cobalt | 2.35E2 | N/A | " | 250 | 12.9E-1 | 93.4 | 75-125 | | | |
| Chromium | 1.24E2 | N/A | " | 125 | 11.9E-1 | 98.5 | 75-125 | | | |
| Copper | 5.63E2 | N/A | " | 500 | 40.9E0 | 104 | 75-125 | | | |
| Iron | 1.8E3 | N/A | " | 500 | 12.9E2 | 101 | 75-125 | | | |
| Potassium | 2.96E3 | N/A | " | 1250 | 16.2E2 | 108 | 75-125 | | | |
| Lithium | 5.3E2 | N/A | " | 500 | 12.7E0 | 103 | 75-125 | | | |
| Magnesium | 9.78E2 | N/A | " | 500 | 52.4E1 | 90.7 | 75-125 | | | |
| Manganese | 2.99E2 | N/A | " | 250 | 54.7E0 | 97.6 | 75-125 | | | |
| Molybdenum | 5.27E2 | N/A | " | 500 | 23.1E0 | 101 | 75-125 | | | |
| Nickel | 4.77E2 | N/A | " | 500 | 54.9E-1 | 94.3 | 75-125 | | | |
| Phosphorus | 2.99E3 | N/A | " | 1250 | 16.9E2 | 104 | 75-125 | | | |
| Lead | 4.71E2 | N/A | " | 500 | ND | 96.1 | 75-125 | | | |
| Selenium | 4.78E2 | N/A | " | 500 | ND | 99.3 | 75-125 | | | |
| Strontium | 5.48E2 | N/A | " | 500 | 12.7E0 | 107 | 75-125 | | | |
| Thallium | 4.34E2 | N/A | " | 500 | ND | 98.9 | 75-125 | | | |
| Vanadium | 3.71E2 | N/A | " | 250 | 11.9E1 | 101 | 75-125 | | | |
| Zinc | 2.64E2 | N/A | " | 250 | 16.9E0 | 98.8 | 75-125 | | | |
| Sodium | 1.69E5 | N/A | " | 500 | 16.4E4 | 1000 | 75-125 | | | |
| Silicon | 7.38E3 | N/A | " | 500 | 67.1E2 | 134 | 75-125 | | | |
| Sulfur | 3.3E3 | N/A | " | 1000 | 23.2E2 | 97.3 | 75-125 | | | |
| Titanium | 2.93E2 | N/A | " | 250 | 10.1E1 | 76.9 | 75-125 | | | |
| Zirconium | 2.54E2 | N/A | " | 250 | 11.E0 | 97.1 | 75-125 | | | |
| Silver | 5.02E2 | N/A | " | 500 | ND | 101 | 75-125 | | | |
| Rhenium | 4.95E2 | N/A | " | 500 | 39.3E-1 | 98.3 | 75-125 | | | |
| Antimony | 5.E2 | N/A | " | 500 | 66.4E-1 | 98.7 | 75-125 | | | |

# Total Metals by PNNL-AGG-ICP-AES/Water Extract - Quality Control
## Environmental Science Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 8F30003 - 1:1 Water Extract (ICP/ICPMS)** | | | | | | | | | | |
| **Post Spike (8F30003-PS2)** | **Source: 0805020-27** | | | Prepared & Analyzed: 06/30/08 | | | | | | |
| Aluminum | 5.17E2 | N/A | ug/L | 500 | 14.1E0 | 101 | 75-125 | | | |
| Arsenic | 4.82E2 | N/A | " | 500 | ND | 99.7 | 75-125 | | | |
| Boron | 5.25E2 | N/A | " | 500 | 14.1E0 | 102 | 75-125 | | | |
| Barium | 2.58E2 | N/A | " | 250 | 11.7E0 | 98.4 | 75-125 | | | |
| Beryllium | 2.53E2 | N/A | " | 250 | 10.8E-2 | 101 | 75-125 | | | |
| Bismuth | 5.1E2 | N/A | " | 500 | 22.8E0 | 97.5 | 75-125 | | | |
| Calcium | 1.42E4 | N/A | " | 500 | 13.7E3 | 104 | 75-125 | | | |
| Cadmium | 2.38E2 | N/A | " | 250 | ND | 95.1 | 75-125 | | | |
| Cobalt | 2.37E2 | N/A | " | 250 | ND | 95.2 | 75-125 | | | |
| Chromium | 1.22E2 | N/A | " | 125 | ND | 99.6 | 75-125 | | | |
| Copper | 5.23E2 | N/A | " | 500 | ND | 105 | 75-125 | | | |
| Iron | 5.01E2 | N/A | " | 500 | 21.E-1 | 99.9 | 75-125 | | | |
| Potassium | 5.46E3 | N/A | " | 1250 | 41.1E2 | 108 | 75-125 | | | |
| Lithium | 5.27E2 | N/A | " | 500 | 10.9E0 | 103 | 75-125 | | | |
| Magnesium | 5.82E3 | N/A | " | 500 | 53.E2 | 105 | 75-125 | | | |
| Manganese | 2.5E2 | N/A | " | 250 | ND | 102 | 75-125 | | | |
| Molybdenum | 5.33E2 | N/A | " | 500 | 28.8E0 | 101 | 75-125 | | | |
| Nickel | 4.82E2 | N/A | " | 500 | ND | 96.5 | 75-125 | | | |
| Phosphorus | 1.31E3 | N/A | " | 1250 | 39.8E0 | 101 | 75-125 | | | |
| Lead | 4.76E2 | N/A | " | 500 | ND | 97.9 | 75-125 | | | |
| Selenium | 4.51E2 | N/A | " | 500 | ND | 103 | 75-125 | | | |
| Strontium | 5.81E2 | N/A | " | 500 | 64.4E0 | 103 | 75-125 | | | |
| Thallium | 4.E2 | N/A | " | 500 | ND | 98.4 | 75-125 | | | |
| Vanadium | 2.44E2 | N/A | " | 250 | ND | 99.7 | 75-125 | | | |
| Zinc | 2.58E2 | N/A | " | 250 | 12.7E0 | 98.3 | 75-125 | | | |
| Sodium | 7.12E3 | N/A | " | 500 | 66.4E2 | 96.2 | 75-125 | | | |
| Silicon | 3.44E3 | N/A | " | 500 | 28.6E2 | 116 | 75-125 | | | |
| Sulfur | 1.45E4 | N/A | " | 1000 | 13.4E3 | 111 | 75-125 | | | |
| Titanium | 2.46E2 | N/A | " | 250 | ND | 98.7 | 75-125 | | | |
| Zirconium | 2.52E2 | N/A | " | 250 | 67.4E-1 | 98.2 | 75-125 | | | |
| Silver | 4.63E2 | N/A | " | 500 | 14.6E-3 | 92.5 | 75-125 | | | |
| Rhenium | 4.96E2 | N/A | " | 500 | 83.5E-1 | 97.5 | 75-125 | | | |
| Antimony | 5.05E2 | N/A | " | 500 | 28.6E-1 | 100 | 75-125 | | | |

# Total Metals by PNNL-AGG-ICP-AES/Acid Extract - Quality Control

## Environmental Science Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 8G01001 - ASTM D 5198 (ICP/ICPMS)** | | | | | | | | | | |
| **Blank (8G01001-BLK1)** | | | | Prepared: 06/26/08 Analyzed: 07/01/08 | | | | | | |
| Aluminum | <9.88E0 | 9.88E0 | ug/g wet | | | | | | | |
| Arsenic | <2.40E1 | 2.40E1 | " | | | | | | | |
| Boron | <2.09E2 | 2.09E2 | " | | | | | | | |
| Barium | <9.41E-1 | 9.41E-1 | " | | | | | | | |
| Beryllium | <3.73E-1 | 3.73E-1 | " | | | | | | | |
| Bismuth | <4.99E0 | 4.99E0 | " | | | | | | | |
| Calcium | <3.67E1 | 3.67E1 | " | | | | | | | |
| Cadmium | <5.61E-1 | 5.61E-1 | " | | | | | | | |
| Cobalt | <2.05E0 | 2.05E0 | " | | | | | | | |
| Chromium | <8.21E-1 | 8.21E-1 | " | | | | | | | |
| Copper | <8.75E0 | 8.75E0 | " | | | | | | | |
| Iron | <2.51E1 | 2.51E1 | " | | | | | | | |
| Potassium | <2.33E1 | 2.33E1 | " | | | | | | | |
| Lithium | <3.56E0 | 3.56E0 | " | | | | | | | |
| Magnesium | <7.77E0 | 7.77E0 | " | | | | | | | |
| Manganese | <2.94E-1 | 2.94E-1 | " | | | | | | | |
| Molybdenum | <5.57E0 | 5.57E0 | " | | | | | | | |
| Nickel | <2.02E0 | 2.02E0 | " | | | | | | | |
| Phosphorus | <1.85E1 | 1.85E1 | " | | | | | | | |
| Lead | <7.81E0 | 7.81E0 | " | | | | | | | |
| Strontium | <3.56E-1 | 3.56E-1 | " | | | | | | | |
| Zinc | <1.54E0 | 1.54E0 | " | | | | | | | |
| Sodium | <2.63E2 | 2.63E2 | " | | | | | | | |
| Silicon | <3.43E2 | 3.43E2 | " | | | | | | | |
| Sulfur | <5.82E1 | 5.82E1 | " | | | | | | | |
| Titanium | <7.75E0 | 7.75E0 | " | | | | | | | |
| Zirconium | <5.00E0 | 5.00E0 | " | | | | | | | |
| Rhenium | <4.33E0 | 4.33E0 | " | | | | | | | |
| Antimony | <2.75E1 | 2.75E1 | " | | | | | | | |

# Total Metals by PNNL-AGG-ICP-AES/Acid Extract - Quality Control
## Environmental Science Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 8G01001 - ASTM D 5198 (ICP/ICPMS)** | | | | | | | | | | |
| **Blank (8G01001-BLK2)** | | | | Prepared: 06/27/08 Analyzed: 07/01/08 | | | | | | |
| Aluminum | <9.88E0 | 9.88E0 | ug/g wet | | | | | | | |
| Arsenic | <2.40E1 | 2.40E1 | " | | | | | | | |
| Boron | <2.09E2 | 2.09E2 | " | | | | | | | |
| Barium | <9.41E-1 | 9.41E-1 | " | | | | | | | |
| Beryllium | <3.73E-1 | 3.73E-1 | " | | | | | | | |
| Bismuth | <4.99E0 | 4.99E0 | " | | | | | | | |
| Calcium | <3.67E1 | 3.67E1 | " | | | | | | | |
| Cadmium | <5.61E-1 | 5.61E-1 | " | | | | | | | |
| Cobalt | <2.05E0 | 2.05E0 | " | | | | | | | |
| Chromium | <8.21E-1 | 8.21E-1 | " | | | | | | | |
| Copper | <8.75E0 | 8.75E0 | " | | | | | | | |
| Iron | <2.51E1 | 2.51E1 | " | | | | | | | |
| Potassium | <2.33E1 | 2.33E1 | " | | | | | | | |
| Lithium | <3.56E0 | 3.56E0 | " | | | | | | | |
| Magnesium | <7.77E0 | 7.77E0 | " | | | | | | | |
| Manganese | <2.94E-1 | 2.94E-1 | " | | | | | | | |
| Molybdenum | <5.57E0 | 5.57E0 | " | | | | | | | |
| Nickel | <2.02E0 | 2.02E0 | " | | | | | | | |
| Phosphorus | <1.85E1 | 1.85E1 | " | | | | | | | |
| Lead | <7.81E0 | 7.81E0 | " | | | | | | | |
| Strontium | <3.56E-1 | 3.56E-1 | " | | | | | | | |
| Zinc | <1.54E0 | 1.54E0 | " | | | | | | | |
| Sodium | <2.63E2 | 2.63E2 | " | | | | | | | |
| Silicon | <3.43E2 | 3.43E2 | " | | | | | | | |
| Sulfur | <5.82E1 | 5.82E1 | " | | | | | | | |
| Titanium | <7.75E0 | 7.75E0 | " | | | | | | | |
| Zirconium | <5.00E0 | 5.00E0 | " | | | | | | | |
| Rhenium | <4.33E0 | 4.33E0 | " | | | | | | | |
| Antimony | <2.75E1 | 2.75E1 | " | | | | | | | |

# Total Metals by PNNL-AGG-ICP-AES/Acid Extract - Quality Control

## Environmental Science Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 8G01001 - ASTM D 5198 (ICP/ICPMS)** | | | | | | | | | | |
| **LCS (8G01001-BS1)** | | | | Prepared: 06/26/08 Analyzed: 07/01/08 | | | | | | |
| Aluminum | 4.75E0 | 1.39E-1 | ug/g wet | 5.000 | | 95.1 | 80-120 | | | |
| Arsenic | 4.85E0 | 3.37E-1 | " | 5.000 | | 97.0 | 80-120 | | | |
| Boron | 4.73E0 | 2.93E0 | " | 5.000 | | 94.6 | 80-120 | | | |
| Barium | 5.18E0 | 1.32E-2 | " | 5.000 | | 104 | 80-120 | | | |
| Beryllium | 4.87E0 | 5.24E-3 | " | 5.000 | | 97.4 | 80-120 | | | |
| Bismuth | <7.01E-2 | 7.01E-2 | " | | | | 80-120 | | | |
| Calcium | 5.04E0 | 5.15E-1 | " | 5.000 | | 101 | 80-120 | | | |
| Cadmium | 4.91E0 | 7.88E-3 | " | 5.000 | | 98.3 | 80-120 | | | |
| Cobalt | 4.91E0 | 2.88E-2 | " | 5.000 | | 98.3 | 80-120 | | | |
| Chromium | 5.31E0 | 1.15E-2 | " | 5.000 | | 106 | 80-120 | | | |
| Copper | 5.17E0 | 1.23E-1 | " | 5.000 | | 103 | 80-120 | | | |
| Iron | 5.13E0 | 3.52E-1 | " | 5.000 | | 103 | 80-120 | | | |
| Potassium | 5.13E1 | 3.27E-1 | " | 50.00 | | 103 | 80-120 | | | |
| Lithium | <5.00E-2 | 5.00E-2 | " | | | | 80-120 | | | |
| Magnesium | 4.73E0 | 1.09E-1 | " | 5.000 | | 94.5 | 80-120 | | | |
| Manganese | 5.08E0 | 4.13E-3 | " | 5.000 | | 102 | 80-120 | | | |
| Molybdenum | 5.16E0 | 7.82E-2 | " | 5.000 | | 103 | 80-120 | | | |
| Nickel | 5.01E0 | 2.84E-2 | " | 5.000 | | 100 | 80-120 | | | |
| Phosphorus | <2.60E-1 | 2.60E-1 | " | | | | 80-120 | | | |
| Lead | 5.04E0 | 1.10E-1 | " | 5.000 | | 101 | 80-120 | | | |
| Strontium | <5.00E-3 | 5.00E-3 | " | | | | 80-120 | | | |
| Zinc | 4.91E0 | 2.16E-2 | " | 5.000 | | 98.1 | 80-120 | | | |
| Sodium | 5.75E0 | 3.69E0 | " | 5.000 | | 115 | 80-120 | | | |
| Silicon | <4.82E0 | 4.82E0 | " | 2.500 | | | 80-120 | | | |
| Sulfur | <8.17E-1 | 8.17E-1 | " | | | | 80-120 | | | |
| Titanium | 5.10E0 | 1.09E-1 | " | 5.000 | | 102 | 80-120 | | | |
| Zirconium | 7.43E-2 | 7.02E-2 | " | | | | 80-120 | | | |
| Rhenium | <6.08E-2 | 6.08E-2 | " | | | | 80-120 | | | |
| Antimony | 4.96E0 | 3.86E-1 | " | 5.000 | | 99.2 | 80-120 | | | |

# Total Metals by PNNL-AGG-ICP-AES/Acid Extract - Quality Control

## Environmental Science Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 8G01001 - ASTM D 5198 (ICP/ICPMS)** | | | | | | | | | | |
| **LCS (8G01001-BS2)** | | | | Prepared: 06/27/08 Analyzed: 07/01/08 | | | | | | |
| Aluminum | 4.75E0 | 1.38E-1 | ug/g wet | 5.000 | | 95.0 | 80-120 | | | |
| Arsenic | 4.90E0 | 3.35E-1 | " | 5.000 | | 98.1 | 80-120 | | | |
| Boron | 4.78E0 | 2.92E0 | " | 5.000 | | 95.6 | 80-120 | | | |
| Barium | 5.12E0 | 1.31E-2 | " | 5.000 | | 102 | 80-120 | | | |
| Beryllium | 4.93E0 | 5.21E-3 | " | 5.000 | | 98.6 | 80-120 | | | |
| Bismuth | <6.97E-2 | 6.97E-2 | " | | | | 80-120 | | | |
| Calcium | 4.95E0 | 5.12E-1 | " | 5.000 | | 99.0 | 80-120 | | | |
| Cadmium | 4.94E0 | 7.83E-3 | " | 5.000 | | 98.8 | 80-120 | | | |
| Cobalt | 4.93E0 | 2.86E-2 | " | 5.000 | | 98.6 | 80-120 | | | |
| Chromium | 5.31E0 | 1.15E-2 | " | 5.000 | | 106 | 80-120 | | | |
| Copper | 5.17E0 | 1.22E-1 | " | 5.000 | | 103 | 80-120 | | | |
| Iron | 5.12E0 | 3.50E-1 | " | 5.000 | | 102 | 80-120 | | | |
| Potassium | 5.07E1 | 3.25E-1 | " | 50.00 | | 101 | 80-120 | | | |
| Lithium | <4.97E-2 | 4.97E-2 | " | | | | 80-120 | | | |
| Magnesium | 4.71E0 | 1.08E-1 | " | 5.000 | | 94.3 | 80-120 | | | |
| Manganese | 5.08E0 | 4.11E-3 | " | 5.000 | | 102 | 80-120 | | | |
| Molybdenum | 5.23E0 | 7.78E-2 | " | 5.000 | | 105 | 80-120 | | | |
| Nickel | 5.04E0 | 2.82E-2 | " | 5.000 | | 101 | 80-120 | | | |
| Phosphorus | <2.58E-1 | 2.58E-1 | " | | | | 80-120 | | | |
| Lead | 5.07E0 | 1.09E-1 | " | 5.000 | | 101 | 80-120 | | | |
| Strontium | <4.97E-3 | 4.97E-3 | " | | | | 80-120 | | | |
| Zinc | 5.05E0 | 2.15E-2 | " | 5.000 | | 101 | 80-120 | | | |
| Sodium | 5.52E0 | 3.67E0 | " | 5.000 | | 110 | 80-120 | | | |
| Silicon | <4.79E0 | 4.79E0 | " | 2.500 | | | 80-120 | | | |
| Sulfur | <8.13E-1 | 8.13E-1 | " | | | | 80-120 | | | |
| Titanium | 5.20E0 | 1.08E-1 | " | 5.000 | | 104 | 80-120 | | | |
| Zirconium | <6.98E-2 | 6.98E-2 | " | | | | 80-120 | | | |
| Rhenium | <6.05E-2 | 6.05E-2 | " | | | | 80-120 | | | |
| Antimony | 5.01E0 | 3.84E-1 | " | 5.000 | | 100 | 80-120 | | | |

# Total Metals by PNNL-AGG-ICP-AES/Acid Extract - Quality Control
## Environmental Science Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 8G01001 - ASTM D 5198 (ICP/ICPMS)** | | | | | | | | | | |
| **Duplicate (8G01001-DUP1)** | **Source: 0805020-11** | | Prepared: 06/26/08 Analyzed: 07/01/08 | | | | | | | |
| Aluminum | 6.71E3 | 3.98E1 | ug/g dry | | 6.11E3 | | | 9.48 | 35 | |
| Arsenic | <9.66E1 | 9.66E1 | " | | ND | | | | 35 | |
| Boron | <8.41E2 | 8.41E2 | " | | ND | | | | 35 | |
| Barium | 8.55E1 | 3.79E0 | " | | 8.02E1 | | | 6.44 | 35 | |
| Beryllium | <1.50E0 | 1.50E0 | " | | ND | | | | 35 | |
| Bismuth | <2.01E1 | 2.01E1 | " | | ND | | | | 35 | |
| Calcium | 9.86E3 | 1.48E2 | " | | 8.77E3 | | | 11.7 | 35 | |
| Cadmium | <2.26E0 | 2.26E0 | " | | ND | | | | 35 | |
| Cobalt | <8.25E0 | 8.25E0 | " | | ND | | | | 35 | |
| Chromium | 5.59E0 | 3.30E0 | " | | 4.96E0 | | | 11.9 | 35 | |
| Copper | <3.52E1 | 3.52E1 | " | | ND | | | | 35 | |
| Iron | 1.44E4 | 1.01E2 | " | | 1.33E4 | | | 7.91 | 35 | |
| Potassium | 1.42E3 | 9.38E1 | " | | 1.27E3 | | | 11.1 | 35 | |
| Lithium | <1.43E1 | 1.43E1 | " | | ND | | | | 35 | |
| Magnesium | 4.50E3 | 3.13E1 | " | | 4.14E3 | | | 8.22 | 35 | |
| Manganese | 2.97E2 | 1.18E0 | " | | 2.82E2 | | | 5.25 | 35 | |
| Molybdenum | <2.24E1 | 2.24E1 | " | | ND | | | | 35 | |
| Nickel | 8.37E0 | 8.13E0 | " | | ND | | | | 35 | |
| Phosphorus | 7.45E2 | 7.45E1 | " | | 6.73E2 | | | 10.2 | 35 | |
| Lead | <3.14E1 | 3.14E1 | " | | ND | | | | 35 | |
| Strontium | 3.20E1 | 1.43E0 | " | | 2.91E1 | | | 9.45 | 35 | |
| Zinc | 3.73E1 | 6.20E0 | " | | 3.44E1 | | | 8.24 | 35 | |
| Sodium | 2.19E3 | 1.06E3 | " | | 2.01E3 | | | 8.77 | 35 | |
| Silicon | <1.38E3 | 1.38E3 | " | | ND | | | | 35 | |
| Sulfur | <2.34E2 | 2.34E2 | " | | ND | | | | 35 | |
| Titanium | 7.47E2 | 3.12E1 | " | | 6.63E2 | | | 11.8 | 35 | |
| Zirconium | <2.01E1 | 2.01E1 | " | | ND | | | | 35 | |
| Rhenium | <1.74E1 | 1.74E1 | " | | ND | | | | 35 | |
| Antimony | <1.11E2 | 1.11E2 | " | | ND | | | | 35 | |

# Total Metals by PNNL-AGG-ICP-AES/Acid Extract - Quality Control
## Environmental Science Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 8G01001 - ASTM D 5198 (ICP/ICPMS)** | | | | | | | | | | |
| **Duplicate (8G01001-DUP2)** | **Source: 0805020-27** | | | Prepared: 06/27/08 Analyzed: 07/01/08 | | | | | | |
| Aluminum | 4.83E3 | 3.63E1 | ug/g dry | | 4.61E3 | | | 4.55 | 35 | |
| Arsenic | <8.81E1 | 8.81E1 | " | | ND | | | | 35 | |
| Boron | <7.67E2 | 7.67E2 | " | | ND | | | | 35 | |
| Barium | 5.42E1 | 3.45E0 | " | | 5.14E1 | | | 5.44 | 35 | |
| Beryllium | <1.37E0 | 1.37E0 | " | | ND | | | | 35 | |
| Bismuth | <1.83E1 | 1.83E1 | " | | ND | | | | 35 | |
| Calcium | 8.60E3 | 1.35E2 | " | | 7.56E3 | | | 12.9 | 35 | |
| Cadmium | <2.06E0 | 2.06E0 | " | | ND | | | | 35 | |
| Cobalt | <7.53E0 | 7.53E0 | " | | ND | | | | 35 | |
| Chromium | 1.00E1 | 3.01E0 | " | | 9.9E0 | | | 1.02 | 35 | |
| Copper | <3.21E1 | 3.21E1 | " | | ND | | | | 35 | |
| Iron | 8.84E3 | 9.21E1 | " | | 9.05E3 | | | 2.33 | 35 | |
| Potassium | 1.18E3 | 8.55E1 | " | | 1.12E3 | | | 4.95 | 35 | |
| Lithium | <1.31E1 | 1.31E1 | " | | ND | | | | 35 | |
| Magnesium | 3.71E3 | 2.85E1 | " | | 3.51E3 | | | 5.54 | 35 | |
| Manganese | 2.17E2 | 1.08E0 | " | | 2.14E2 | | | 1.71 | 35 | |
| Molybdenum | <2.04E1 | 2.04E1 | " | | ND | | | | 35 | |
| Nickel | 8.94E0 | 7.42E0 | " | | 8.89E0 | | | 0.601 | 35 | |
| Phosphorus | 3.52E2 | 6.79E1 | " | | 3.44E2 | | | 2.18 | 35 | |
| Lead | <2.87E1 | 2.87E1 | " | | ND | | | | 35 | |
| Strontium | 2.99E1 | 1.31E0 | " | | 2.68E1 | | | 10.9 | 35 | |
| Zinc | 2.62E1 | 5.65E0 | " | | 2.43E1 | | | 7.63 | 35 | |
| Sodium | <9.66E2 | 9.66E2 | " | | ND | | | | 35 | |
| Silicon | <1.26E3 | 1.26E3 | " | | ND | | | | 35 | |
| Sulfur | <2.14E2 | 2.14E2 | " | | ND | | | | 35 | |
| Titanium | 3.80E2 | 2.85E1 | " | | 3.39E2 | | | 11.5 | 35 | |
| Zirconium | <1.84E1 | 1.84E1 | " | | ND | | | | 35 | |
| Rhenium | <1.59E1 | 1.59E1 | " | | ND | | | | 35 | |
| Antimony | <1.01E2 | 1.01E2 | " | | ND | | | | 35 | |

# Total Metals by PNNL-AGG-ICP-AES/Acid Extract - Quality Control

## Environmental Science Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 8G01001 - ASTM D 5198 (ICP/ICPMS)** | | | | | | | | | | |
| **Post Spike (8G01001-PS1)** | **Source: 0805020-11** | | Prepared & Analyzed: 07/01/08 | | | | | | | |
| Aluminum | 1.57E4 | 39.3E2 | ug/g dry | 500 | 15.3E3 | 75.2 | 75-125 | | | |
| Arsenic | 4.32E2 | 95.5E2 | " | 500 | ND | 101 | 75-125 | | | |
| Boron | 5.E2 | 83.2E3 | " | 500 | 71.3E-1 | 98.6 | 75-125 | | | |
| Barium | 4.69E2 | 37.4E1 | " | 250 | 20.2E1 | 107 | 75-125 | | | |
| Beryllium | 2.42E2 | 14.8E1 | " | 250 | 40.7E-2 | 96.7 | 75-125 | | | |
| Bismuth | 5.15E2 | 19.9E2 | " | 500 | 34.3E0 | 96.1 | 75-125 | | | |
| Calcium | 2.27E4 | 14.6E3 | " | 500 | 22.E3 | 131 | 75-125 | | | |
| Cadmium | 2.33E2 | 22.3E1 | " | 250 | ND | 94 | 75-125 | | | |
| Cobalt | 2.45E2 | 81.6E1 | " | 250 | 17.4E0 | 90.9 | 75-125 | | | |
| Chromium | 1.34E2 | 32.7E1 | " | 125 | 12.5E0 | 96.9 | 75-125 | | | |
| Copper | 5.37E2 | 34.8E2 | " | 500 | 21.5E0 | 103 | 75-125 | | | |
| Iron | 3.39E4 | 99.9E2 | " | 500 | 33.5E3 | 81.3 | 75-125 | | | |
| Potassium | 4.46E3 | 92.7E2 | " | 1250 | 31.8E2 | 103 | 75-125 | | | |
| Lithium | 4.82E2 | 14.2E2 | " | 500 | 30.9E0 | 90.3 | 75-125 | | | |
| Magnesium | 1.09E4 | 30.9E2 | " | 500 | 10.4E3 | 88.9 | 75-125 | | | |
| Manganese | 9.55E2 | 11.7E1 | " | 250 | 70.9E1 | 98.7 | 75-125 | | | |
| Molybdenum | 4.91E2 | 22.2E2 | " | 500 | 14.6E0 | 95.2 | 75-125 | | | |
| Nickel | 4.83E2 | 80.4E1 | " | 500 | 20.1E0 | 92.5 | 75-125 | | | |
| Phosphorus | 2.9E3 | 73.6E2 | " | 1250 | 16.9E2 | 96.4 | 75-125 | | | |
| Lead | 4.73E2 | 31.1E2 | " | 500 | ND | 94.6 | 75-125 | | | |
| Strontium | 6.12E2 | 14.2E1 | " | 500 | 73.2E0 | 108 | 75-125 | | | |
| Zinc | 3.55E2 | 61.3E1 | " | 250 | 86.4E0 | 108 | 75-125 | | | |
| Sodium | 5.53E3 | 10.5E4 | " | 500 | 50.4E2 | 97.4 | 75-125 | | | |
| Silicon | 5.75E2 | 13.7E4 | " | 500 | 57.9E0 | 103 | 75-125 | | | |
| Sulfur | 7.91E2 | 23.2E3 | " | 1000 | ND | 97.8 | 75-125 | | | |
| Titanium | 1.91E3 | 30.8E2 | " | 250 | 16.7E2 | 95.7 | 75-125 | | | |
| Zirconium | 2.82E2 | 19.9E2 | " | 250 | 37.8E0 | 97.5 | 75-125 | | | |
| Rhenium | 4.81E2 | 17.2E2 | " | 500 | 16.4E-1 | 95.9 | 75-125 | | | |
| Antimony | 4.86E2 | 10.9E3 | " | 500 | 26.E-2 | 97.1 | 75-125 | | | |

# Total Metals by PNNL-AGG-ICP-AES/Acid Extract - Quality Control
## Environmental Science Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 8G01001 - ASTM D 5198 (ICP/ICPMS)** | | | | | | | | | | |
| **Post Spike (8G01001-PS2)** | **Source: 0805020-27** | | | Prepared & Analyzed: 07/01/08 | | | | | | |
| Aluminum | 1.3E4 | 36.8E2 | ug/g dry | 500 | 12.4E3 | 120 | 75-125 | | | |
| Arsenic | 4.4E2 | 89.4E2 | " | 500 | ND | 96.3 | 75-125 | | | |
| Boron | 5.04E2 | 77.9E3 | " | 500 | 51.9E-1 | 99.7 | 75-125 | | | |
| Barium | 4.18E2 | 35.1E1 | " | 250 | 13.8E1 | 112 | 75-125 | | | |
| Beryllium | 2.44E2 | 13.9E1 | " | 250 | 15.2E-2 | 97.5 | 75-125 | | | |
| Bismuth | 5.31E2 | 18.6E2 | " | 500 | 39.8E0 | 98.1 | 75-125 | | | |
| Calcium | 2.27E4 | 13.7E3 | " | 500 | 20.3E3 | 484 | 75-125 | | | |
| Cadmium | 2.34E2 | 20.9E1 | " | 250 | ND | 94.4 | 75-125 | | | |
| Cobalt | 2.4E2 | 76.4E1 | " | 250 | 10.9E0 | 91.5 | 75-125 | | | |
| Chromium | 1.49E2 | 30.6E1 | " | 125 | 26.6E0 | 97.7 | 75-125 | | | |
| Copper | 5.35E2 | 32.6E2 | " | 500 | 12.2E0 | 105 | 75-125 | | | |
| Iron | 2.34E4 | 93.5E2 | " | 500 | 24.3E3 | NR | 75-125 | | | |
| Potassium | 4.34E3 | 86.8E2 | " | 1250 | 30.1E2 | 106 | 75-125 | | | |
| Lithium | 5.17E2 | 13.3E2 | " | 500 | 32.E0 | 97.1 | 75-125 | | | |
| Magnesium | 1.02E4 | 28.9E2 | " | 500 | 94.2E2 | 156 | 75-125 | | | |
| Manganese | 8.28E2 | 11.0E1 | " | 250 | 57.4E1 | 102 | 75-125 | | | |
| Molybdenum | 4.91E2 | 20.7E2 | " | 500 | 15.4E0 | 95.2 | 75-125 | | | |
| Nickel | 4.87E2 | 75.2E1 | " | 500 | 23.9E0 | 92.6 | 75-125 | | | |
| Phosphorus | 2.15E3 | 68.9E2 | " | 1250 | 92.4E1 | 97.9 | 75-125 | | | |
| Lead | 4.79E2 | 29.1E2 | " | 500 | ND | 97 | 75-125 | | | |
| Strontium | 6.28E2 | 13.3E1 | " | 500 | 72.1E0 | 111 | 75-125 | | | |
| Zinc | 3.34E2 | 57.4E1 | " | 250 | 65.2E0 | 107 | 75-125 | | | |
| Sodium | 8.83E2 | 98.0E3 | " | 500 | 34.6E1 | 107 | 75-125 | | | |
| Silicon | 5.74E2 | 12.8E4 | " | 500 | 50.9E0 | 105 | 75-125 | | | |
| Sulfur | 8.38E2 | 21.7E3 | " | 1000 | ND | 95.4 | 75-125 | | | |
| Titanium | 1.22E3 | 28.9E2 | " | 250 | 91.0E1 | 124 | 75-125 | | | |
| Zirconium | 2.7E2 | 18.6E2 | " | 250 | 22.5E0 | 99.2 | 75-125 | | | |
| Rhenium | 4.85E2 | 16.1E2 | " | 500 | 81.1E-2 | 96.9 | 75-125 | | | |
| Antimony | 5.05E2 | 10.2E3 | " | 500 | 10.9E0 | 98.8 | 75-125 | | | |

# Radionuclides by ICP-MS/Acid Extract - Quality Control
## Environmental Science Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 8G02004 - ASTM D 5198 (ICP/ICPMS)** | | | | | | | | | | |
| **Blank (8G02004-BLK1)** | | | | Prepared & Analyzed: 07/02/08 | | | | | | |
| Technetium-99 | <1.19E-3 | 1.19E-3 | ug/g wet | | | | | | | |
| Uranium 238 | <8.64E-3 | 8.64E-3 | " | | | | | | | |
| **Duplicate (8G02004-DUP1)** | | **Source: 0805020-11** | | Prepared & Analyzed: 07/02/08 | | | | | | |
| Technetium-99 | <4.79E-3 | 4.79E-3 | ug/g dry | | ND | | | | 35 | |
| Uranium 238 | 5.47E-1 | 3.48E-2 | " | | 5.27E-1 | | | 3.71 | 35 | |
| **Post Spike (8G02004-PS1)** | | **Source: 0805020-11** | | Prepared & Analyzed: 07/02/08 | | | | | | |
| Technetium-99 | 4.84E-1 | N/A | ug/L | 0.5 | 27.E-4 | 96.2 | 75-125 | | | |
| Uranium 238 | 1.8E0 | N/A | " | 0.5 | 13.3E-1 | 94.1 | 75-125 | | | |
| **Batch 8G02006 - ASTM D 5198 (ICP/ICPMS)** | | | | | | | | | | |
| **Blank (8G02006-BLK1)** | | | | Prepared & Analyzed: 07/02/08 | | | | | | |
| Technetium-99 | <1.19E-3 | 1.19E-3 | ug/g wet | | | | | | | |
| Uranium 238 | <8.64E-3 | 8.64E-3 | " | | | | | | | |
| **Duplicate (8G02006-DUP1)** | | **Source: 0805020-27** | | Prepared & Analyzed: 07/02/08 | | | | | | |
| Technetium-99 | <4.37E-3 | 4.37E-3 | ug/g dry | | ND | | | | 35 | |
| Uranium 238 | 3.43E-1 | 3.17E-2 | " | | 3.59E-1 | | | 4.64 | 35 | |
| **Post Spike (8G02006-PS1)** | | **Source: 0805020-27** | | Prepared & Analyzed: 07/02/08 | | | | | | |
| Technetium-99 | 4.45E-1 | N/A | ug/L | 0.5 | 26.4E-4 | 88.4 | 75-125 | | | |
| Uranium 238 | 1.37E0 | N/A | " | 0.5 | 96.5E-2 | 81.3 | 75-125 | | | |
| **Batch 8G15009 - ASTM D 5198 (ICP/ICPMS)** | | | | | | | | | | |
| **Blank (8G15009-BLK1)** | | | | Prepared: 07/15/08 Analyzed: 07/17/08 | | | | | | |
| Neptunium-237 | <9.19E-4 | 9.19E-4 | ug/g wet | | | | | | | |
| Plutonium-239 | <2.28E-3 | 2.28E-3 | " | | | | | | | |
| Americium-241 | <1.98E-3 | 1.98E-3 | " | | | | | | | |

# Radionuclides by ICP-MS/Acid Extract - Quality Control

## Environmental Science Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 8G15009 - ASTM D 5198 (ICP/ICPMS)** | | | | | | | | | | |
| **Duplicate (8G15009-DUP1)** | | **Source: 0805020-11** | | Prepared: 07/15/08 | | Analyzed: 07/17/08 | | | | |
| Neptunium-237 | <3.70E-3 | 3.70E-3 | ug/g dry | | ND | | | | 35 | |
| Plutonium-239 | <9.20E-3 | 9.20E-3 | " | | ND | | | | 35 | |
| Americium-241 | <7.96E-3 | 7.96E-3 | " | | ND | | | | 35 | |
| **Post Spike (8G15009-PS1)** | | **Source: 0805020-11** | | Prepared: 07/15/08 | | Analyzed: 07/17/08 | | | | |
| Neptunium-237 | 8.61E-2 | N/A | ug/L | 0.1 | 29.4E-4 | 83.1 | 75-125 | | | |
| Plutonium-239 | 9.17E-2 | N/A | " | 0.1 | 41.E-4 | 87.6 | 75-125 | | | |
| Americium-241 | 8.37E-2 | N/A | " | 0.1 | 32.2E-4 | 80.4 | 75-125 | | | |
| **Batch 8G15010 - ASTM D 5198 (ICP/ICPMS)** | | | | | | | | | | |
| **Blank (8G15010-BLK1)** | | | | Prepared: 07/15/08 | | Analyzed: 07/17/08 | | | | |
| Neptunium-237 | <9.19E-4 | 9.19E-4 | ug/g wet | | | | | | | |
| Plutonium-239 | <2.28E-3 | 2.28E-3 | " | | | | | | | |
| Americium-241 | <1.98E-3 | 1.98E-3 | " | | | | | | | |
| **Duplicate (8G15010-DUP1)** | | **Source: 0805020-27** | | Prepared: 07/15/08 | | Analyzed: 07/17/08 | | | | |
| Neptunium-237 | <3.37E-3 | 3.37E-3 | ug/g dry | | ND | | | | 35 | |
| Plutonium-239 | <8.39E-3 | 8.39E-3 | " | | ND | | | | 35 | |
| Americium-241 | <7.26E-3 | 7.26E-3 | " | | ND | | | | 35 | |
| **Post Spike (8G15010-PS1)** | | **Source: 0805020-27** | | Prepared: 07/15/08 | | Analyzed: 07/17/08 | | | | |
| Neptunium-237 | 1.05E-1 | N/A | ug/L | 0.1 | 31.E-4 | 102 | 75-125 | | | |
| Plutonium-239 | 1.1E-1 | N/A | " | 0.1 | 38.9E-4 | 106 | 75-125 | | | |
| Americium-241 | 9.87E-2 | N/A | " | 0.1 | 35.5E-4 | 95.2 | 75-125 | | | |

# Radionuclides by ICP-MS/Water Extract - Quality Control
## Environmental Science Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 8E29006 - 1:1 Water Extract (ICP/ICPMS)** | | | | | | | | | | |
| **Blank (8E29006-BLK1)** | | | | Prepared: 05/29/08 Analyzed: 05/30/08 | | | | | | |
| Technetium-99 | <2.30E-5 | 2.30E-5 | ug/g wet | | | | | | | |
| Uranium 238 | <5.64E-4 | 5.64E-4 | " | | | | | | | |
| **Blank (8E29006-BLK2)** | | | | Prepared: 05/29/08 Analyzed: 05/30/08 | | | | | | |
| Technetium-99 | <2.30E-5 | 2.30E-5 | ug/g wet | | | | | | | |
| Uranium 238 | <5.64E-4 | 5.64E-4 | " | | | | | | | |
| **Duplicate (8E29006-DUP1)** | | **Source: 0805020-25** | | Prepared: 05/29/08 Analyzed: 05/30/08 | | | | | | |
| Technetium-99 | <2.30E-5 | 2.30E-5 | ug/g dry | | ND | | | | 35 | |
| Uranium 238 | <5.65E-4 | 5.65E-4 | " | | ND | | | | 35 | |
| **Batch 8F09006 - 1:1 Water Extract (ICP/ICPMS)** | | | | | | | | | | |
| **Blank (8F09006-BLK1)** | | | | Prepared & Analyzed: 06/09/08 | | | | | | |
| Technetium-99 | <2.30E-5 | 2.30E-5 | ug/g wet | | | | | | | |
| Uranium 238 | <5.64E-4 | 5.64E-4 | " | | | | | | | |
| **Duplicate (8F09006-DUP1)** | | **Source: 0805020-33** | | Prepared & Analyzed: 06/09/08 | | | | | | |
| Technetium-99 | <2.45E-5 | 2.45E-5 | ug/g dry | | ND | | | | 35 | |
| Uranium 238 | <5.99E-4 | 5.99E-4 | " | | ND | | | | 35 | |
| **Batch 8G01002 - 1:1 Water Extract (ICP/ICPMS)** | | | | | | | | | | |
| **Blank (8G01002-BLK1)** | | | | Prepared & Analyzed: 07/01/08 | | | | | | |
| Technetium-99 | <2.30E-5 | 2.30E-5 | ug/g wet | | | | | | | |
| Uranium 238 | <5.64E-4 | 5.64E-4 | " | | | | | | | |

# Radionuclides by ICP-MS/Water Extract - Quality Control
## Environmental Science Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 8G01002 - 1:1 Water Extract (ICP/ICPMS)** | | | | | | | | | | |
| **Duplicate (8G01002-DUP1)** | | **Source: 0805020-11** | | Prepared: 07/01/08 Analyzed: 07/22/08 | | | | | | |
| Technetium-99 | 6.21E-5 | 2.41E-5 | ug/g dry | | 4.93E-5 | | | 22.9 | 35 | |
| Uranium 238 | 3.26E-1 | 5.91E-4 | " | | 3.18E-1 | | | 2.39 | 35 | |
| **Post Spike (8G01002-PS1)** | | **Source: 0805020-11** | | Prepared: 07/01/08 Analyzed: 07/22/08 | | | | | | |
| Technetium-99 | 4.49E-1 | N/A | ug/L | 0.5 | 98.E-4 | 87.8 | 75-125 | | | |
| Uranium 238 | 6.34E1 | N/A | " | 0.5 | 63.2E0 | 41.8 | 75-125 | | | |
| **Batch 8G01003 - 1:1 Water Extract (ICP/ICPMS)** | | | | | | | | | | |
| **Blank (8G01003-BLK1)** | | | | Prepared & Analyzed: 07/01/08 | | | | | | |
| Technetium-99 | <2.30E-5 | 2.30E-5 | ug/g wet | | | | | | | |
| Uranium 238 | <5.64E-4 | 5.64E-4 | " | | | | | | | |
| **Duplicate (8G01003-DUP1)** | | **Source: 0805020-27** | | Prepared & Analyzed: 07/01/08 | | | | | | |
| Technetium-99 | <2.28E-5 | 2.28E-5 | ug/g dry | | ND | | | | 35 | |
| Uranium 238 | 5.59E-4 | 5.59E-4 | " | | ND | | | | 35 | |
| **Post Spike (8G01003-PS1)** | | **Source: 0805020-27** | | Prepared & Analyzed: 07/01/08 | | | | | | |
| Technetium-99 | 5.3E-1 | N/A | ug/L | 0.5 | 20.9E-4 | 106 | 75-125 | | | |
| Uranium 238 | 6.88E-1 | N/A | " | 0.5 | 97.1E-3 | 118 | 75-125 | | | |

# RCRA Metals By PNNL-AGG-415/Water Extract - Quality Control
## Environmental Science Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 8G01004 - 1:1 Water Extract (ICP/ICPMS)** | | | | | | | | | | |
| **Blank (8G01004-BLK1)** | | | | Prepared & Analyzed: 07/01/08 | | | | | | |
| Chromium 52 | <2.06E-3 | 2.06E-3 | ug/g wet | | | | | | | |
| Chromium 53 | <6.40E-3 | 6.40E-3 | " | | | | | | | |
| Copper 63 | <3.48E-3 | 3.48E-3 | " | | | | | | | |
| Copper 65 | <4.84E-3 | 4.84E-3 | " | | | | | | | |
| Selenium 82 | <1.10E-2 | 1.10E-2 | " | | | | | | | |
| Molybdenum 95 | <1.60E-3 | 1.60E-3 | " | | | | | | | |
| Molybdenum 97 | <2.04E-3 | 2.04E-3 | " | | | | | | | |
| Molybdenum 98 | <1.60E-3 | 1.60E-3 | " | | | | | | | |
| Ruthenium 101 | <8.20E-4 | 8.20E-4 | " | | | | | | | |
| Ruthenium 102 | <5.65E-4 | 5.65E-4 | " | | | | | | | |
| Ruthenium 104 | <3.65E-4 | 3.65E-4 | " | | | | | | | |
| Silver 107 | <9.25E-4 | 9.25E-4 | " | | | | | | | |
| Silver 109 | <1.07E-3 | 1.07E-3 | " | | | | | | | |
| Cadmium 111 | <2.95E-4 | 2.95E-4 | " | | | | | | | |
| Cadmium 114 | <6.25E-4 | 6.25E-4 | " | | | | | | | |
| Antimony 121 | <5.40E-4 | 5.40E-4 | " | | | | | | | |
| Lead 206 | <7.20E-4 | 7.20E-4 | " | | | | | | | |
| Lead 208 | <5.60E-4 | 5.60E-4 | " | | | | | | | |
| **LCS (8G01004-BS1)** | | | | Prepared & Analyzed: 07/01/08 | | | | | | |
| Chromium 52 | 5.20E0 | 2.06E-1 | ug/g wet | 5.002 | | 104 | 80-120 | | | |
| Chromium 53 | 5.18E0 | 6.40E-1 | " | 5.002 | | 104 | 80-120 | | | |
| Copper 63 | 4.94E0 | 3.48E-1 | " | 5.002 | | 98.8 | 80-120 | | | |
| Copper 65 | 4.91E0 | 4.84E-1 | " | 5.002 | | 98.2 | 80-120 | | | |
| Selenium 82 | 5.70E0 | 1.10E0 | " | 5.002 | | 114 | 80-120 | | | |
| Molybdenum 95 | 5.05E0 | 1.60E-1 | " | 5.002 | | 101 | 80-120 | | | |
| Molybdenum 97 | 4.97E0 | 2.04E-1 | " | 5.002 | | 99.3 | 80-120 | | | |
| Molybdenum 98 | 5.02E0 | 1.60E-1 | " | 5.002 | | 100 | 80-120 | | | |
| Ruthenium 101 | <8.20E-2 | 8.20E-2 | " | | | | 80-120 | | | |
| Ruthenium 102 | <5.65E-2 | 5.65E-2 | " | | | | 80-120 | | | |
| Ruthenium 104 | <3.65E-2 | 3.65E-2 | " | | | | 80-120 | | | |
| Silver 107 | 4.86E0 | 9.25E-2 | " | 5.002 | | 97.3 | 80-120 | | | |
| Silver 109 | 4.85E0 | 1.07E-1 | " | 5.002 | | 97.1 | 80-120 | | | |
| Cadmium 111 | 5.16E0 | 2.95E-2 | " | 5.002 | | 103 | 80-120 | | | |
| Cadmium 114 | 5.09E0 | 6.25E-2 | " | 5.002 | | 102 | 80-120 | | | |
| Lead 206 | 4.92E0 | 7.20E-2 | " | 5.002 | | 98.5 | 80-120 | | | |
| Lead 208 | 4.85E0 | 5.60E-2 | " | 5.002 | | 96.9 | 80-120 | | | |

# RCRA Metals By PNNL-AGG-415/Water Extract - Quality Control
## Environmental Science Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 8G01004 - 1:1 Water Extract (ICP/ICPMS)** | | | | | | | | | | |
| **Duplicate (8G01004-DUP1)** | | **Source: 0805020-11** | | Prepared & Analyzed: 07/01/08 | | | | | | |
| Chromium 52 | 1.68E-2 | 2.16E-3 | ug/g dry | | 1.23E-2 | | | 30.8 | 35 | |
| Chromium 53 | 1.65E-2 | 6.72E-3 | " | | 1.22E-2 | | | 30.6 | 35 | |
| Copper 63 | 1.27E-1 | 3.65E-3 | " | | 1.25E-1 | | | 1.47 | 35 | |
| Copper 65 | 1.22E-1 | 5.08E-3 | " | | 1.19E-1 | | | 2.18 | 35 | |
| Selenium 82 | <1.16E-2 | 1.16E-2 | " | | ND | | | | 35 | |
| Molybdenum 95 | 4.83E-2 | 1.68E-3 | " | | 6.55E-2 | | | 30.3 | 35 | |
| Molybdenum 97 | 4.54E-2 | 2.15E-3 | " | | 6.21E-2 | | | 31.0 | 35 | |
| Molybdenum 98 | 4.41E-2 | 1.68E-3 | " | | 6.14E-2 | | | 32.7 | 35 | |
| Ruthenium 101 | 1.06E-3 | 8.61E-4 | " | | 1.03E-3 | | | 2.73 | 35 | |
| Ruthenium 102 | <5.93E-4 | 5.93E-4 | " | | ND | | | | 35 | |
| Ruthenium 104 | <3.83E-4 | 3.83E-4 | " | | ND | | | | 35 | |
| Silver 107 | 1.91E-3 | 9.71E-4 | " | | 1.77E-3 | | | 7.58 | 35 | |
| Silver 109 | <1.12E-3 | 1.12E-3 | " | | ND | | | | 35 | |
| Cadmium 111 | 4.02E-4 | 3.10E-4 | " | | 4.68E-4 | | | 15.0 | 35 | |
| Cadmium 114 | <6.56E-4 | 6.56E-4 | " | | ND | | | | 35 | |
| Antimony 121 | 1.58E-3 | 5.67E-4 | " | | 1.76E-3 | | | 10.4 | 35 | |
| Lead 206 | 2.87E-3 | 7.56E-4 | " | | 3.85E-3 | | | 29.1 | 35 | |
| Lead 208 | 2.88E-3 | 5.88E-4 | " | | 3.84E-3 | | | 28.5 | 35 | |
| **Post Spike (8G01004-PS1)** | | **Source: 0805020-11** | | Prepared & Analyzed: 07/01/08 | | | | | | |
| Chromium 52 | 7.77E0 | N/A | ug/L | 5 | 24.5E-1 | 106 | 75-125 | | | |
| Chromium 53 | 7.57E0 | N/A | " | 5 | 24.2E-1 | 103 | 75-125 | | | |
| Copper 63 | 2.91E1 | N/A | " | 5 | 24.8E0 | 84.9 | 75-125 | | | |
| Copper 65 | 2.8E1 | N/A | " | 5 | 23.7E0 | 86.9 | 75-125 | | | |
| Selenium 82 | 7.26E0 | N/A | " | 5 | 12.1E-1 | 121 | 75-125 | | | |
| Molybdenum 95 | 1.8E1 | N/A | " | 5 | 13.E0 | 100 | 75-125 | | | |
| Molybdenum 97 | 1.75E1 | N/A | " | 5 | 12.3E0 | 103 | 75-125 | | | |
| Molybdenum 98 | 1.72E1 | N/A | " | 5 | 12.2E0 | 100 | 75-125 | | | |
| Ruthenium 101 | 5.31E0 | N/A | " | 5 | 20.5E-2 | 102 | 75-125 | | | |
| Ruthenium 102 | 5.14E0 | N/A | " | 5 | 27.6E-3 | 102 | 75-125 | | | |
| Ruthenium 104 | 4.3E0 | N/A | " | 5 | ND | 101 | 75-125 | | | |
| Silver 107 | 4.93E0 | N/A | " | 5 | 35.2E-2 | 91.6 | 75-125 | | | |
| Silver 109 | 4.66E0 | N/A | " | 5 | 76.8E-3 | 91.6 | 75-125 | | | |
| Cadmium 111 | 5.13E0 | N/A | " | 5 | 93.E-3 | 101 | 75-125 | | | |
| Cadmium 114 | 5.07E0 | N/A | " | 5 | 44.8E-3 | 101 | 75-125 | | | |
| Antimony 121 | 5.47E0 | N/A | " | 5 | 34.9E-2 | 102 | 75-125 | | | |
| Lead 206 | 5.95E0 | N/A | " | 5 | 76.5E-2 | 104 | 75-125 | | | |
| Lead 208 | 5.9E0 | N/A | " | 5 | 76.3E-2 | 103 | 75-125 | | | |

# RCRA Metals By PNNL-AGG-415/Water Extract - Quality Control
## Environmental Science Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 8G01005 - 1:1 Water Extract (ICP/ICPMS)** | | | | | | | | | | |
| **Blank (8G01005-BLK1)** | | | | Prepared & Analyzed: 07/01/08 | | | | | | |
| Chromium 52 | <2.06E-3 | 2.06E-3 | ug/g wet | | | | | | | |
| Chromium 53 | <6.40E-3 | 6.40E-3 | " | | | | | | | |
| Copper 63 | <3.48E-3 | 3.48E-3 | " | | | | | | | |
| Copper 65 | <4.84E-3 | 4.84E-3 | " | | | | | | | |
| Selenium 82 | <1.10E-2 | 1.10E-2 | " | | | | | | | |
| Molybdenum 95 | <1.60E-3 | 1.60E-3 | " | | | | | | | |
| Molybdenum 97 | <2.04E-3 | 2.04E-3 | " | | | | | | | |
| Molybdenum 98 | <1.60E-3 | 1.60E-3 | " | | | | | | | |
| Ruthenium 101 | <8.20E-4 | 8.20E-4 | " | | | | | | | |
| Ruthenium 102 | <5.65E-4 | 5.65E-4 | " | | | | | | | |
| Ruthenium 104 | <3.65E-4 | 3.65E-4 | " | | | | | | | |
| Silver 107 | <9.25E-4 | 9.25E-4 | " | | | | | | | |
| Silver 109 | <1.07E-3 | 1.07E-3 | " | | | | | | | |
| Cadmium 111 | <2.95E-4 | 2.95E-4 | " | | | | | | | |
| Cadmium 114 | <6.25E-4 | 6.25E-4 | " | | | | | | | |
| Antimony 121 | <5.40E-4 | 5.40E-4 | " | | | | | | | |
| Lead 206 | <7.20E-4 | 7.20E-4 | " | | | | | | | |
| Lead 208 | <5.60E-4 | 5.60E-4 | " | | | | | | | |
| **LCS (8G01005-BS1)** | | | | Prepared & Analyzed: 07/01/08 | | | | | | |
| Chromium 52 | 4.87E0 | 2.06E-1 | ug/g wet | 4.997 | | 97.4 | 80-120 | | | |
| Chromium 53 | 4.81E0 | 6.40E-1 | " | 4.997 | | 96.3 | 80-120 | | | |
| Copper 63 | 4.64E0 | 3.48E-1 | " | 4.997 | | 92.8 | 80-120 | | | |
| Copper 65 | 4.58E0 | 4.84E-1 | " | 4.997 | | 91.7 | 80-120 | | | |
| Selenium 82 | 5.25E0 | 1.10E0 | " | 4.997 | | 105 | 80-120 | | | |
| Molybdenum 95 | 4.64E0 | 1.60E-1 | " | 4.997 | | 92.8 | 80-120 | | | |
| Molybdenum 97 | 4.62E0 | 2.04E-1 | " | 4.997 | | 92.4 | 80-120 | | | |
| Molybdenum 98 | 4.65E0 | 1.60E-1 | " | 4.997 | | 93.0 | 80-120 | | | |
| Ruthenium 101 | <8.20E-2 | 8.20E-2 | " | | | | 80-120 | | | |
| Ruthenium 102 | <5.65E-2 | 5.65E-2 | " | | | | 80-120 | | | |
| Ruthenium 104 | <3.65E-2 | 3.65E-2 | " | | | | 80-120 | | | |
| Silver 107 | 4.55E0 | 9.25E-2 | " | 4.997 | | 91.0 | 80-120 | | | |
| Silver 109 | 4.53E0 | 1.07E-1 | " | 4.997 | | 90.7 | 80-120 | | | |
| Cadmium 111 | 4.79E0 | 2.95E-2 | " | 4.997 | | 95.9 | 80-120 | | | |
| Cadmium 114 | 4.78E0 | 6.25E-2 | " | 4.997 | | 95.7 | 80-120 | | | |
| Lead 206 | 4.53E0 | 7.20E-2 | " | 4.997 | | 90.6 | 80-120 | | | |
| Lead 208 | 4.48E0 | 5.60E-2 | " | 4.997 | | 89.6 | 80-120 | | | |

# RCRA Metals By PNNL-AGG-415/Water Extract - Quality Control
## Environmental Science Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 8G01005 - 1:1 Water Extract (ICP/ICPMS)** | | | | | | | | | | |
| **Duplicate (8G01005-DUP1)** | | **Source: 0805020-27** | | Prepared & Analyzed: 07/01/08 | | | | | | |
| Chromium 52 | <2.04E-3 | 2.04E-3 | ug/g dry | | ND | | | | 35 | |
| Chromium 53 | <6.34E-3 | 6.34E-3 | " | | ND | | | | 35 | |
| Copper 63 | <3.45E-3 | 3.45E-3 | " | | ND | | | | 35 | |
| Copper 65 | <4.80E-3 | 4.80E-3 | " | | ND | | | | 35 | |
| Selenium 82 | <1.10E-2 | 1.10E-2 | " | | ND | | | | 35 | |
| Molybdenum 95 | 5.85E-2 | 1.59E-3 | " | | 5.95E-2 | | | 1.69 | 35 | |
| Molybdenum 97 | 5.81E-2 | 2.03E-3 | " | | 5.93E-2 | | | 1.97 | 35 | |
| Molybdenum 98 | 5.82E-2 | 1.59E-3 | " | | 5.94E-2 | | | 2.06 | 35 | |
| Ruthenium 101 | <8.13E-4 | 8.13E-4 | " | | ND | | | | 35 | |
| Ruthenium 102 | <5.60E-4 | 5.60E-4 | " | | ND | | | | 35 | |
| Ruthenium 104 | <3.62E-4 | 3.62E-4 | " | | ND | | | | 35 | |
| Silver 107 | <9.17E-4 | 9.17E-4 | " | | ND | | | | 35 | |
| Silver 109 | <1.06E-3 | 1.06E-3 | " | | ND | | | | 35 | |
| Cadmium 111 | <2.92E-4 | 2.92E-4 | " | | ND | | | | 35 | |
| Cadmium 114 | <6.20E-4 | 6.20E-4 | " | | ND | | | | 35 | |
| Antimony 121 | <5.35E-4 | 5.35E-4 | " | | ND | | | | 35 | |
| Lead 206 | <7.14E-4 | 7.14E-4 | " | | ND | | | | 35 | |
| Lead 208 | <5.55E-4 | 5.55E-4 | " | | ND | | | | 35 | |
| **Post Spike (8G01005-PS1)** | | **Source: 0805020-27** | | Prepared & Analyzed: 07/01/08 | | | | | | |
| Chromium 52 | 5.41E0 | N/A | ug/L | 5 | 33.4E-3 | 108 | 75-125 | | | |
| Chromium 53 | 5.43E0 | N/A | " | 5 | 20.7E-2 | 104 | 75-125 | | | |
| Copper 63 | 5.14E0 | N/A | " | 5 | 36.9E-3 | 102 | 75-125 | | | |
| Copper 65 | 5.17E0 | N/A | " | 5 | 18.9E-2 | 99.7 | 75-125 | | | |
| Selenium 82 | 6.58E0 | N/A | " | 5 | 52.6E-2 | 121 | 75-125 | | | |
| Molybdenum 95 | 1.69E1 | N/A | " | 5 | 11.9E0 | 101 | 75-125 | | | |
| Molybdenum 97 | 1.68E1 | N/A | " | 5 | 11.8E0 | 99.5 | 75-125 | | | |
| Molybdenum 98 | 1.7E1 | N/A | " | 5 | 11.9E0 | 103 | 75-125 | | | |
| Ruthenium 101 | 5.11E0 | N/A | " | 5 | 21.4E-3 | 102 | 75-125 | | | |
| Ruthenium 102 | 5.09E0 | N/A | " | 5 | 46.2E-4 | 102 | 75-125 | | | |
| Ruthenium 104 | 5.14E0 | N/A | " | 5 | 60.6E-3 | 102 | 75-125 | | | |
| Silver 107 | 4.84E0 | N/A | " | 5 | 88.4E-4 | 96.6 | 75-125 | | | |
| Silver 109 | 4.83E0 | N/A | " | 5 | 95.1E-4 | 96.4 | 75-125 | | | |
| Cadmium 111 | 5.33E0 | N/A | " | 5 | 44.3E-3 | 106 | 75-125 | | | |
| Cadmium 114 | 5.17E0 | N/A | " | 5 | 11.3E-3 | 103 | 75-125 | | | |
| Antimony 121 | 5.E0 | N/A | " | 5 | 88.7E-3 | 98.3 | 75-125 | | | |
| Lead 206 | 5.04E0 | N/A | " | 5 | 11.3E-3 | 101 | 75-125 | | | |
| Lead 208 | 4.98E0 | N/A | " | 5 | 16.9E-3 | 99.2 | 75-125 | | | |

# RCRA Metals By PNNL-AGG-415/Acid Extract - Quality Control

## Environmental Science Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 8G02005 - ASTM D 5198 (ICP/ICPMS)** | | | | | | | | | | |
| **Blank (8G02005-BLK1)** | | | | Prepared & Analyzed: 07/02/08 | | | | | | |
| Selenium 82 | <3.28E-1 | 3.28E-1 | ug/g wet | | | | | | | |
| Molybdenum 95 | <6.72E-2 | 6.72E-2 | " | | | | | | | |
| Molybdenum 97 | <6.16E-2 | 6.16E-2 | " | | | | | | | |
| Molybdenum 98 | <2.55E-2 | 2.55E-2 | " | | | | | | | |
| Ruthenium 101 | <1.29E-2 | 1.29E-2 | " | | | | | | | |
| Ruthenium 102 | <7.80E-3 | 7.80E-3 | " | | | | | | | |
| Ruthenium 104 | <2.18E-2 | 2.18E-2 | " | | | | | | | |
| Cadmium 111 | <1.41E-2 | 1.41E-2 | " | | | | | | | |
| Cadmium 114 | <3.20E-3 | 3.20E-3 | " | | | | | | | |
| Antimony 121 | <2.28E-2 | 2.28E-2 | " | | | | | | | |
| **LCS (8G02005-BS1)** | | | | Prepared: 07/02/08 Analyzed: 07/03/08 | | | | | | |
| Selenium 82 | 5.18E0 | 4.61E-1 | ug/g wet | 5.000 | | 104 | 80-120 | | | |
| Molybdenum 95 | 5.17E0 | 9.44E-2 | " | 5.000 | | 103 | 80-120 | | | |
| Molybdenum 97 | 5.14E0 | 8.65E-2 | " | 5.000 | | 103 | 80-120 | | | |
| Molybdenum 98 | 5.19E0 | 3.58E-2 | " | 5.000 | | 104 | 80-120 | | | |
| Ruthenium 101 | <1.81E-2 | 1.81E-2 | " | | | | 80-120 | | | |
| Ruthenium 102 | <1.10E-2 | 1.10E-2 | " | | | | 80-120 | | | |
| Ruthenium 104 | <3.06E-2 | 3.06E-2 | " | | | | 80-120 | | | |
| Cadmium 111 | 5.13E0 | 1.98E-2 | " | 5.000 | | 103 | 80-120 | | | |
| Cadmium 114 | 5.10E0 | 4.49E-3 | " | 5.000 | | 102 | 80-120 | | | |
| Antimony 121 | 4.98E0 | 3.20E-2 | " | 5.000 | | 99.6 | 80-120 | | | |
| **Duplicate (8G02005-DUP1)** | | **Source: 0805020-11** | | Prepared & Analyzed: 07/02/08 | | | | | | |
| Selenium 82 | <1.32E0 | 1.32E0 | ug/g dry | | ND | | | | 35 | |
| Molybdenum 95 | <2.71E-1 | 2.71E-1 | " | | 3.03E-1 | | | | 35 | |
| Molybdenum 97 | <2.48E-1 | 2.48E-1 | " | | 2.91E-1 | | | | 35 | |
| Molybdenum 98 | 2.12E-1 | 1.03E-1 | " | | 2.78E-1 | | | 27.0 | 35 | |
| Ruthenium 101 | <5.19E-2 | 5.19E-2 | " | | ND | | | | 35 | |
| Ruthenium 102 | <3.14E-2 | 3.14E-2 | " | | ND | | | | 35 | |
| Ruthenium 104 | <8.78E-2 | 8.78E-2 | " | | ND | | | | 35 | |
| Cadmium 111 | 9.98E-2 | 5.68E-2 | " | | 8.95E-2 | | | 10.9 | 35 | |
| Cadmium 114 | 7.07E-2 | 1.29E-2 | " | | 6.85E-2 | | | 3.18 | 35 | |
| Antimony 121 | <9.18E-2 | 9.18E-2 | " | | ND | | | | 35 | |

# RCRA Metals By PNNL-AGG-415/Acid Extract - Quality Control

## Environmental Science Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 8G02005 - ASTM D 5198 (ICP/ICPMS)** | | | | | | | | | | |
| **Post Spike (8G02005-PS1)** | **Source: 0805020-11** | | | Prepared & Analyzed: 07/02/08 | | | | | | |
| Selenium 82 | 5.96E0 | N/A | ug/L | 5 | 34.7E-2 | 112 | 75-125 | | | |
| Molybdenum 95 | 5.93E0 | N/A | " | 5 | 76.2E-2 | 103 | 75-125 | | | |
| Molybdenum 97 | 5.86E0 | N/A | " | 5 | 73.2E-2 | 103 | 75-125 | | | |
| Molybdenum 98 | 5.95E0 | N/A | " | 5 | 69.9E-2 | 105 | 75-125 | | | |
| Ruthenium 101 | 4.88E0 | N/A | " | 5 | 32.5E-4 | 97.6 | 75-125 | | | |
| Ruthenium 102 | 4.85E0 | N/A | " | 5 | ND | 97.5 | 75-125 | | | |
| Ruthenium 104 | 4.29E0 | N/A | " | 5 | ND | 96.4 | 75-125 | | | |
| Cadmium 111 | 5.09E0 | N/A | " | 5 | 22.5E-2 | 97.4 | 75-125 | | | |
| Cadmium 114 | 5.07E0 | N/A | " | 5 | 17.2E-2 | 98 | 75-125 | | | |
| Antimony 121 | 4.87E0 | N/A | " | 5 | 31.E-3 | 96.7 | 75-125 | | | |
| **Batch 8G02007 - ASTM D 5198 (ICP/ICPMS)** | | | | | | | | | | |
| **Blank (8G02007-BLK1)** | | | | Prepared & Analyzed: 07/02/08 | | | | | | |
| Selenium 82 | <3.28E-1 | 3.28E-1 | ug/g wet | | | | | | | |
| Molybdenum 95 | <6.72E-2 | 6.72E-2 | " | | | | | | | |
| Molybdenum 97 | <6.16E-2 | 6.16E-2 | " | | | | | | | |
| Molybdenum 98 | <2.55E-2 | 2.55E-2 | " | | | | | | | |
| Ruthenium 101 | <1.29E-2 | 1.29E-2 | " | | | | | | | |
| Ruthenium 102 | <7.80E-3 | 7.80E-3 | " | | | | | | | |
| Ruthenium 104 | <2.18E-2 | 2.18E-2 | " | | | | | | | |
| Cadmium 111 | <1.41E-2 | 1.41E-2 | " | | | | | | | |
| Cadmium 114 | <3.20E-3 | 3.20E-3 | " | | | | | | | |
| Antimony 121 | <2.28E-2 | 2.28E-2 | " | | | | | | | |
| **LCS (8G02007-BS1)** | | | | Prepared: 07/02/08 Analyzed: 07/03/08 | | | | | | |
| Selenium 82 | 5.20E0 | 4.58E-1 | ug/g wet | 5.000 | | 104 | 80-120 | | | |
| Molybdenum 95 | 5.16E0 | 9.38E-2 | " | 5.000 | | 103 | 80-120 | | | |
| Molybdenum 97 | 5.22E0 | 8.60E-2 | " | 5.000 | | 104 | 80-120 | | | |
| Molybdenum 98 | 5.27E0 | 3.56E-2 | " | 5.000 | | 105 | 80-120 | | | |
| Ruthenium 101 | <1.80E-2 | 1.80E-2 | " | | | | 80-120 | | | |
| Ruthenium 102 | <1.09E-2 | 1.09E-2 | " | | | | 80-120 | | | |
| Ruthenium 104 | <3.04E-2 | 3.04E-2 | " | | | | 80-120 | | | |
| Cadmium 111 | 5.21E0 | 1.97E-2 | " | 5.000 | | 104 | 80-120 | | | |
| Cadmium 114 | 5.20E0 | 4.47E-3 | " | 5.000 | | 104 | 80-120 | | | |
| Antimony 121 | 5.05E0 | 3.18E-2 | " | 5.000 | | 101 | 80-120 | | | |

# RCRA Metals By PNNL-AGG-415/Acid Extract - Quality Control

## Environmental Science Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 8G02007 - ASTM D 5198 (ICP/ICPMS)** | | | | | | | | | | |
| **Duplicate (8G02007-DUP1)** | | **Source: 0805020-27** | | Prepared & Analyzed: 07/02/08 | | | | | | |
| Selenium 82 | <1.20E0 | 1.20E0 | ug/g dry | | ND | | | | 35 | |
| Molybdenum 95 | <2.47E-1 | 2.47E-1 | " | | 2.66E-1 | | | | 35 | |
| Molybdenum 97 | 2.35E-1 | 2.26E-1 | " | | 2.64E-1 | | | 11.5 | 35 | |
| Molybdenum 98 | 2.34E-1 | 9.36E-2 | " | | 2.56E-1 | | | 8.67 | 35 | |
| Ruthenium 101 | <4.74E-2 | 4.74E-2 | " | | ND | | | | 35 | |
| Ruthenium 102 | <2.86E-2 | 2.86E-2 | " | | ND | | | | 35 | |
| Ruthenium 104 | <8.00E-2 | 8.00E-2 | " | | ND | | | | 35 | |
| Cadmium 111 | 5.30E-2 | 5.18E-2 | " | | ND | | | | 35 | |
| Cadmium 114 | 3.84E-2 | 1.17E-2 | " | | 3.67E-2 | | | 4.63 | 35 | |
| Antimony 121 | <8.37E-2 | 8.37E-2 | " | | ND | | | | 35 | |
| **Post Spike (8G02007-PS1)** | | **Source: 0805020-27** | | Prepared & Analyzed: 07/02/08 | | | | | | |
| Selenium 82 | 5.79E0 | N/A | ug/L | 5 | 12.2E-3 | 116 | 75-125 | | | |
| Molybdenum 95 | 5.93E0 | N/A | " | 5 | 71.4E-2 | 104 | 75-125 | | | |
| Molybdenum 97 | 5.94E0 | N/A | " | 5 | 70.8E-2 | 105 | 75-125 | | | |
| Molybdenum 98 | 5.93E0 | N/A | " | 5 | 68.6E-2 | 105 | 75-125 | | | |
| Ruthenium 101 | 4.97E0 | N/A | " | 5 | ND | 99.6 | 75-125 | | | |
| Ruthenium 102 | 4.98E0 | N/A | " | 5 | ND | 99.9 | 75-125 | | | |
| Ruthenium 104 | 4.69E0 | N/A | " | 5 | ND | 98.7 | 75-125 | | | |
| Cadmium 111 | 5.26E0 | N/A | " | 5 | 13.4E-2 | 102 | 75-125 | | | |
| Cadmium 114 | 5.18E0 | N/A | " | 5 | 98.5E-3 | 102 | 75-125 | | | |
| Antimony 121 | 5.1E0 | N/A | " | 5 | 20.E-3 | 102 | 75-125 | | | |

# Total Alpha Total Beta/Acid Extract - Quality Control
## Environmental Science Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 8G02015 - ASTM D 5198 (RadChem)** | | | | | | | | | | |
| **Blank (8G02015-BLK1)** | | | | Prepared & Analyzed: 07/02/08 | | | | | | |
| Gross Beta | <1.30E1 | 13.0E0 | pCi/g wet | | | | | | | |
| Gross Alpha | <5.25E0 | 52.5E-1 | " | | | | | | | |
| **Blank (8G02015-BLK2)** | | | | Prepared & Analyzed: 07/02/08 | | | | | | |
| Gross Beta | <1.30E1 | 13.0E0 | pCi/g wet | | | | | | | |
| Gross Alpha | <5.25E0 | 52.5E-1 | " | | | | | | | |
| **Duplicate (8G02015-DUP1)** | | **Source: 0805020-11** | | Prepared & Analyzed: 07/02/08 | | | | | | |
| Gross Beta | <1.30E1 | 13.0E0 | pCi/g dry | | ND | | | | 35 | |
| Gross Alpha | <5.25E0 | 52.5E-1 | " | | ND | | | | 35 | |
| **Duplicate (8G02015-DUP2)** | | **Source: 0805020-27** | | Prepared & Analyzed: 07/02/08 | | | | | | |
| Gross Beta | <1.30E1 | 13.0E0 | pCi/g dry | | ND | | | | 35 | |
| Gross Alpha | <5.25E0 | 52.5E-1 | " | | ND | | | | 35 | |

# Total Alpha Total Beta/Water Extract - Quality Control
## Environmental Science Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 8G02003 - 1:1 Water Extract (RadChem)** | | | | | | | | | | |
| **Blank (8G02003-BLK1)** | | | | Prepared & Analyzed: 07/01/08 | | | | | | |
| Gross Beta | <1.21E1 | 12.1E0 | pCi/g wet | | | | | | | |
| Gross Alpha | <5.56E0 | 55.6E-1 | " | | | | | | | |
| **Blank (8G02003-BLK2)** | | | | Prepared & Analyzed: 07/01/08 | | | | | | |
| Gross Beta | <1.21E1 | 12.1E0 | pCi/g wet | | | | | | | |
| Gross Alpha | <5.56E0 | 55.6E-1 | " | | | | | | | |
| **Duplicate (8G02003-DUP1)** | | **Source: 0805020-11** | | Prepared & Analyzed: 07/01/08 | | | | | | |
| Gross Beta | <1.21E1 | 12.1E0 | pCi/g dry | | ND | | | | 35 | |
| Gross Alpha | <5.56E0 | 55.6E-1 | " | | ND | | | | 35 | |
| **Duplicate (8G02003-DUP2)** | | **Source: 0805020-27** | | Prepared & Analyzed: 07/01/08 | | | | | | |
| Gross Beta | <1.21E1 | 12.1E0 | pCi/g dry | | ND | | | | 35 | |
| Gross Alpha | <5.56E0 | 55.6E-1 | " | | ND | | | | 35 | |

| Pacific Northwest National Laboratory | **GEOLOGIC LOG** | Boring/Well No C6394 | Depth 9.0-27.5 | Date 6/18/08 | Sheet 1 of 4 |
|---|---|---|---|---|---|
| | | Location 200-UPR-81 / C-farm direct push | Project 46482 | | |

Logged by Michelle Valenta (Print) Michelle Valenta (Sign) | Drilling Contractor

Reviewed by (Print) (Sign) Date | Driller

Lithologic Class. Scheme Folk - Wentworth | Procedure | Rev | Drill Method

| DEPTH (ft) | SAMPLES TYPE | SAMPLES ID NUMBER | MOISTURE | GRAPHIC LOG C | Z | S | G | LITHOLOGIC DESCRIPTION (sediment class, range in particle size, maximum particle size, mafic %, sorting, roundness, color, consolidation, reaction to 10% HCl, structure, fabric, and any other characteristics) | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | S - fine to med sand - 95%, 5% Z, well-sorted. max. part = med sand. loose. 20% mafic. 2.5Y 4/2 (dk. grayish brown)! strong rxn to HCl. | |
| 9.0 | C | B1VJ54C | M | | | | | (g)S slightly gravelly sand 90% fine to med sand, 5% G 5% Z. max. | |
| 9.5 | C | B1VJ54B | M | | | | | part = 10mm. G - fine to med. pebbles, sub-rounded, 90% basalt. S - 20% mafic. loose. mod-sorted. 2.5Y 4/2 (dk. grayish brown). | |
| | | | | | | | | Strong rxn to HCl. | |
| | | | | | | | | same as above. max. G = 7mm. | |
| 15 | C | B1VJ55C | M | | | | | S - 3% G, 92% fine to med sand, loose. mod sorted. G - max = 11mm. | |
| 15.5 | C | B1VJ55B | M | | | | | G - 90% basalt, sub-round, fine pebbles. 2.5Y 5/2 (grayish brown) | |
| | | | | | | | | (g)S - slightly gravelly sand. 10% G, 85% fine to coarse sand, 5% Z | |
| 16.5 | G | B1VJ55 | M | | | | | max part = 1mm. G - v fine to fine pebble, 70% basalt, sub.ang-to | |
| | | | | | | | | sub-round. loose. mod-sorted. 2.5Y 4/2 (dk. grayish brown) | |
| | | | | | | | | same as above. max. part = 8mm. | |
| 26 | C | B1VJ56C | M | | | | | S - 95% fine to v.coarse sand 5% Z. mod-sorted trace gravel. max. | |
| 26.5 | C | B1VJ56B | M | | | | | part - 10mm. G - sub round, basalt, v. fine to med pebbles. some | |
| 27 | C | B1VJ56A | M | | | | | weak consol. 2.5Y 5/2 (grayish brown) weak rxn to HCl | |
| | | | | | | | | (m)S - slightly muddy sand! trace G, 90% v. fine to coarse S, 10% Z. | |
| | | | | | | | | mod-sorted max. part = 5mm. 2.5Y 4/2 (dk. grayish brown). | |
| | | | | | | | | weak to no rxn to HCl. weak consol. primarily loose. | |
| | | | | | | | | (m) g S - slightly muddy gravelly sand. 15% G, 75% v fine to v coarse | |
| | | | | | | | | sand, 10% Z. poorly sorted. G - max = 10mm, sub-round to sub. ang, | |
| | | | | | | | | 40% basalt, v. fine to med. pebbles. S - 30% mafic. 2.5Y 4/2 (dk. | |
| | | | | | | | | grayish brown. loose. weak rxn to HCl. | |

W = Wet, M = Moist, SM = Slightly Moist, D = Dry

| Pacific Northwest National Laboratory | **GEOLOGIC LOG** | Boring/Well No C6394 | Depth 27.5-61 | Date 6/18/08 | Sheet 2 of 4 |
|---|---|---|---|---|---|
| | | Location 200-UPR-81 / C-farm direct push | Project 46482 | | |

Logged by Michelle Valenta (Print) Michelle Valenta (Sign) | Drilling Contractor

Reviewed by (Print) (Sign) Date | Driller

Lithologic Class. Scheme Folk Wentworth | Procedure | Rev | Drill Method

| DEPTH (ft) | SAMPLES TYPE | SAMPLES ID NUMBER | MOISTURE | GRAPHIC LOG C Z S G | LITHOLOGIC DESCRIPTION (sediment class, range in particle size, maximum particle size, mafic %, sorting, roundness, color, consolidation, reaction to 10% HCl, structure, fabric, and any other characteristics) | COMMENTS |
|---|---|---|---|---|---|---|
| 27.5 | G | BIVJ56 | M | | same as above. max part = 5mm. G - 25%, S - 70%, 5% Z. G - 70% basalt | |
| 42 | C | BIVJ58C | M | | (m)S - Slightly muddy sand trace G 90% v. fine to med. sand, 10% Z, max part = 2mm, S - 20% mafic. loose. mod-sorted. 2.5Y 4/2 (dark grayish brown). | |
| 42.5 | C | BIVJ58B | M | | same as above. max part = coarse sand strong rxn to HCl. | |
| 43 | C | BIVJ58A | W | | same as above. (more wet) | |
| 43.5 | G | BIVJ58 | M | | (m) g S - Slightly muddy gravelly sand, 20% G, 70% v. fine to coarse S, 10% Z. max. part = 10mm. G - sub-round to round. muddy-sand est. basalt. loose. poorly-sorted. 2.5Y 4/2 (dk. grayish brown) | |
| 59 | C | BIVJ59C | SM | | Si fine to v. coarse sand, trace fines. well-sorted. max part = v. coarse sand S - 10-20% mafic. loose. 2.5Y 4/3 (olive brown). mod. rxn to HCl. | |
| 59.5 | C | BIVJ59B | SM | | S med. to v. coarse sand. well-sorted. max. part = v. coarse sand. S - 30% mafic. loose. 2.5Y 5/3 (lt. olive brown). weak rxn to HCl. | |
| 60 | C | BIVJ59A | SM | | same as above. trace G. max = 3mm. 2.5Y 5/2 to 6/2 (grayish brown to lt. brownish gray). weak to no rxn to HCl. | |
| 60.5 | G | BIVJ59 | SM | | same as above. trace G, max = 3mm, 2.5Y 6/2 (lt. brownish gray). | |

W = Wet, M = Moist, SM = Slightly Moist, D = Dry

| Pacific Northwest National Laboratory | **GEOLOGIC LOG** | Boring/Well No C6394 | Depth 75-97 | Date 6/18/08 | Sheet 3 of 4 |
|---|---|---|---|---|---|
| | | Location 200-UPR-81 / C-farm direct push | Project 46482 | | |

Logged by Michelle Valenta (Print) Michelle Valenta (Sign) | (Print) (Sign)

Reviewed by (Print) (Sign) Date

Lithologic Class. Scheme Folk - Wentworth Procedure Rev

Drilling Contractor

Driller

Drill Method

| DEPTH (ft) | SAMPLES TYPE | SAMPLES ID NUMBER | MOISTURE | GRAPHIC LOG C | Z | S | G | LITHOLOGIC DESCRIPTION — sediment class, range in particle size, maximum particle size, mafic %, sorting, roundness, color, consolidation, reaction to 10% HCl, structure, fabric, and any other characteristics | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|
| 75 | C | B1VJ60C | SM | | | | | S - 95% med to V. coarse S, 5% Z. mod-sorted. max. part = V. coarse sand. S - 10% mafic. 2.5Y 5/2 to 6/2 (grayish brown to lt. brownish gray). some-slight compaction - primarily loose. weak rxn to HCl | |
| 75.5 | C | B1VJ60B | M | | | | | S - fine to med sand. 95%, 5% Z. well-sorted. max. part = coarse S. | |
| 76 | C | B1VJ60A | SM | | | | | S - 10-20% mafic. 2.5Y 5/3 (lt. olive brown). mod rxn to HCl. | |
| 76.5 | G | B1VJ60 | D | | | | | S - fine to V. coarse sand, trace G + Z. max. part = 3mm. mod-sorted. | |
| | | | | | | | | S - 10% mafic. 2.5Y 5/2 to 6/2. loose. some consol. in fines. | |
| | | | | | | | | gs - gravelly sand. 15% G, 85% V. fine to V. coarse sand. max. part = 3mm. mod sorted. G - V. fine pebbles, 60% basalt, sub ang. loose. 2.5Y 7/2 (lt gray). | |
| 95 | C | B1VJ61C | SM | | | | | (95 - slightly gravelly sand. 15% G, 85% fine to V. coarse sand. max. part = 4mm. mod-sorted. G - ang to sub-round, 50% basalt, V. fine to fine pebbles. loose. 2.5Y 6/2 (lt. brownish gray). S - | |
| 95.5 | C | B1VJ61B | SM | | | | | 20% mafic. mod. rxn to HCl. | |
| 96 | C | B1VJ61A | | | | | | gs gravelly sand. 30% G, 70% fine to V. coarse sand. max part = 5mm. | |
| 96.5 | G | B1VJ61 | D | | | | | G - V fine to fine pebbles, 70% basalt, ang to sub-round. mod-sorted. loose. 2.5Y 6/2 (lt-brownish gray). S - 30% mafic. weak rxn HCl. | |
| | | | | | | | | same as above. max = 4mm. 20% G, 80% S. weak to no rxn to HCl | |
| | | | | | | | | same as above. max - 4mm. | |

W = Wet, M = Moist, SM = Slightly Moist, D = Dry

| Pacific Northwest National Laboratory | **GEOLOGIC LOG** | Boring/Well No C6394 | Depth 133-172 | Date 4/18/08 | Sheet 4 of 4 |
|---|---|---|---|---|---|
| | | Location 200-UPR-81 C-farm direct push | Project A6482 | | |

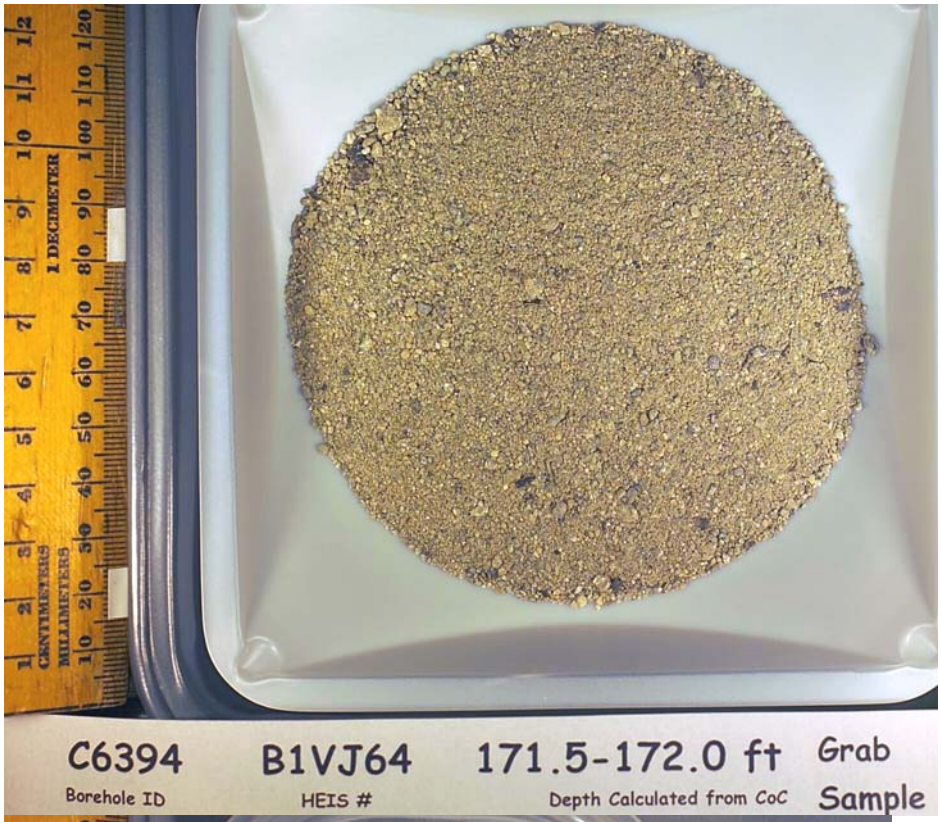
Logged by Michelle Valente (Print) (Sign) (Print) — Drilling Contractor

Reviewed by (Print) (Sign) Date — Driller

Lithologic Class. Scheme Folk-Wentworth — Procedure — Rev — Drill Method

| DEPTH (ft) | SAMPLES TYPE | SAMPLES ID NUMBER | MOISTURE | GRAPHIC LOG C Z S G | LITHOLOGIC DESCRIPTION (sediment class, range in particle size, maximum particle size, mafic %, sorting, roundness, color, consolidation, reaction to 10% HCl, structure, fabric, and any other characteristics) | COMMENTS |
|---|---|---|---|---|---|---|
| 133 | C | BIVJ62C | M | | S- v.fine to med. sand 95%, 5% Z. max. part = coarse sand. well-sorted. 2.5Y 5/2 (grayish brown). loose - some compac. S- 10% mafic. mod. rxn to HCl. | |
| 133.5 | C | BIVJ62B | SM | | S- v.fine to med. sand. max. part = med sand. well-sorted. S- 10-20% mafic. 2.5Y 5/2 (grayish brown). loose. - one mod. compacted piece. weak rxn to HCl. | |
| 134 | C | BIVJ62A | SM | | same as above. | |
| 134.5 | G | BIVJ62 | D | | S- v. fine to v. coarse sand trace G. max. part = 2-3mm mod-sorted. S- 10% mafic. loose. 2.5Y 6/2 (lt. brownish gray) | |
| 170 | C | BIVJ64C | SM | | S- v.fine to coarse sand. 95%, 5% Z. max. part = v. coarse sand. mod-sorted. S- 20% mafic. mod. consol. 2.5Y 5/2 (grayish brown). weak rxn to HCl. | |
| 170.5 | C | BIVJ64B | SM | | S- v.fine v. coarse sand. trace fines, max. part = v. coarse sand. S- 20% mafic. same mod. consol, primarily loose 2.5Y 5/2 (grayish brown). mod-sorted. no rxn to HCl. | |
| 171 | C | BIVJ64A | SM | | same as above. | |
| 171.5 | C | BIVJ64 | D | | S- 5% G, 95% v.fine to v. coarse sand, mod-sorted. max. part = 3mm-G- v.fine pebbles, 50% basalt, ang to subang. S- 10% mafic. loose. 2.5Y 7/2 (lt-gray). | |

W = Wet, M = Moist, SM = Slightly Moist, D = Dry


C6394
Borehole ID
B1VJ64
HEIS #
171.5-172.0 ft
Depth Calculated from CoC
Grab
Sample


C6394
Borehole ID
B1VJ54-C
HEIS #-Liner Modifier
9.0-9.5 ft
Depth Calculated from CoC
Core ↑
Sample


C6394
Borehole ID
B1VJ54-B
HEIS #-Liner Modifier
9.5-10.0 ft
Depth Calculated from CoC
Core
Sample


C6394
Borehole ID
B1VJ55-C
HEIS #-Liner Modifier
15.0-15.5 ft
Depth Calculated from CoC
Core
Sample


C6394 — Borehole ID
B1VJ55-B — HEIS #-Liner Modifier
15.5-16.0 ft — Depth Calculated from CoC
Core ↑ Sample


C6394 — Borehole ID
B1VJ55 — HEIS #
16.5-17.0 ft — Depth Calculated from CoC
Grab Sample


C6394
Borehole ID
B1VJ56-C
HEIS #-Liner Modifier
26.0-26.5 ft
Depth Calculated from CoC
Core
Sample


C6394
Borehole ID
B1VJ56-B
HEIS #-Liner Modifier
26.5-27.0 ft
Depth Calculated from CoC
Core
Sample

| C6394 | B1VJ56-A | 27.0-27.5 ft | Core ↑ |
|---|---|---|---|
| Borehole ID | HEIS #-Liner Modifier | Depth Calculated from CoC | Sample |

| C6394 | B1VJ56 | 27.5-28.0 ft | Grab |
|---|---|---|---|
| Borehole ID | HEIS # | Depth Calculated from CoC | Sample |


C6394
Borehole ID
B1VJ58-C
HEIS #-Liner Modifier
42.0-42.5 ft
Depth Calculated from CoC
Core
Sample


C6394
Borehole ID
B1VJ58-B
HEIS #-Liner Modifier
42.5-43.0 ft
Depth Calculated from CoC
Core
Sample

| C6394 | B1VJ58-A | 43.0-43.5 ft | Core ↑ |
|---|---|---|---|
| Borehole ID | HEIS #-Liner Modifier | Depth Calculated from CoC | Sample |

| C6394 | B1VJ58 | 43.5-44.0 ft | Grab |
|---|---|---|---|
| Borehole ID | HEIS # | Depth Calculated from CoC | Sample |


C6394
Borehole ID
B1VJ59-C
HEIS #-Liner Modifier
59.0-59.5 ft
Depth Calculated from CoC
Core
Sample


C6394
Borehole ID
B1VJ59-B
HEIS #-Liner Modifier
59.5-60.0 ft
Depth Calculated from CoC
Core
Sample

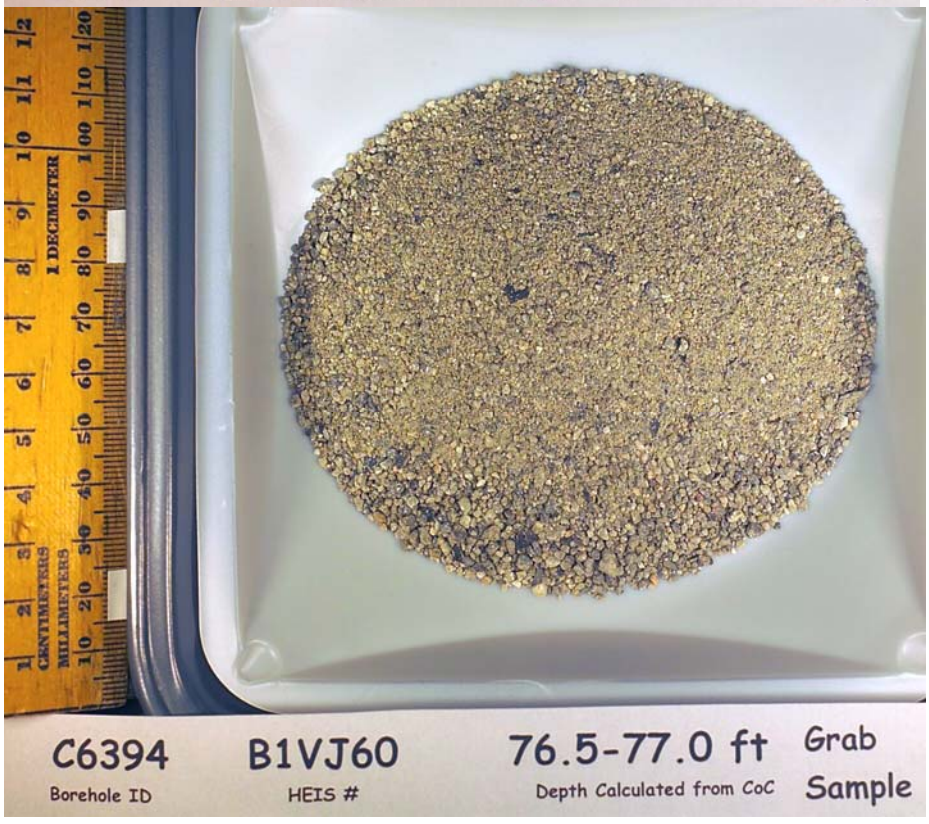

C6394
Borehole ID
B1VJ59-A
HEIS #-Liner Modifier
60.0-60.5 ft
Depth Calculated from CoC
Core
Sample


C6394
Borehole ID
B1VJ59
HEIS #
60.5-61.0 ft
Depth Calculated from CoC
Grab
Sample


C6394
Borehole ID
B1VJ60-C
HEIS #-Liner Modifier
75.0-75.5 ft
Depth Calculated from CoC
Core
Sample


C6394
Borehole ID
B1VJ60-B
HEIS #-Liner Modifier
75.5-76.0 ft
Depth Calculated from CoC
Core
Sample

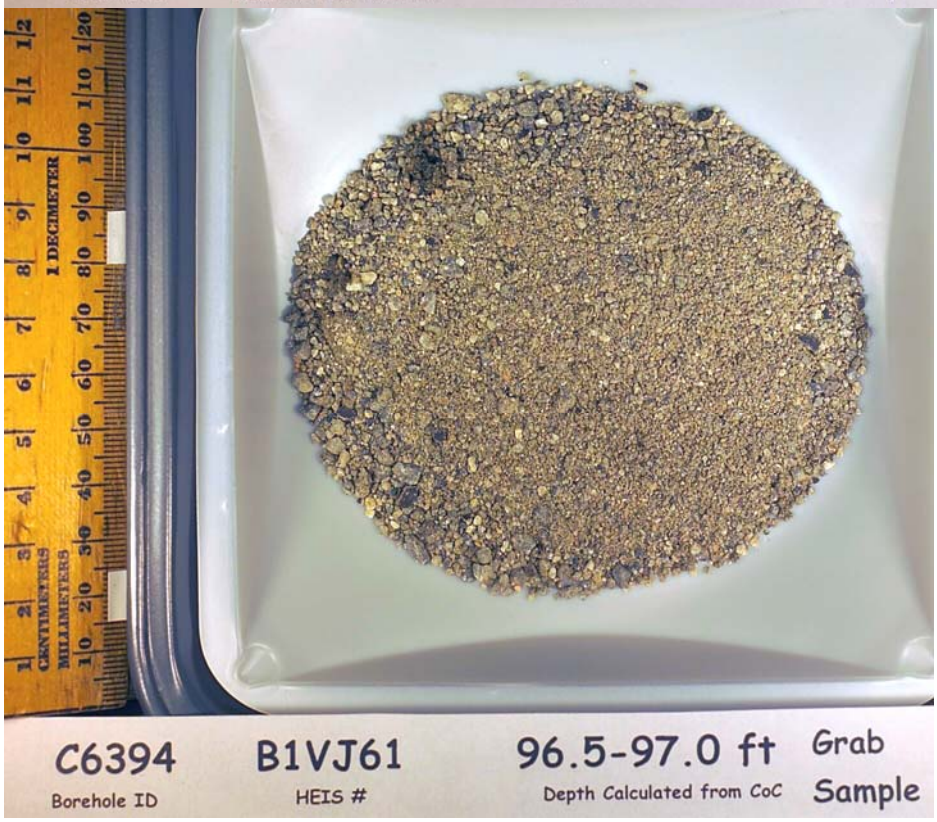

C6394
Borehole ID
B1VJ60-A
HEIS #-Liner Modifier
76.0-76.5 ft
Depth Calculated from CoC
Core
Sample


C6394
Borehole ID
B1VJ60
HEIS #
76.5-77.0 ft
Depth Calculated from CoC
Grab
Sample


C6394
Borehole ID
B1VJ61-C
HEIS #-Liner Modifier
95.0-95.5 ft
Depth Calculated from CoC
Core ↑
Sample


C6394
Borehole ID
B1VJ61-B
HEIS #-Liner Modifier
95.5-96.0 ft
Depth Calculated from CoC
Core ↑
Sample


C6394
Borehole ID
B1VJ61-A
HEIS #-Liner Modifier
96.0-96.5 ft
Depth Calculated from CoC
Core
Sample


C6394
Borehole ID
B1VJ61
HEIS #
96.5-97.0 ft
Depth Calculated from CoC
Grab
Sample


| C6394 | B1VJ62-C | 133.0-133.5 ft | Core ↑ |
|---|---|---|---|
| Borehole ID | HEIS #-Liner Modifier | Depth Calculated from CoC | Sample |


| C6394 | B1VJ62-B | 133.5-134.0 ft | Core ↑ |
|---|---|---|---|
| Borehole ID | HEIS #-Liner Modifier | Depth Calculated from CoC | Sample |

| C6394 | B1VJ62-A | 134.0-134.5 ft | Core ↑ |
|---|---|---|---|
| Borehole ID | HEIS #-Liner Modifier | Depth Calculated from CoC | Sample |

| C6394 | B1VJ62 | 134.5-135.0 ft | Grab |
|---|---|---|---|
| Borehole ID | HEIS # | Depth Calculated from CoC | Sample |


C6394
Borehole ID
B1VJ64-C
HEIS #-Liner Modifier
170.0-170.5 ft
Depth Calculated from CoC
Core ↑
Sample


C6394
Borehole ID
B1VJ64-B
HEIS #-Liner Modifier
170.5-171.0 ft
Depth Calculated from CoC
Core ↑
Sample


C6394
Borehole ID
B1VJ64-A
HEIS #-Liner Modifier
171.0-171.5 ft
Depth Calculated from CoC
Core
Sample

CH2M Hill Group

**CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST**

V08-003-001

PAGE 1 OF 1

| COLLECTOR | COMPANY CONTACT | TELEPHONE NO. | PROJECT COORDINATOR | PRICE CODE | DATA TURNAROUND |
|---|---|---|---|---|---|
| FM Hall | WATSON, DJ | | TRENT, SJ | 8N | |
| **SAMPLING LOCATION** | **PROJECT DESIGNATION** | | **SAF NO.** | **AIR QUALITY** | 45 Days / 45 Days |
| Borehole | "C" Tank Farm Soil Sampling - Boreholes C6391 & C6406 | | V08-003 | | |
| **ICE CHEST NO.** | **FIELD LOGBOOK NO.** | **ACTUAL SAMPLE DEPTH** | **COA** | **METHOD OF SHIPMENT** | |
| | | 9'-11' | | Govt. Vehicle | |
| **SHIPPED TO** | **OFFSITE PROPERTY NO.** | | **BILL OF LADING/AIR BILL NO.** | | |
| PNNL Building 325 | | | | | |

MATRIX*
OL = OTHER LIQUID
OS = OTHER SOLID
S = SOIL
W = WATER

**SPECIAL HANDLING AND/OR STORAGE**

**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)

| SAMPLE NO. | LAB ID | MATRIX* | SAMPLE DATE | SAMPLE TIME | NO./TYPE CONTAINER(S) | ANALYSIS | PRESERVATION |
|---|---|---|---|---|---|---|---|
| ~~B1VJ54~~ | | ~~S~~ | | | ~~1X250mL aG~~ | ~~SEE ITEM (1) IN SPECIAL INSTRUCTIONS~~ | ~~Cool~4C~~ |
| ~~B1VJ54A~~ | | ~~S~~ | | | ~~1X1000g Liner~~ | ~~SEE ITEM (1) IN SPECIAL INSTRUCTIONS~~ | ~~Cool~4C~~ |
| B1VJ54B | | S | 5-13-08 | 1025 | 1X1000g Liner | SEE ITEM (1) IN SPECIAL INSTRUCTIONS | Cool~4C |
| B1VJ54C | | S | " | " | 1X1000g Liner | SEE ITEM (1) IN SPECIAL INSTRUCTIONS | Cool~4C |

**CHAIN OF POSSESSION**

**SIGN/ PRINT NAMES**

| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME |
|---|---|---|---|
| FM Hall | 1320 5-15-08 | DSmith | 1320 5-15-08 |
| | | | |
| | | | |
| | | | |

**SPECIAL INSTRUCTIONS**

(1)IC Anions - 9056 (Tier 1); TOC - 9060 (Tier 1) {TOC, TOTCARB} Conductivity - 9050 (Tier 1); pH (Soil) - 9045 (Tier 1); GAMMA ENERGY ANALYSIS (Tier 1); Actinides ICPMS (Tier 1) {Tc-99}

| | | | | |
|---|---|---|---|---|
| **LABORATORY SECTION** | **RECEIVED BY** | | **TITLE** | **DATE/TIME** |
| **FINAL SAMPLE DISPOSITION** | **DISPOSAL METHOD** | | **DISPOSED BY** | **DATE/TIME** |

**CH2M Hill Group** | **CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST** | **V08-003-002** | **PAGE 1 OF 1**

| | | | | | |
|---|---|---|---|---|---|
| **COLLECTOR** F M HALL | **COMPANY CONTACT** WATSON, DJ | **TELEPHONE NO.** | **PROJECT COORDINATOR** TRENT, SJ | **PRICE CODE** 8N | **DATA TURNAROUND** |
| **SAMPLING LOCATION** Borehole | **PROJECT DESIGNATION** "C" Tank Farm Soil Sampling - Boreholes C6391 & C6406 | | **SAF NO.** V08-003 | **AIR QUALITY** | **45 Days / 45 Days** |
| **ICE CHEST NO.** | **FIELD LOGBOOK NO.** | **ACTUAL SAMPLE DEPTH** 15'-17' | **COA** | **METHOD OF SHIPMENT** Govt. Vehicle | |
| **SHIPPED TO** PNNL Building 325 | **OFFSITE PROPERTY NO.** | | **BILL OF LADING/AIR BILL NO.** | | |

MATRIX*
OL = OTHER LIQUID
OS = OTHER SOLID
S = SOIL
W = WATER

**SPECIAL HANDLING AND/OR STORAGE**

**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)

| SAMPLE NO. | LAB ID | MATRIX* | SAMPLE DATE | SAMPLE TIME | NO./TYPE CONTAINER(S) | ANALYSIS | PRESERVATION |
|---|---|---|---|---|---|---|---|
| B1VJ55 | | S | 5-13-08 | 1130 | 1X250mL aG | SEE ITEM (1) IN SPECIAL INSTRUCTIONS | Cool~4C |
| ~~B1VJ55A~~ | | S | | | 1X1000g Liner | SEE ITEM (1) IN SPECIAL INSTRUCTIONS | Cool~4C |
| B1VJ55B | | S | | | 1X1000g Liner | SEE ITEM (1) IN SPECIAL INSTRUCTIONS | Cool~4C |
| B1VJ55C | | S | 5-13-08 | 1130 | 1X1000g Liner | SEE ITEM (1) IN SPECIAL INSTRUCTIONS | Cool~4C |

**CHAIN OF POSSESSION** | **SIGN/ PRINT NAMES**

| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME |
|---|---|---|---|
| FM HALL | 1320 5-15-08 | DSmith | 1320 5-15-08 |
| | | | |
| | | | |
| | | | |

**SPECIAL INSTRUCTIONS**
(1)IC Anions - 9056 (Tier 1); TOC - 9060 (Tier 1) {TOC, TOTCARB} Conductivity - 9050 (Tier 1); pH (Soil) - 9045 (Tier 1); GAMMA ENERGY ANALYSIS (Tier 1); Actinides ICPMS (Tier 1) {Tc-99}

| | | | | |
|---|---|---|---|---|
| **LABORATORY SECTION** | **RECEIVED BY** | | **TITLE** | **DATE/TIME** |
| **FINAL SAMPLE DISPOSITION** | **DISPOSAL METHOD** | | **DISPOSED BY** | **DATE/TIME** |

**CH2M Hill Group** | **CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST** | **V08-003-003** | **PAGE 1 OF 1**

| | | | | | |
|---|---|---|---|---|---|
| **COLLECTOR** F M Hall | **COMPANY CONTACT** WATSON, DJ | **TELEPHONE NO.** | **PROJECT COORDINATOR** TRENT, SJ | **PRICE CODE** 8N | **DATA TURNAROUND** 45 Days / 45 Days |
| **SAMPLING LOCATION** Borehole | **PROJECT DESIGNATION** "C" Tank Farm Soil Sampling - Boreholes C6391 & C6406 | | **SAF NO.** V08-003 | **AIR QUALITY** | |
| **ICE CHEST NO.** | **FIELD LOGBOOK NO.** | **ACTUAL SAMPLE DEPTH** 26' - 28' | **COA** | **METHOD OF SHIPMENT** Govt. Vehicle | |
| **SHIPPED TO** PNNL Building 325 | **OFFSITE PROPERTY NO.** | | **BILL OF LADING/AIR BILL NO.** | | |

MATRIX*
OL = OTHER LIQUID
OS = OTHER SOLID
S = SOIL
W = WATER

**SPECIAL HANDLING AND/OR STORAGE**

**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)

| SAMPLE NO. | LAB ID | MATRIX* | SAMPLE DATE | SAMPLE TIME | NO./TYPE CONTAINER(S) | ANALYSIS | PRESERVATION |
|---|---|---|---|---|---|---|---|
| B1VJ56 | | S | 5-14-08 | 1200 | 1X250mL aG | SEE ITEM (1) IN SPECIAL INSTRUCTIONS | Cool~4C |
| B1VJ56A | | S | | | 1X1000g Liner | SEE ITEM (1) IN SPECIAL INSTRUCTIONS | Cool~4C |
| B1VJ56B | | S | | | 1X1000g Liner | SEE ITEM (1) IN SPECIAL INSTRUCTIONS | Cool~4C |
| B1VJ56C | | S | | | 1X1000g Liner | SEE ITEM (1) IN SPECIAL INSTRUCTIONS | Cool~4C |

**CHAIN OF POSSESSION** | **SIGN/ PRINT NAMES**

| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME |
|---|---|---|---|
| F M Hall | 1320 5-15-08 | D Smith | 1320 5-15-08 |
| | | | |
| | | | |
| | | | |

**SPECIAL INSTRUCTIONS**
(1)IC Anions - 9056 (Tier 1); TOC - 9060 (Tier 1) {TOC, TOTCARB} Conductivity - 9050 (Tier 1); pH (Soil) - 9045 (Tier 1); GAMMA ENERGY ANALYSIS (Tier 1); Actinides ICPMS (Tier 1) {Tc-99}

| | | | | |
|---|---|---|---|---|
| **LABORATORY SECTION** | **RECEIVED BY** | | **TITLE** | **DATE/TIME** |
| **FINAL SAMPLE DISPOSITION** | **DISPOSAL METHOD** | | **DISPOSED BY** | **DATE/TIME** |

CH2M Hill Group

# CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

V08-003-005



| COLLECTOR | COMPANY CONTACT | TELEPHONE NO. | PROJECT COORDINATOR | PRICE CODE | 8N | DATA TURNAROUND |
|---|---|---|---|---|---|---|
| KB Hulse | WATSON, DJ | | TRENT, SJ | AIR QUALITY | | 45 Days / 45 Days |
| **SAMPLING LOCATION** | **PROJECT DESIGNATION** | | **SAF NO.** | | | |
| Borehole C6394 | "C" Tank Farm Soil Sampling - Boreholes C6391 & C6406 | | V08-003 | | | |
| **ICE CHEST NO.** | **FIELD LOGBOOK NO.** | **ACTUAL SAMPLE DEPTH** | **COA** | **METHOD OF SHIPMENT** | | |
| | | 42-44 | | Govt. Vehicle | | |
| **SHIPPED TO** | **OFFSITE PROPERTY NO.** | | **BILL OF LADING/AIR BILL NO.** | | | |
| PNNL Building 325 | | | | | | |

MATRIX*
OL = OTHER LIQUID
OS = OTHER SOLID
S = SOIL
W = WATER

**SPECIAL HANDLING AND/OR STORAGE**

**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)

| SAMPLE NO. | LAB ID | MATRIX* | SAMPLE DATE | SAMPLE TIME | NO./TYPE CONTAINER(S) | ANALYSIS | PRESERVATION |
|---|---|---|---|---|---|---|---|
| B1VJ58 | | S | 5/19/08 | 0945 | 1X250mL ~~agp~~ | SEE ITEM (1) IN SPECIAL INSTRUCTIONS | Cool~4C |
| B1VJ58A | | S | " | " | 1X1000g Liner | SEE ITEM (1) IN SPECIAL INSTRUCTIONS | Cool~4C |
| B1VJ58B | | S | " | " | 1X1000g Liner | SEE ITEM (1) IN SPECIAL INSTRUCTIONS | Cool~4C |
| B1VJ58C | | S | " | " | 1X1000g Liner | SEE ITEM (1) IN SPECIAL INSTRUCTIONS | Cool~4C |

**CHAIN OF POSSESSION** — **SIGN/ PRINT NAMES**

| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME |
|---|---|---|---|
| KB Hulse KB Hulse | 5/19/08 1400 | DSmith | 5.19.08 1400 |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME |
| | | | |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME |
| | | | |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME |
| | | | |

**SPECIAL INSTRUCTIONS**

(1)IC Anions - 9056 (Tier 1); TOC - 9060 (Tier 1) {TOC, TOTCARB} Conductivity - 9050 (Tier 1); pH (Soil) - 9045 (Tier 1); GAMMA ENERGY ANALYSIS (Tier 1); Actinides ICPMS (Tier 1) {Tc-99}

| | | | | |
|---|---|---|---|---|
| **LABORATORY SECTION** | **RECEIVED BY** | | **TITLE** | **DATE/TIME** |
| **FINAL SAMPLE DISPOSITION** | **DISPOSAL METHOD** | | **DISPOSED BY** | **DATE/TIME** |

**CH2M Hill Group** | **CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST** | **V08-003-006** | **PAGE 1 OF 1**

**COLLECTOR**: KB Hulse

**COMPANY CONTACT**: WATSON, DJ

**TELEPHONE NO.**:

**PROJECT COORDINATOR**: TRENT, SJ

**PRICE CODE**: 8N

**DATA TURNAROUND**: 45 Days / 45 Days

**SAMPLING LOCATION**: Borehole C6394

**PROJECT DESIGNATION**: "C" Tank Farm Soil Sampling - Boreholes C6391 & C6406

**SAF NO.**: V08-003

**AIR QUALITY**:

**ICE CHEST NO.**: C10

**FIELD LOGBOOK NO.**:

**ACTUAL SAMPLE DEPTH**: 59-61'

**COA**:

**METHOD OF SHIPMENT**: Govt. Vehicle

**SHIPPED TO**: PNNL Building 325

**OFFSITE PROPERTY NO.**:

**BILL OF LADING/AIR BILL NO.**:

MATRIX*
OL = OTHER LIQUID
OS = OTHER SOLID
S = SOIL
W = WATER

**SPECIAL HANDLING AND/OR STORAGE**

**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)

| SAMPLE NO. | LAB ID | MATRIX* | SAMPLE DATE | SAMPLE TIME | NO./TYPE CONTAINER(S) | ANALYSIS | PRESERVATION |
|---|---|---|---|---|---|---|---|
| B1VJ59 | | S | 5/22/08 | 1100 | 1X250mL ~~glass~~ P | SEE ITEM (1) IN SPECIAL INSTRUCTIONS | Cool~4C |
| B1VJ59A | | S | | | 1X1000g Liner | SEE ITEM (1) IN SPECIAL INSTRUCTIONS | Cool~4C |
| B1VJ59B | | S | | | 1X1000g Liner | SEE ITEM (1) IN SPECIAL INSTRUCTIONS | Cool~4C |
| B1VJ59C | | S | | | 1X1000g Liner | SEE ITEM (1) IN SPECIAL INSTRUCTIONS | Cool~4C |

**CHAIN OF POSSESSION** | **SIGN/ PRINT NAMES**

| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME |
|---|---|---|---|
| KB Hulse | 5/28/08 1445 | C. Irwin | 5/28/08 1445 |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME |
| | | | |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME |
| | | | |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME |
| | | | |

**SPECIAL INSTRUCTIONS**

(1)IC Anions - 9056 (Tier 1); TOC - 9060 (Tier 1) {TOC, TOTCARB} Conductivity - 9050 (Tier 1); pH (Soil) - 9045 (Tier 1); GAMMA ENERGY ANALYSIS (Tier 1); Actinides ICPMS (Tier 1) {Tc-99}

**LABORATORY SECTION** — RECEIVED BY | TITLE | DATE/TIME

**FINAL SAMPLE DISPOSITION** — DISPOSAL METHOD | DISPOSED BY | DATE/TIME

CH2M Hill Group

# CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

V08-003-007 PAGE 1 OF 1

| | | | |
|---|---|---|---|
| **COLLECTOR** K. B. Hulse | **COMPANY CONTACT** WATSON, DJ | **TELEPHONE NO.** | **PROJECT COORDINATOR** TRENT, SJ |
| **SAMPLING LOCATION** Borehole C6394 | **PROJECT DESIGNATION** "C" Tank Farm Soil Sampling - Boreholes C6391 & C6406 | | **SAF NO.** V08-003 |
| **ICE CHEST NO.** C-10 | **FIELD LOGBOOK NO.** | **ACTUAL SAMPLE DEPTH** 75-77 | **COA** |
| **SHIPPED TO** PNNL Building 325 | **OFFSITE PROPERTY NO.** | | **BILL OF LADING/AIR BILL NO.** |

**PRICE CODE** 8N **DATA TURNAROUND** 45 Days / 45 Days

**AIR QUALITY** ☐

**METHOD OF SHIPMENT** Govt. Vehicle

MATRIX*
OL = OTHER LIQUID
OS = OTHER SOLID
S = SOIL
W = WATER

**SPECIAL HANDLING AND/OR STORAGE**

**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)

| SAMPLE NO. | LAB ID | MATRIX* | SAMPLE DATE | SAMPLE TIME | NO./TYPE CONTAINER(S) | ANALYSIS | PRESERVATION |
|---|---|---|---|---|---|---|---|
| B1VJ60 | | S | 5/23/08 | 1000 | 1X250mL ~~aG~~ P | SEE ITEM (1) IN SPECIAL INSTRUCTIONS | Cool~4C |
| B1VJ60A | | S | " | " | 1X1000g Liner | SEE ITEM (1) IN SPECIAL INSTRUCTIONS | Cool~4C |
| B1VJ60B | | S | " | " | 1X1000g Liner | SEE ITEM (1) IN SPECIAL INSTRUCTIONS | Cool~4C |
| B1VJ60C | | S | " | " | 1X1000g Liner | SEE ITEM (1) IN SPECIAL INSTRUCTIONS | Cool~4C |

## CHAIN OF POSSESSION

| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME |
|---|---|---|---|
| K. B. Hulse | 5-28-08 1445 | C. Tunn | 5/28/08 1445 |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME |

**SIGN/ PRINT NAMES**

**SPECIAL INSTRUCTIONS**
(1)IC Anions - 9056 (Tier 1); TOC - 9060 (Tier 1) {TOC, TOTCARB} Conductivity - 9050 (Tier 1); pH (Soil) - 9045 (Tier 1); GAMMA ENERGY ANALYSIS (Tier 1); Actinides ICPMS (Tier 1) {Tc-99}

**LABORATORY SECTION** RECEIVED BY ____ TITLE ____ DATE/TIME ____

**FINAL SAMPLE DISPOSITION** DISPOSAL METHOD ____ DISPOSED BY ____ DATE/TIME ____

CH2M Hill Group

# CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

V08-003-008 | PAGE 1 OF 1

| | | | |
|---|---|---|---|
| **COLLECTOR** KB Hulse | **COMPANY CONTACT** WATSON, DJ | **TELEPHONE NO.** | **PROJECT COORDINATOR** TRENT, SJ |
| **PRICE CODE** 8N | **DATA TURNAROUND** 45 Days / 45 Days | | |
| **SAMPLING LOCATION** Borehole C6394 | **PROJECT DESIGNATION** "C" Tank Farm Soil Sampling - Boreholes C6391 & C6406 | **SAF NO.** V08-003 | **AIR QUALITY** |
| **ICE CHEST NO.** C10 | **FIELD LOGBOOK NO.** | **ACTUAL SAMPLE DEPTH** 95-97 | **COA** |
| **METHOD OF SHIPMENT** Govt. Vehicle | **SHIPPED TO** PNNL Building 325 | **OFFSITE PROPERTY NO.** | **BILL OF LADING/AIR BILL NO.** |

MATRIX*
OL = OTHER LIQUID
OS = OTHER SOLID
S = SOIL
W = WATER

**SPECIAL HANDLING AND/OR STORAGE**

**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)

| SAMPLE NO. | LAB ID | MATRIX* | SAMPLE DATE | SAMPLE TIME | NO./TYPE CONTAINER(S) | ANALYSIS | PRESERVATION |
|---|---|---|---|---|---|---|---|
| B1VJ61 | | S | 5/27/08 | 1330 | 1X250mL GP | SEE ITEM (1) IN SPECIAL INSTRUCTIONS | Cool~4C |
| B1VJ61A | | S | | | 1X1000g Liner | SEE ITEM (1) IN SPECIAL INSTRUCTIONS | Cool~4C |
| B1VJ61B | | S | | | 1X1000g Liner | SEE ITEM (1) IN SPECIAL INSTRUCTIONS | Cool~4C |
| B1VJ61C | | S | | | 1X1000g Liner | SEE ITEM (1) IN SPECIAL INSTRUCTIONS | Cool~4C |

**CHAIN OF POSSESSION** — **SIGN/ PRINT NAMES**

| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME |
|---|---|---|---|
| KB Hulse / KB Hulse | 5/28/08 1445 | C. Ivori | 5/28/08 1445 |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME |
| | | | |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME |
| | | | |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME |

**SPECIAL INSTRUCTIONS**
(1)IC Anions - 9056 (Tier 1); TOC - 9060 (Tier 1) {TOC, TOTCARB} Conductivity - 9050 (Tier 1); pH (Soil) - 9045 (Tier 1); GAMMA ENERGY ANALYSIS (Tier 1); Actinides ICPMS (Tier 1) {Tc-99}

**LABORATORY SECTION** — RECEIVED BY | TITLE | DATE/TIME

**FINAL SAMPLE DISPOSITION** — DISPOSAL METHOD | DISPOSED BY | DATE/TIME

**CH2M Hill Group** | **CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST** | **V08-003-009** | **PAGE 1 OF 1**

| COLLECTOR | COMPANY CONTACT | TELEPHONE NO. | PROJECT COORDINATOR | PRICE CODE 8N | DATA TURNAROUND |
|---|---|---|---|---|---|
| FM HALL | WATSON, DJ | | TRENT, SJ | | |
| **SAMPLING LOCATION** | **PROJECT DESIGNATION** | | **SAF NO.** | **AIR QUALITY** | **45 Days / 45 Days** |
| Borehole | "C" Tank Farm Soil Sampling - Boreholes C6391 & C6406 | | V08-003 | | |
| **ICE CHEST NO.** | **FIELD LOGBOOK NO.** | **ACTUAL SAMPLE DEPTH** | **COA** | **METHOD OF SHIPMENT** | |
| C 10 | | 133'-135' | | Govt. Vehicle | |
| **SHIPPED TO** | **OFFSITE PROPERTY NO.** | | **BILL OF LADING/AIR BILL NO.** | | |
| PNNL Building 325 | | | | | |

MATRIX*
OL = OTHER LIQUID
OS = OTHER SOLID
S = SOIL
W = WATER

**SPECIAL HANDLING AND/OR STORAGE**

**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)

| SAMPLE NO. | LAB ID | MATRIX* | SAMPLE DATE | SAMPLE TIME | NO./TYPE CONTAINER(S) | ANALYSIS | PRESERVATION |
|---|---|---|---|---|---|---|---|
| B1VJ62 | | S | 5-29-08 | 1010 | 1X250mL aG | SEE ITEM (1) IN SPECIAL INSTRUCTIONS | Cool~4C |
| B1VJ62A | | S | " | " | 1X1000g Liner | SEE ITEM (1) IN SPECIAL INSTRUCTIONS | Cool~4C |
| B1VJ62B | | S | " | " | 1X1000g Liner | SEE ITEM (1) IN SPECIAL INSTRUCTIONS | Cool~4C |
| B1VJ62C | | S | " | " | 1X1000g Liner | SEE ITEM (1) IN SPECIAL INSTRUCTIONS | Cool~4C |

**CHAIN OF POSSESSION** | **SIGN/ PRINT NAMES**

| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME |
|---|---|---|---|
| FM HALL | 1355 5-29-08 | M. Valenta M. Valk | 1355 5-29-08 |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME |

**SPECIAL INSTRUCTIONS**
(1)IC Anions - 9056 (Tier 1); TOC - 9060 (Tier 1) {TOC, TOTCARB} Conductivity - 9050 (Tier 1); pH (Soil) - 9045 (Tier 1); GAMMA ENERGY ANALYSIS (Tier 1); Actinides ICPMS (Tier 1) {Tc-99}

| | | | | |
|---|---|---|---|---|
| **LABORATORY SECTION** | **RECEIVED BY** | **TITLE** | | **DATE/TIME** |
| **FINAL SAMPLE DISPOSITION** | **DISPOSAL METHOD** | **DISPOSED BY** | | **DATE/TIME** |

CH2M Hill Group

# CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

V08-003-011 PAGE 1 OF 1

| | | | |
|---|---|---|---|
| **COLLECTOR** FM Hall | **COMPANY CONTACT** WATSON, DJ | **TELEPHONE NO.** | **PROJECT COORDINATOR** TRENT, SJ |
| **PRICE CODE** 8N | **DATA TURNAROUND** 45 Days / 45 Days | | |
| **SAMPLING LOCATION** Borehole | **PROJECT DESIGNATION** "C" Tank Farm Soil Sampling - Boreholes C6391 & C6406 | **SAF NO.** V08-003 | **AIR QUALITY** |
| **ICE CHEST NO.** SAWS-107 | **FIELD LOGBOOK NO.** | **ACTUAL SAMPLE DEPTH** 170'-172' | **COA** |
| **METHOD OF SHIPMENT** Govt. Vehicle | **SHIPPED TO** PNNL Building 325 | **OFFSITE PROPERTY NO.** | **BILL OF LADING/AIR BILL NO.** |

MATRIX*
OL = OTHER LIQUID
OS = OTHER SOLID
S = SOIL
W = WATER

**SPECIAL HANDLING AND/OR STORAGE**

**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)

| SAMPLE NO. | LAB ID | MATRIX* | SAMPLE DATE | SAMPLE TIME | NO./TYPE CONTAINER(S) | ANALYSIS | PRESERVATION |
|---|---|---|---|---|---|---|---|
| B1VJ64 | | S | 6-9-08 | 1340 | 1X250mL aG | SEE ITEM (1) IN SPECIAL INSTRUCTIONS | Cool~4C |
| B1VJ64A | | S | | | 1X1000g Liner | SEE ITEM (1) IN SPECIAL INSTRUCTIONS | Cool~4C |
| B1VJ64B | | S | | | 1X1000g Liner | SEE ITEM (1) IN SPECIAL INSTRUCTIONS | Cool~4C |
| B1VJ64C | | S | | | 1X1000g Liner | SEE ITEM (1) IN SPECIAL INSTRUCTIONS | Cool~4C |

**CHAIN OF POSSESSION** / **SIGN/ PRINT NAMES**

| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME |
|---|---|---|---|
| FM Hall | 6-9-08 1340 | D Smith | 6-9-08 1340 |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME |

**SPECIAL INSTRUCTIONS**
(1)IC Anions - 9056 (Tier 1); TOC - 9060 (Tier 1) {TOC, TOTCARB} Conductivity - 9050 (Tier 1); pH (Soil) - 9045 (Tier 1); GAMMA ENERGY ANALYSIS (Tier 1); Actinides ICPMS (Tier 1) {Tc-99}

**LABORATORY SECTION** RECEIVED BY ____ TITLE ____ DATE/TIME ____

**FINAL SAMPLE DISPOSITION** DISPOSAL METHOD ____ DISPOSED BY ____ DATE/TIME ____

**CH2M Hill Group** | **CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST** | **V08-004-002** | **PAGE 1 OF 1**

| COLLECTOR | COMPANY CONTACT | TELEPHONE NO. | PROJECT COORDINATOR | PRICE CODE | DATA TURNAROUND |
|---|---|---|---|---|---|
| HALL, FM | SYDNOR, HA | | TRENT, SJ | 8N | |
| **SAMPLING LOCATION** | **PROJECT DESIGNATION** | | **SAF NO.** | **AIR QUALITY** | 45 Days / 45 Days |
| C6394 | "C" Tank Farm Soil Sampling - Boreholes C6391 & C6406 - QC Samples | | V08-004 | | |
| **ICE CHEST NO.** | **FIELD LOGBOOK NO.** | **ACTUAL SAMPLE DEPTH** | **COA** | **METHOD OF SHIPMENT** | |
| GWS-019 | | | | GOVERNMENT VEHICLE | |
| **SHIPPED TO** | **OFFSITE PROPERTY NO.** | | **BILL OF LADING/AIR BILL NO.** | | |
| PNNL Building 325 | N/A | | N/A | | |

MATRIX*
OL = OTHER LIQUID
OS = OTHER SOLID
S = SOIL
W = WATER

**SPECIAL HANDLING AND/OR STORAGE**

**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)

| SAMPLE NO. | LAB ID | MATRIX* | SAMPLE DATE | SAMPLE TIME | NO./TYPE CONTAINER(S) | ANALYSIS | PRESERVATION |
|---|---|---|---|---|---|---|---|
| B1W155 | | S | 6-2-08 | 0930 | 1X1000mL aG | SEE ITEM (1) IN SPECIAL INSTRUCTIONS | Cool~4C |

**CHAIN OF POSSESSION** | **SIGN/ PRINT NAMES**

| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME |
|---|---|---|---|
| F.M. Hall | 6-9-08 1340 | D Smith | 6-9-08 1340 |
| | | | |
| | | | |
| | | | |

**SPECIAL INSTRUCTIONS**
(1)IC Anions - 9056 (Tier 1); TOC - 9060 (Tier 1) {TOC, TOTCARB} Conductivity - 9050 (Tier 1); pH (Soil) - 9045 (Tier 1); GAMMA ENERGY ANALYSIS (Tier 1); Actinides ICPMS (Tier 1) {Tc-99}

| | | | | |
|---|---|---|---|---|
| **LABORATORY SECTION** | **RECEIVED BY** | | **TITLE** | **DATE/TIME** |
| **FINAL SAMPLE DISPOSITION** | **DISPOSAL METHOD** | | **DISPOSED BY** | **DATE/TIME** |